

On-line melléklet 1. Molnár István: Az idegenfajú génátvitelt segítő strukturális genom
értékezéshez. A melléklet tartalmazza az Aegilops biuncialis MvGB382 x MvGB642 kétszülős F2 s
7M) rendelt kapcsoltsági csoportjait (LG1-LG16), a kapcsoltsági csoportokat alkotó összes térképez
értékeivel. A térképezési populációra vonatkozó adatok, valamint a térképszerkesztés részletei me

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26.08 D4	mab24562	1M	LG16
26.08 D4	mab24825	1M	LG16
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26.08 D4	mab21847	1M	LG16
26.08 D4	mab20268	1M	LG16
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26.08 D4	mab18984	1M	LG16
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26.08 D4	mab25009	1M	LG16
26.08 D4	mab22061	1M	LG16
26.08 D4	mab22002	1M	LG16
26.08 D4	mab19899	1M	LG16
26.08 D4	mab27866	1M	LG16
26.08 D4	mab18554	1M	LG16
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26.08 D4	mab22842	1M	LG16
26.08 D4	mab16593	1M	LG16

26.08 D4	mab25033	1M	LG16
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26.08 Cod	mab3645	1M	LG16
26.08 Cod	mab2809	1M	LG16
26.08 Cod	mab3250	1M	LG16
26.08 Cod	mab4785	1M	LG16
26.08 D4	mab25196	1M	LG16
26.08 D4	mab26690	1M	LG16
26.08 D4	mab20834	1M	LG16
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26.08 D4	mab23237	1M	LG16
26.08 D4	mab27438	1M	LG16
26.08 D4	mab17724	1M	LG16
26.08 D4	mab26122	1M	LG16
26.08 D4	mab19871	1M	LG16
26.91 Cod	mab5091	1M	LG16
26.91 Cod	mab4076	1M	LG16
26.91 Cod	mab2829	1M	LG16
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27.73 Cod	mab5655	1M	LG16
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27.73 D4	mab19355	1M	LG16
27.73 D4	mab24636	1M	LG16
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29.14 Cod	mab2811	1M	LG16
29.14 Cod	mab980	1M	LG16
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29.14 Cod	mab2813	1M	LG16
29.14 Cod	mab3289	1M	LG16
29.14 Cod	mab5350	1M	LG16
29.14 Cod	mab4407	1M	LG16
29.14 Cod	mab3603	1M	LG16
29.14 Cod	mab3219	1M	LG16
29.37 Cod	mab28070	1M	LG16
29.37 Cod	mab3854	1M	LG16

29.37 Cod	mab2766	1M	LG16
29.37 Cod	mab1730	1M	LG16
29.37 Cod	mab3563	1M	LG16
29.37 Cod	mab5302	1M	LG16
29.37 Cod	mab10728	1M	LG16
29.6 D5	mab9576	1M	LG16
29.6 D5	mab7236	1M	LG16
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29.6 D5	mab5987	1M	LG16
29.6 D5	mab7286	1M	LG16
29.6 D5	mab14071	1M	LG16
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30.3 D5	mab6023	1M	LG16
30.3 D5	mab13346	1M	LG16
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30.3 D5	mab13383	1M	LG16
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30.76 Cod	mab3456	1M	LG16
30.76 Cod	mab25	1M	LG16
30.76 Cod	mab26	1M	LG16
30.99 Cod	mab3304	1M	LG16
30.99 Cod	mab4485	1M	LG16
30.99 Cod	mab2790	1M	LG16
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31.22 D5	mab9284	1M	LG16
31.22 Cod	mab5590	1M	LG16
31.22 D5	mab5917	1M	LG16
31.92 D4	mab27453	1M	LG16
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31.92 D4	mab19394	1M	LG16
31.92 D4	mab27427	1M	LG16
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31.92 D4	mab27936	1M	LG16
31.92 D4	mab22167	1M	LG16
31.92 D4	mab23411	1M	LG16
31.92 D4	mab23749	1M	LG16
31.92 D4	mab5794	1M	LG16
31.92 D4	mab27299	1M	LG16
31.92 D4	mab23367	1M	LG16
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31.92 D4	mab18238	1M	LG16
31.92 D4	mab16602	1M	LG16
31.92 D4	mab21552	1M	LG16
31.92 D4	mab27516	1M	LG16
31.92 D4	mab19935	1M	LG16
31.92 D4	mab27266	1M	LG16
31.92 D4	mab24318	1M	LG16
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31.92 D4	mab16657	1M	LG16
31.92 D4	mab18789	1M	LG16
31.92 D4	mab23027	1M	LG16
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31.92 D4	mab18693	1M	LG16
31.92 D4	mab20412	1M	LG16
31.92 D5	mab7608	1M	LG16
31.92 Cod	mab4288	1M	LG16
31.92 D4	mab28119	1M	LG16
31.92 D4	mab26433	1M	LG16
31.92 D4	mab16659	1M	LG16
31.92 D4	mab21778	1M	LG16
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31.92 D4	mab26928	1M	LG16
31.92 D4	mab21322	1M	LG16
31.92 D4	mab25119	1M	LG16

31.92 D4	mab26900	1M	LG16
31.92 D4	mab27137	1M	LG16
31.92 D4	mab18772	1M	LG16
31.92 D4	mab20501	1M	LG16
31.92 D4	mab26317	1M	LG16
31.92 D4	mab20028	1M	LG16
31.92 D4	mab16610	1M	LG16
33.58 Cod	mab4664	1M	LG16
33.58 D4	mab22085	1M	LG16
33.58 D4	mab24256	1M	LG16
33.58 D4	mab18000	1M	LG16
33.58 D5	mab7636	1M	LG16
33.58 Cod	mab4083	1M	LG16
33.58 D4	mab27754	1M	LG16
33.58 Cod	mab6508	1M	LG16

LG13

cM		Marker	Kr.	Kapcsoltsági csoport (LG)	Marker szekvencia
	0 S	Cod	mab983 1U	LG13	TGCAGCTTCCAAGGCA
	0 A	D5	mab7074 1U	LG13	TGCAGCGACAGCATGC
	0 A	D5	mab8286 1U	LG13	TGCAGGGCAGCAGTTCC
	0 AB	D5	mab114881U	LG13	TGCAGCGGCAGATTCCG
	0 A	D5	mab8097 1U	LG13	TGCAGTTCATTGTCGTT
	0 A	D4	mab204451U	LG13	TGCAGCTCTCCCTCGCC
	3.19 B	D5	mab124391U	LG13	TGCAGCTGTTGCGGTGT
	3.19 B	D5	mab116921U	LG13	TGCAGCGTCACGCCCTC
	3.19 B	D5	mab7216 1U	LG13	TGCAGGGAGAACGTCA
	3.19 B	D5	mab7492 1U	LG13	TGCAGAGGCAGTTTCTC
	3.19 S	Cod	mab1366 1U	LG13	TGCAGATGGTCCACACC
	3.19 AB	D5	mab9038 1U	LG13	TGCAGGCGCTTGATGG
	3.19 AB	D5	mab148431U	LG13	TGCAGCGGTGAGTAGG
	3.19 A	D5	mab118361U	LG13	TGCAGACTATTCTGTGT
	3.19 A	D4	mab213101U	LG13	TGCAGGCTTTTGCTGTC
	3.19 A	D4	mab227551U	LG13	TGCAGAACGGGTCTGTG
	3.19 A	D4	mab191431U	LG13	TGCAGCCTTAAATTCG
	3.19 A	D4	mab217501U	LG13	TGCAGCTGAAGGGCGC
	3.19 A	Cod	mab3565 1U	LG13	TGCAGCTCGGAGCAAG
	3.19 A	D4	mab192511U	LG13	TGCAGCCGCCATTGCC
	3.19 A	D4	mab279401U	LG13	TGCAGCATGTGGCCGC
	3.19 A	D4	mab255151U	LG13	TGCAGCACATCTGCCAC
	3.19 AB	D5	mab5955 1U	LG13	TGCAGTACAGTCATCCC
	3.19 AB	D5	mab9564 1U	LG13	TGCAGCTTGGAGCAGG
	3.19 AB	D5	mab131741U	LG13	TGCAGGGAATGTCGGA
	3.19 A	D5	mab156441U	LG13	TGCAGGAGGAACCCAT
	3.19 A	D5	mab9819 1U	LG13	TGCAGCGGGAGGCGGC
	3.19 A	D5	mab133941U	LG13	TGCAGCGAGTCTTTAAC
	3.19 A	D5	mab153361U	LG13	TGCAGAGGAGGAGCTA
	3.19 A	Cod	mab2467 1U	LG13	TGCAGCAGCATCACCA
	3.19 A	D5	mab8294 1U	LG13	TGCAGCTGGATGGCAC
	3.19 A	D4	mab222031U	LG13	TGCAGCCACCCTCCAC
	3.19 A	D5	mab146861U	LG13	TGCAGCTGTTGGGCTG
	3.19 A	D4	mab277241U	LG13	TGCAGGACGAGCGTGA
	8.81 S	Cod	mab4067 1U	LG13	TGCAGACCTCGGTCTGC
	8.81 A	D4	mab192381U	LG13	TGCAGCCGCGCATGGC
	8.81 A	D5	mab100341U	LG13	TGCAGGACGAGCTCTCA
	8.81 A	D4	mab254991U	LG13	TGCAGATTCACGGTGG
	8.81 A	D4	mab247461U	LG13	TGCAGGCGTGACCAGC
	8.81 A	D4	mab164761U	LG13	TGCAGCCTCCAGCCTC
	8.81 A	D4	mab251131U	LG13	TGCAGCAGCTGCTGGT
	8.81 A	D5	mab108141U	LG13	TGCAGCAGGTCCAGCA
	8.81 A	D4	mab219151U	LG13	TGCAGCGGCGCCGATG
	8.81 A	D4	mab245261U	LG13	TGCAGCGTCTCCCCATA

8.81 A	D5	mab106811U	LG13	TGCAGGGCCCCAAGTT
8.81 A	D5	mab143171U	LG13	TGCAGGTGCTGCGGAT
8.81 A	D4	mab245341U	LG13	TGCAGCGGCGGCCATC
8.81 A	D4	mab239121U	LG13	TGCAGCGCACACGCAT
8.81 A	D4	mab239011U	LG13	TGCAGCGCGTCCACA
8.81 A	D4	mab237671U	LG13	TGCAGCTTTTCGTTGCC
8.81 A	D4	mab177631U	LG13	TGCAGTGTGAGAAAGA
8.81 A	D4	mab229961U	LG13	TGCAGAAGAGCACCTG
8.81 AB	D5	mab5926 1U	LG13	TGCAGCAGGACCTTGA
8.81 A	D5	mab141151U	LG13	TGCAGTGTCTACGGCAC
8.81 A	D4	mab215221U	LG13	TGCAGGAGGACGGCGA
8.81 A	D4	mab273381U	LG13	TGCAGCCAACAGCAGTC
8.81 A	D4	mab228621U	LG13	TGCAGAATCGATCGCC
8.81 A	D5	mab160441U	LG13	TGCAGGGGCACATCGC
8.81 A	D5	mab137991U	LG13	TGCAGGAGCATCTGGG
8.81 A	D4	mab165641U	LG13	TGCAGCATGTCCGATGC
8.81 A	D4	mab278801U	LG13	TGCAGCTGGGCTCGTC
8.81 AB	D5	mab7027 1U	LG13	TGCAGTTTCTCTTCGG
8.81 AB	D5	mab131631U	LG13	TGCAGGGAGGCGACTC
8.81 AB	D5	mab5992 1U	LG13	TGCAGGCCCTGCTCGC
8.81 AB	D5	mab159571U	LG13	TGCAGTACGAACAACGA
8.81 AB	D5	mab8203 1U	LG13	TGCAGCTCAAAGAAGC
8.81 AB	D5	mab141611U	LG13	TGCAGTGAAGCTTCGTC
8.81 A	D5	mab143461U	LG13	TGCAGGTCAGCACGGC
8.81 A	D5	mab7642 1U	LG13	TGCAGCAAGAACTTACC
8.81 A	D4	mab166181U	LG13	TGCAGCAGCCCGTCGA
8.81 A	D4	mab272131U	LG13	TGCAGGGTCATGACCTC
8.81 A	Cod	mab619 1U	LG13	TGCAGCGGCCGTTCGA
8.81 A	D4	mab166131U	LG13	TGCAGCAGCGGCCTGT
8.81 A	D4	mab274521U	LG13	TGCAGGCGTGCGTGAG
8.81 A	D4	mab165251U	LG13	TGCAGCCCCGCCTTCAT
8.81 A	D4	mab186401U	LG13	TGCAGGACAGTGAACC
8.81 A	Cod	mab2610 1U	LG13	TGCAGGGCATATCGTTA
14.91 B	D4	mab207281U	LG13	TGCAGTTTACATAAAAC
14.91 B	D4	mab244331U	LG13	TGCAGGCGGTGGCTAC
14.91 B	D4	mab278851U	LG13	TGCAGTTGCAGAGGGG
14.91 B	D4	mab191191U	LG13	TGCAGCGACACAACGT
14.91 B	D4	mab275121U	LG13	TGCAGAACAAAAACAG
14.91 B	D4	mab245881U	LG13	TGCAGCCATGACAGGT
14.91 B	D4	mab273021U	LG13	TGCAGACCGCTTCGTT
14.91 B	D4	mab229501U	LG13	TGCAGTTGTACACCAA
14.91 B	D4	mab266651U	LG13	TGCAGCGTGGTGTTCA
14.91 B	D4	mab227981U	LG13	TGCAGGGGTAGGCGCG
14.91 B	D4	mab260001U	LG13	TGCAGGGCTGCCTCGG
14.91 B	D4	mab238281U	LG13	TGCAGCTCGGAGGCGC
14.91 B	D4	mab166141U	LG13	TGCAGCAGCGCCGCAT
14.91 S	Cod	mab5515 1U	LG13	TGCAGGAGAAGAACCA
14.91 AB	D5	mab121111U	LG13	TGCAGTGGAGCAGTCA

14.91 AB	D5	mab102161U	LG13	TGCAGCAGCGATCATCG
14.91 AB	D5	mab157661U	LG13	TGCAGACTAGATTGCCT
14.91 AB	D5	mab152441U	LG13	TGCAGATGTCGCGCGAA
14.91 A	D5	mab120471U	LG13	TGCAGAAAAAGCCCC
14.91 A	D5	mab153381U	LG13	TGCAGAGGAGCAAATCA
14.91 A	D5	mab144781U	LG13	TGCAGGCGTTGATTGAT
14.91 A	D5	mab157771U	LG13	TGCAGCCAGCGTTGCC
14.91 A	D4	mab192351U	LG13	TGCAGCCGCGCGCCCC
14.91 A	D4	mab222681U	LG13	TGCAGCAGTGACCCGC
14.91 A	D5	mab120481U	LG13	TGCAGTTTTTGAGCCAC
14.91 A	D5	mab111041U	LG13	TGCAGGCAGTGCATG
14.91 A	D5	mab7975 1U	LG13	TGCAGCTTCGAGTCCCA
14.91 A	D4	mab222741U	LG13	TGCAGCAGTACATATATA
14.91 A	D4	mab253001U	LG13	TGCAGCGGGATCATCGC
22.83 B	D4	mab164771U	LG13	TGCAGCCTCCAGAGCC
22.83 B	D4	mab232991U	LG13	TGCAGCAGGGGCCCCG
22.83 B	D5	mab5899 1U	LG13	TGCAGGTCATCTCCACC
22.83 S	Cod	mab2757 1U	LG13	TGCAGCGACGAGATGG
22.83 A	D4	mab264491U	LG13	TGCAGCCGCATGATAGC
22.83 A	Cod	mab5183 1U	LG13	TGCAGTTTTGTGCTCCA
22.83 A	D4	mab203511U	LG13	TGCAGGCTTCTAGACC
26.46 B	D4	mab258711U	LG13	TGCAGTATGAAGGCCGT
26.46 B	D5	mab163021U	LG13	TGCAGCTCTTTTTCTCTA
26.46 B	D5	mab106501U	LG13	TGCAGTAGGAGGGGAG
26.46 B	D5	mab6826 1U	LG13	TGCAGTTGGGAGACGC
26.46 B	D5	mab9338 1U	LG13	TGCAGGAGGGCGGGCT
26.46 B	D5	mab155771U	LG13	TGCAGTGCGAGCAGAA
26.46 S	Cod	mab1162 1U	LG13	TGCAGGAAGTATCCAT
26.46 A	D5	mab142801U	LG13	TGCAGGTTTCTTTGGTG
26.46 A	D5	mab146601U	LG13	TGCAGCTTGCGTCGTT
28.48 S	Cod	mab2 1U	LG13	TGCAGGCGTCCCATTG
28.48 A	Cod	mab2758 1U	LG13	TGCAGGAGGTCGTCCAT
28.48 AB	D5	mab131871U	LG13	TGCAGGCGGGCTCGTC
28.48 A	D5	mab161461U	LG13	TGCAGGCAATGTGGGA
28.48 A	Cod	mab10 1U	LG13	TGCAGGAGGTCGTCCAT
28.48 A	D5	mab5900 1U	LG13	TGCAGGTCATCTCCACC
28.48 A	D5	mab137141U	LG13	TGCAGTGAGTCGTCTGC
30.99 B	D5	mab129691U	LG13	TGCAGCGGAGCGTGCG
30.99 B	D5	mab145071U	LG13	TGCAGGCGCAGGGGAG
30.99 S	Cod	mab4305 1U	LG13	TGCAGCCGAGCTCCCC
30.99 A	D5	mab5898 1U	LG13	TGCAGGAGAGACCTGA
34.44 B	D5	mab158341U	LG13	TGCAGTGGAGTGGTGC
34.44 S	Cod	mab2233 1U	LG13	TGCAGCTCCTCGCTCTA
34.66 B	D4	mab179161U	LG13	TGCAGTCGAGTCGTGAC
34.66 B	D4	mab273611U	LG13	TGCAGCTTCACCAACA
34.66 S	Cod	mab2233 1U	LG13	TGCAGCTCCTCGCTCTA
34.66 A	D4	mab257531U	LG13	TGCAGGCACCATGGGA
34.66 A	D5	mab9545 1U	LG13	TGCAGGCCACCACCG

37.6 S	Cod	mab5364 1U	LG13	TGCAGAGGAGGAGGCT
37.6 A	D5	mab144821U	LG13	TGCAGGCGGGCAGGGT
37.6 A	D5	mab145541U	LG13	TGCAGGCAGTCAAGTG
37.6 A	D4	mab197911U	LG13	TGCAGAGGTCTTCGGTC
37.6 A	D5	mab106731U	LG13	TGCAGGGGAAGCGGTT
41.02 S	Cod	mab1784 1U	LG13	TGCAGAGAGAGCAAGG
41.02 A	D4	mab183361U	LG13	TGCAGGCTGCTGTTGTT
41.02 A	D5	mab114601U	LG13	TGCAGAAATCTGTGGGC
41.02 A	D4	mab250611U	LG13	TGCAGAGGTAGAGCGC
41.02 A	D4	mab263191U	LG13	TGCAGCTCGCCGCCGT
41.02 A	D4	mab237851U	LG13	TGCAGCTTCCCGCGCT
41.02 A	D4	mab262551U	LG13	TGCAGCTTGAGACGAA
41.02 A	D4	mab254401U	LG13	TGCAGCATCCGCATGAC
41.02 A	D5	mab131761U	LG13	TGCAGGCTGGTCAGGA
41.02 A	D4	mab261531U	LG13	TGCAGTCGCTTGCCAA
41.02 A	D4	mab220741U	LG13	TGCAGCCTCCGATGCG
41.02 A	D4	mab164791U	LG13	TGCAGCCTCACAGAAGT
41.02 A	Cod	mab27 1U	LG13	TGCAGGTAACGCGGCT
41.02 A	D4	mab253731U	LG13	TGCAGCGGCCACCTG
41.02 A	D4	mab276141U	LG13	TGCAGAGCATCGCGGA
41.02 A	D4	mab189391U	LG13	TGCAGCGGGGCAGTGG
46.8 S	Cod	mab1164 1U	LG13	TGCAGCCAACTTGTCTG
46.8 A	D5	mab123581U	LG13	TGCAGGCAGTGGCGCG
46.8 A	D4	mab256901U	LG13	TGCAGGCCGTGCGGCT
46.8 A	Cod	mab3 1U	LG13	TGCAGCGCGAGGATGC
46.8 AB	D5	mab7875 1U	LG13	TGCAGCACAGCTAATTA
46.8 A	D5	mab5940 1U	LG13	TGCAGAAGGGCAGCTC
46.8 A	D4	mab220641U	LG13	TGCAGCCTCGGCTTGT
46.8 A	D4	mab263041U	LG13	TGCAGGCGCTCTCCA
53.31 B	D5	mab123261U	LG13	TGCAGGCGAGGCAACA
53.31 B	D5	mab101141U	LG13	TGCAGCAGGGCAGGGC
53.31 S	Cod	mab1837 1U	LG13	TGCAGCACCATTGTCAT
53.31 A	D4	mab226651U	LG13	TGCAGACGCCACCAGA
53.31 A	D4	mab187671U	LG13	TGCAGCTGCCTGACCT
53.31 A	D4	mab235241U	LG13	TGCAGTCGACCCGCTT
53.31 A	D5	mab141491U	LG13	TGCAGTGATCTGGTCG
54.89 S	Cod	mab4112 1U	LG13	TGCAGGTCATCGCGAGA
54.89 A	D5	mab124321U	LG13	TGCAGCTTCGAGGCGT
54.89 A	D4	mab245211U	LG13	TGCAGCTACTATATGGC
54.89 A	D5	mab119891U	LG13	TGCAGCGGGATGGTG
54.89 A	D4	mab242261U	LG13	TGCAGAAGCAAGCCCG
54.89 AB	D5	mab138031U	LG13	TGCAGGAGACCGTGCA
54.89 AB	D5	mab122841U	LG13	TGCAGGGCAGAGGAAG
54.89 AB	D5	mab139941U	LG13	TGCAGAAAGTTGTACCT
54.89 A	D5	mab142851U	LG13	TGCAGGTTTCGTATCAT
54.89 A	D5	mab5952 1U	LG13	TGCAGCAAAGTGTGCA
54.89 A	D5	mab149831U	LG13	TGCAGCCGCTCGTCAC
58.06 S	Cod	mab3729 1U	LG13	TGCAGCCTGTGGACCTA

58.06 A	Cod	mab5290 1U	LG13	TGCAGGTCGCTGGTGT
58.06 A	D5	mab151301U	LG13	TGCAGCAGCGCTCGCA
58.06 A	D5	mab8584 1U	LG13	TGCAGATTCAAAACAGA
58.06 A	D5	mab133561U	LG13	TGCAGCGGGGCGCAGC
58.06 A	D4	mab228961U	LG13	TGCAGTTTGACGGAATC
58.06 A	D4	mab278761U	LG13	TGCAGGTGCAGGTGGG
58.06 A	D4	mab253911U	LG13	TGCAGAGGACAGAGGG
63.33 B	D5	mab7914 1U	LG13	TGCAGGTTCCACCATGA
63.33 B	D5	mab132261U	LG13	TGCAGGCAACCTCTGC
63.33 S	Cod	mab5345 1U	LG13	TGCAGCGGCAAAGCGT
63.33 AB	D5	mab124081U	LG13	TGCAGGACAAGGTGGT
63.33 AB	D5	mab105561U	LG13	TGCAGATACTACTACAA
63.33 A	D5	mab143861U	LG13	TGCAGGGGTCCCCGCA
63.33 A	D4	mab208241U	LG13	TGCAGTGGAGGGGGGA
63.33 A	D4	mab264651U	LG13	TGCAGAAACCCAGTCC
64.45 S	Cod	mab1985 1U	LG13	TGCAGATGCTACGACCA
64.45 A	D4	mab280841U	LG13	TGCAGTGCTGCGGTACC
64.45 A	Cod	mab2566 1U	LG13	TGCAGCGCCAGCTCAA
64.45 A	D5	mab5932 1U	LG13	TGCAGAAAGGTGTATGC
64.45 A	D5	mab151421U	LG13	TGCAGCAGCAGCAGGA
64.45 A	D4	mab214231U	LG13	TGCAGGCCATACCGTAG
64.45 A	D4	mab164841U	LG13	TGCAGCCGTTAGACGCA
64.45 A	Cod	mab11 1U	LG13	TGCAGGACGCGGTCTC
64.45 A	D4	mab175011U	LG13	TGCAGCAGAAGCGGGG
66.49 B	D5	mab5996 1U	LG13	TGCAGACTGGCAGGCC
66.49 S	Cod	mab2797 1U	LG13	TGCAGGCCACCACGCA
66.49 A	D4	mab178181U	LG13	TGCAGTGCTTTGCTCGA
66.49 A	D5	mab143271U	LG13	TGCAGGTGAAAAGTCGA
66.49 A	D4	mab259921U	LG13	TGCAGCCAGACCCCCA
66.49 A	D4	mab248001U	LG13	TGCAGCTGCTGGTTCC
66.49 A	D4	mab236681U	LG13	TGCAGGCTCTAGCTCGT
67.84 B	D4	mab278291U	LG13	TGCAGGAACTTCTGCGT
67.84 S	Cod	mab1891 1U	LG13	TGCAGCACAAAGGAGA
67.84 A	D4	mab222311U	LG13	TGCAGCATTGGCGATGA
67.84 A	D4	mab165491U	LG13	TGCAGCCAGAAATCCTC
67.84 A	D4	mab165731U	LG13	TGCAGCATCGTCTTAGC
67.84 A	D4	mab204311U	LG13	TGCAGCTGGTGGACGT
67.84 A	Cod	mab2778 1U	LG13	TGCAGTCGGCGACGAT
67.84 A	Cod	mab2784 1U	LG13	TGCAGCAGCTCCGCGT
67.84 AB	D5	mab9518 1U	LG13	TGCAGGTCTTCAAAGCC
67.84 AB	D5	mab161011U	LG13	TGCAGGCGGAGATGAA
67.84 A	D5	mab139751U	LG13	TGCAGACGGAACAAA
70.33 S	Cod	mab626 1U	LG13	TGCAGCAGAGATGGCC
70.33 A	D4	mab183881U	LG13	TGCAGGCGGCAAACCT
70.33 A	D5	mab156501U	LG13	TGCAGGAAGGCCACGT
72.13 S	Cod	mab1846 1U	LG13	TGCAGGCGAGGCATCTA
72.13 A	D4	mab166311U	LG13	TGCAGCAGCACAAAGCG
72.13 AB	D5	mab5943 1U	LG13	TGCAGCACGACCTCGC

72.13 A	D5	mab5902 1U	LG13	TGCAGCCGCTCGGACG
74.61 B	D4	mab164831U	LG13	TGCAGCCGTTCTTGGC
74.61 S	Cod	mab2760 1U	LG13	TGCAGGGCGTACAGCA
74.61 A	D4	mab166351U	LG13	TGCAGCAGATGCTCTTG
74.61 A	D4	mab199041U	LG13	TGCAGACTGATCCCTGC
74.61 A	D4	mab262461U	LG13	TGCAGGCCAGCGCGC
76.18 S	Cod	mab28 1U	LG13	TGCAGCGGGTACACCA
76.4 B	D4	mab209621U	LG13	TGCAGTCAGTACAACCA
76.4 B	D4	mab228721U	LG13	TGCAGACTGGATGTTGC
76.4 B	Cod	mab17 1U	LG13	TGCAGGACGATGGAGC
76.4 B	Cod	mab1056 1U	LG13	TGCAGATTCATGCTCTC
76.4 B	Cod	mab737 -21U	LG13	TGCAGGCGTCGGTGTC
76.4 S	Cod	mab737-1 1U	LG13	TGCAGGCGTCGGTGTC
76.4 A	D5	mab5957 1U	LG13	TGCAGGCAGAAAGGAC
76.4 A	D4	mab255491U	LG13	TGCAGTTTGAGGAACG
76.4 A	D4	mab171321U	LG13	TGCAGTAGATGCACTAT
77.29 B	D4	mab165671U	LG13	TGCAGCATGCGGCAGC
77.29 S	Cod	mab18 1U	LG13	TGCAGTGTCTGGCTAG
77.29 A	D5	mab143701U	LG13	TGCAGGGTGCGGGGCC
77.73 S	Cod	mab566 1U	LG13	TGCAGGACGTGACACG
77.73 A	D5	mab5961 1U	LG13	TGCAGTGTGGAGCCAG
77.73 AB	D5	mab106111U	LG13	TGCAGGAGCTTCGAGC
77.73 AB	D5	mab5962 1U	LG13	TGCAGCTTGCCCTCCT
77.73 AB	D5	mab106471U	LG13	TGCAGTCACGTCTTGCC
77.73 A	D5	mab155891U	LG13	TGCAGTCCAAGACCGTC
78.4 B	D4	mab198831U	LG13	TGCAGAGACCCAACCT
78.4 B	D4	mab165741U	LG13	TGCAGCATCGGAGAGG
78.4 B	Cod	mab2783 1U	LG13	TGCAGGCGCTTGGCCC
78.4 S	Cod	mab2782 1U	LG13	TGCAGGCGCTGGGCC
78.4 AB	D5	mab8628 1U	LG13	TGCAGAGGTGCGTAGC
78.4 AB	D5	mab109641U	LG13	TGCAGTGCCATGACAAC
78.4 AB	D5	mab7905 1U	LG13	TGCAGATGTACATGCAT
78.4 AB	D5	mab137301U	LG13	TGCAGTATGTACCTCAG
78.4 AB	D5	mab9123 1U	LG13	TGCAGATCATGCCGAAC
78.4 AB	D5	mab120331U	LG13	TGCAGAGTGGGGCGGT
78.4 AB	D5	mab142481U	LG13	TGCAGTAGAGGCGAGC
78.4 AB	D5	mab133931U	LG13	TGCAGCGAGTGAAATTC
78.4 AB	D5	mab8471 1U	LG13	TGCAGCAGAGAAGACA
78.4 AB	D5	mab149171U	LG13	TGCAGCGCAGAACCTC
78.4 AB	D5	mab8178 1U	LG13	TGCAGTCCTCCTCACGG
78.4 AB	D5	mab119601U	LG13	TGCAGGATAGCCTTGG
78.4 AB	D5	mab157281U	LG13	TGCAGCACGCAAAGAG
78.4 AB	D5	mab9200 1U	LG13	TGCAGCTTCCCCTCCTC
78.4 AB	D5	mab158301U	LG13	TGCAGTGGCAGTTCGCA
78.4 AB	D5	mab6445 1U	LG13	TGCAGCCTCGTCGCTCC
78.4 AB	D5	mab104271U	LG13	TGCAGCGTCCCACGGC
78.4 AB	D5	mab131211U	LG13	TGCAGGTCGCGGTTCTC
78.4 AB	D5	mab7288 1U	LG13	TGCAGCGCCCCTCGCC

78.4 AB	D5	mab110631U	LG13	TGCAGTGCACGATGGA
78.4 AB	D5	mab7502 1U	LG13	TGCAGGTACGTACACTT
78.4 AB	D5	mab135761U	LG13	TGCAGAGACCACGCCG
78.4 AB	D5	mab121121U	LG13	TGCAGTGCTTGGGCCG
78.4 AB	D5	mab141731U	LG13	TGCAGTCTGAAGAAACA
78.4 AB	D5	mab140851U	LG13	TGCAGTGGTCACTTCTT
78.4 AB	D5	mab144891U	LG13	TGCAGGCGGCGAACCCG
78.4 AB	D5	mab9116 1U	LG13	TGCAGCAGGAGAAGTC
78.4 AB	D5	mab144581U	LG13	TGCAGGCTGGACGAAA
78.4 AB	D5	mab139931U	LG13	TGCAGAAATAAAGCGCC
78.4 AB	D5	mab6858 1U	LG13	TGCAGCGACGAGATCG
78.4 AB	D5	mab143811U	LG13	TGCAGGGTATGTGCCGT
78.4 AB	D5	mab144301U	LG13	TGCAGGGGTGGTGCCA
78.4 AB	D5	mab148911U	LG13	TGCAGCGCGGGTGGCC
78.4 AB	D5	mab140401U	LG13	TGCAGTTCTCATGTCCG
78.4 AB	D5	mab140271U	LG13	TGCAGTTGCTCGTTTGG
78.4 AB	D5	mab129441U	LG13	TGCAGGCGCGTCCGTTA
78.4 AB	D5	mab141981U	LG13	TGCAGTCCGTGGAAGC
78.4 AB	D5	mab147621U	LG13	TGCAGCTCGGGTGGCC
78.4 AB	D5	mab156191U	LG13	TGCAGGGACGACGTCCG
78.4 AB	D5	mab145961U	LG13	TGCAGGAGGTGGAGAA
78.4 A	D5	mab146871U	LG13	TGCAGCTGTTACCTCCA
78.84 B	Cod	mab4332 1U	LG13	TGCAGCGGAGCTGGGC
78.84 B	Cod	mab1356 1U	LG13	TGCAGGAGAGAAGGAA
78.84 B	Cod	mab4 1U	LG13	TGCAGGCGTCCATATGG
78.84 B	Cod	mab1174 1U	LG13	TGCAGCAGGGGGGGAC
78.84 B	Cod	mab4700 1U	LG13	TGCAGCAAGA AACCGC
78.84 B	Cod	mab1423 1U	LG13	TGCAGAACTTCACAGCA
78.84 B	Cod	mab3881 1U	LG13	TGCAGGACGGCTTCAA
78.84 B	Cod	mab2768 1U	LG13	TGCAGCCAGTTTGGTCC
78.84 S	Cod	mab2776 1U	LG13	TGCAGCTAGCTACGTGA
78.84 A	Cod	mab3897 1U	LG13	TGCAGATCACAAGGCG
78.84 A	Cod	mab1075 1U	LG13	TGCAGCAGAGGAGGGC
78.84 A	D4	mab245511U	LG13	TGCAGCGCCTCTTTTA
78.84 A	D4	mab265821U	LG13	TGCAGGGTTGAAGACA
78.84 A	D4	mab211061U	LG13	TGCAGGTGGCGGCGAC
78.84 AB	Cod	mab1290 1U	LG13	TGCAGGACAAGCACAG
78.84 A	Cod	mab1048 1U	LG13	TGCAGAGGCCAGGCCA
78.84 A	Cod	mab1503 1U	LG13	TGCAGAGCTGTCGTGG
79.73 B	D4	mab180881U	LG13	TGCAGGTGGAGTTCGT
79.73 B	D4	mab275801U	LG13	TGCAGGAGCCGGAGAG
79.73 B	D4	mab243321U	LG13	TGCAGTGCAGACCGAT
79.73 B	D4	mab222261U	LG13	TGCAGCATTTGGCTCGA
79.73 B	D4	mab267361U	LG13	TGCAGAAAACAACCGTA
79.73 B	D4	mab164891U	LG13	TGCAGCCGTCAGGTGC
79.73 B	D4	mab188731U	LG13	TGCAGCTAGCTCCGCCA
79.73 B	Cod	mab2762 1U	LG13	TGCAGCCCCACTGCC
79.73 B	Cod	mab4405 1U	LG13	TGCAGTGTCTTGAAGC

79.73 B	Cod	mab1807 1U	LG13	TGCAGCGGTGGCAGCG
79.73 B	Cod	mab3656 1U	LG13	TGCAGCACGTGGTGGC
79.73 B	Cod	mab2772 1U	LG13	TGCAGAAGCGTTGAATC
79.73 S	Cod	mab757 1U	LG13	TGCAGAGGGGAACATC
79.73 A	D5	mab133991U	LG13	TGCAGCGACGGCGTGC
80.17 S	Cod	mab3713 1U	LG13	TGCAGAGCGGCGCAC
80.17 A	D4	mab262201U	LG13	TGCAGCACATCGATGGA
80.17 A	D4	mab219301U	LG13	TGCAGCGGCAGGCCGT
80.17 A	D4	mab221481U	LG13	TGCAGCCCGACGAACG
80.17 A	D4	mab261351U	LG13	TGCAGCTGGTGAGGAA
80.17 A	D4	mab188751U	LG13	TGCAGCTAGCGGTGTT
80.17 A	D4	mab231881U	LG13	TGCAGCAGCGGCAGCC
80.17 A	D4	mab214671U	LG13	TGCAGGCACCCCGCG
80.17 AB	Cod	mab210951U	LG13	TGCAGGTGTACGGTACA
80.17 AB	Cod	mab202861U	LG13	TGCAGTACCACCAATAC
80.17 AB	Cod	mab1085 1U	LG13	TGCAGTCTTTGGGAACC
80.17 AB	Cod	mab382 1U	LG13	TGCAGTGGGCGCTCCT
80.17 A	Cod	mab3870 1U	LG13	TGCAGCTGGCGGGGCC
80.17 A	D4	mab270011U	LG13	TGCAGGACTGGTATTCC
80.17 A	Cod	mab1756 1U	LG13	TGCAGTTCGGTCCCGT
80.17 A	Cod	mab3855 1U	LG13	TGCAGCCTAAAAATTAT
81.51 S	Cod	mab3669 1U	LG13	TGCAGGGCACCTTTGTC
81.51 A	D4	mab249661U	LG13	TGCAGCATCTCCTCCAG
81.51 AB	Cod	mab119981U	LG13	TGCAGCGACTACGGTCA
81.51 A	Cod	mab1268 1U	LG13	TGCAGTCCCGCTACGGT
82.18 B	D4	mab192701U	LG13	TGCAGCCGAATCTCTCT
82.18 B	D4	mab260951U	LG13	TGCAGTTGGTAAAGCGT
82.18 B	Cod	mab4928 1U	LG13	TGCAGCGGTGGCTGGA
82.18 S	Cod	mab656 1U	LG13	TGCAGCGGCGCGGGA
82.18 A	Cod	mab1389 1U	LG13	TGCAGTCCCACGGCTC
82.18 AB	D5	mab147521U	LG13	TGCAGCTCTCACGGCGA
82.18 A	D5	mab148951U	LG13	TGCAGCGCGCGCATGC
82.85 S	Cod	mab481 1U	LG13	TGCAGTGACATGTCCCT
82.85 A	D4	mab251401U	LG13	TGCAGGACAGAGCTAG
82.85 AB	D5	mab140791U	LG13	TGCAGTGGTTGCGGGT
82.85 AB	D5	mab138811U	LG13	TGCAGCCATTGCTGTT
82.85 AB	D5	mab141591U	LG13	TGCAGTGAAGGCTCTCC
82.85 AB	D5	mab142601U	LG13	TGCAGTACCCCGCCGT
82.85 A	D5	mab140781U	LG13	TGCAGTGGTTGCTGCT
82.85 A	D4	mab274151U	LG13	TGCAGCAAGGTCACCC
82.85 A	D5	mab162281U	LG13	TGCAGGAACTGGTGCC
82.85 A	D4	mab175801U	LG13	TGCAGAGCCCAAGCCG
84.65 S	Cod	mab5539 1U	LG13	TGCAGCCTCCCTTCCC
85.77 S	Cod	mab2311 1U	LG13	TGCAGGGCGTGGCGCC
85.77 A	Cod	mab1818 1U	LG13	TGCAGACAAAATCGATT
85.77 A	D4	mab242941U	LG13	TGCAGTTGTGTAGGATC
85.77 A	D4	mab258831U	LG13	TGCAGCAGCTTGTGCA
85.77 A	D4	mab256301U	LG13	TGCAGCGGCGGCTGCC

85.77 A	Cod	mab457 1U	LG13	TGCAGTCGCCAGGGAAT
85.77 A	D4	mab259141U	LG13	TGCAGCTCCATAAGGTA
85.77 A	Cod	mab4882 1U	LG13	TGCAGCGGTCCGCGGCT
85.77 AB	Cod	mab899 1U	LG13	TGCAGTGGGCGACGGC
85.77 AB	Cod	mab4039 1U	LG13	TGCAGCCACTCCCCTCC
85.77 A	Cod	mab3630 1U	LG13	TGCAGATCACACTCAGC
85.77 A	D4	mab181061U	LG13	TGCAGGTGCAACAGGG
85.77 AB	D5	mab104371U	LG13	TGCAGCGCCAGGGGCT
85.77 AB	D5	mab145561U	LG13	TGCAGGCAGCCGCGGC
85.77 AB	D5	mab7884 1U	LG13	TGCAGCTGCATTATTAT
85.77 AB	D5	mab147381U	LG13	TGCAGTTGCAGTGGGAT
85.77 A	D5	mab134401U	LG13	TGCAGCCAGGTGACGT
85.77 A	D5	mab8912 1U	LG13	TGCAGTGGCACATCGTC
85.77 A	Cod	mab3940 1U	LG13	TGCAGCGCGCGGCTTA
85.77 A	D4	mab232251U	LG13	TGCAGCTCTTCTCCAG
85.77 A	D4	mab214361U	LG13	TGCAGGCATGCCTGCG
85.77 A	D5	mab120161U	LG13	TGCAGCAGCAAGAGGG
88.02 S	Cod	mab4885 1U	LG13	TGCAGAATGAGAATCCC
88.02 A	D4	mab246211U	LG13	TGCAGCAGCACCAGCA
88.02 A	D5	mab148031U	LG13	TGCAGCTAGTTTCACAG
88.02 AB	D5	mab130011U	LG13	TGCAGTTTGAGGACGCC
88.02 AB	D5	mab8692 1U	LG13	TGCAGCGCAACGGGTG
88.02 AB	D5	mab149021U	LG13	TGCAGCGCCGAAGGAG
88.02 AB	D5	mab144151U	LG13	TGCAGGGCGCTTGAAG
88.02 AB	D5	mab7065 1U	LG13	TGCAGGCGTTGACCAC
88.02 A	D5	mab8929 1U	LG13	TGCAGGTCTCCAGGAC
88.02 A	D4	mab237391U	LG13	TGCAGGAGACCTTTACA
88.02 A	D4	mab242551U	LG13	TGCAGTTGGATATACGG
88.02 A	Cod	mab3749 1U	LG13	TGCAGCGGTGGTCGGT
88.02 A	D4	mab262261U	LG13	TGCAGTCTACGCGGCG
88.02 A	Cod	mab2050 1U	LG13	TGCAGCGCAGAGTGCC
88.02 A	D4	mab230991U	LG13	TGCAGCGCATCAGCAG
88.02 A	D5	mab9114 1U	LG13	TGCAGCACCATGCCGA
88.02 A	D4	mab216871U	LG13	TGCAGCTGGTTTCGTCT
92.59 S	Cod	mab4557 1U	LG13	TGCAGAAAAGACATCTC
92.59 A	D5	mab142491U	LG13	TGCAGTAGAGGATGGTC
95.3 S	Cod	mab5563 1U	LG13	TGCAGGGCCCCGACTGA
95.3 A	Cod	mab5247 1U	LG13	TGCAGGAACAAGGGCC
95.3 A	D5	mab156921U	LG13	TGCAGCGCCTGGCGCC
98.7 S	Cod	mab4349 1U	LG13	TGCAGGAACAAGGGCC
98.7 A	D4	mab167571U	LG13	TGCAGAGTGCAAAAAC
99.37 S	Cod	mab2463 1U	LG13	TGCAGCCATTGTCACAT
99.37 A	Cod	mab5070 1U	LG13	TGCAGAATGCGCGTATC
99.37 A	D4	mab272441U	LG13	TGCAGATTGATTCCAGG
99.37 A	D4	mab263251U	LG13	TGCAGCGCTCGCCATTA
99.37 A	D4	mab259721U	LG13	TGCAGTTTCACTTTGCT
99.37 A	D4	mab237591U	LG13	TGCAGGAAGAGTCTTCC
99.37 A	D4	mab263051U	LG13	TGCAGCCGTCCGCGGC

100.51 B	D5	mab136131U	LG13	TGCAGAAAAGCTCAGC
100.51 S	Cod	mab1565 1U	LG13	TGCAGCTTATATTGTGC
100.51 A	Cod	mab3246 1U	LG13	TGCAGTATCTGAGTGGAA
101.41 S	Cod	mab1339 1U	LG13	TGCAGTGCACACAATCA
101.41 AB	Cod	mab138931U	LG13	TGCAGCCAACGAGGCT
101.41 A	Cod	mab1282 1U	LG13	TGCAGCCGACGCTGGC
101.41 A	D4	mab274881U	LG13	TGCAGCGCCGCGGCGC
101.41 A	Cod	mab5702 1U	LG13	TGCAGCTCGGCGACGG
101.41 A	D4	mab271311U	LG13	TGCAGCATCTCGAACGC
101.41 A	D4	mab249921U	LG13	TGCAGCTCCTGCTTGCC
101.41 A	D4	mab166421U	LG13	TGCAGCAGACAGGCGT
101.41 AB	D5	mab148571U	LG13	TGCAGCGGGCCCCGTC
101.41 A	D5	mab150391U	LG13	TGCAGCCATCACTAACG
101.41 A	D4	mab230391U	LG13	TGCAGACGGCGGCGAG
101.41 A	D4	mab190721U	LG13	TGCAGCGCCAGCGACC
101.41 A	D4	mab179801U	LG13	TGCAGTAGCTCCAGCAC
101.41 A	D4	mab190811U	LG13	TGCAGCGCACAGCCTT
103.22 B	D4	mab217771U	LG13	TGCAGCTCGCTTTTCGC
103.22 S	Cod	mab2145 1U	LG13	TGCAGCTCGTCGACGG
103.44 S	Cod	mab5394 1U	LG13	TGCAGACCTAGTGGGT
103.44 A	D5	mab124441U	LG13	TGCAGCTGTACAACCAC
105.92 S	Cod	mab818 1U	LG13	TGCAGTAGAGACGGGG
105.92 A	Cod	mab4974 1U	LG13	TGCAGTTCTCTGCCTGC
105.92 A	D5	mab141111U	LG13	TGCAGTGAATCGCTCC
107.96 S	Cod	mab1379 1U	LG13	TGCAGGCTGGAGGCGT
107.96 A	Cod	mab3665 1U	LG13	TGCAGTGCCATGGGGC
109.54 B	D4	mab165771U	LG13	TGCAGCATCTAACAAG
109.54 B	D4	mab165801U	LG13	TGCAGCATCATTATGATA
109.54 B	D4	mab165781U	LG13	TGCAGCATCCCCGACCC
109.54 B	D4	mab210311U	LG13	TGCAGTACACTTAAGAA
109.54 B	D4	mab164991U	LG13	TGCAGCCGCGCGGTCCG
109.54 B	Cod	mab2234 1U	LG13	TGCAGCTCCAGACATAC
109.54 S	Cod	mab4441 1U	LG13	TGCAGAAGGGTAACTCC
109.76 B	D5	mab9408 1U	LG13	TGCAGCCCGCCTCGGC
109.76 B	D5	mab7339 1U	LG13	TGCAGCGCAGGTCCGA
109.76 B	D5	mab5966 1U	LG13	TGCAGCCATTCTTGTGC
109.76 S	Cod	mab2785 1U	LG13	TGCAGGTGCTCACCTC
109.76 A	D5	mab153721U	LG13	TGCAGAGATGGTGAATT
110.88 B	D5	mab6527 1U	LG13	TGCAGTAACCTTGGATC
110.88 S	Cod	mab3005 1U	LG13	TGCAGCGGCAGCGGCA
110.88 A	D5	mab125841U	LG13	TGCAGCGCAGTTGTACC
110.88 A	D5	mab8981 1U	LG13	TGCAGAATCGCGGTCTC
110.88 A	D5	mab132581U	LG13	TGCAGGACACCGCTGC
110.88 A	D5	mab5911 1U	LG13	TGCAGCTTAGTCCACCG
110.88 A	D5	mab122851U	LG13	TGCAGGGATCATCGGAA
110.88 A	D5	mab100491U	LG13	TGCAGCTGCTCTGCTTC
110.88 A	D5	mab100821U	LG13	TGCAGCGGAGGCGGCC
118.36 S	Cod	mab3528 1U	LG13	TGCAGCTCAGTCCAGGT

118.36 A	D4	mab262721U	LG13	TGCAGGTGGTCTGTCCG
118.36 A	D4	mab258971U	LG13	TGCAGGGCCTCGGCGT
118.36 A	D4	mab201371U	LG13	TGCAGCACCCCTGTTCA
118.36 A	D4	mab260591U	LG13	TGCAGTTCCGTGGCGCC
118.36 A	D5	mab107781U	LG13	TGCAGCGGGAGGGTAC
118.36 A	D4	mab230221U	LG13	TGCAGCCCTTGCGCGG
119.48 B	D5	mab117761U	LG13	TGCAGCACGAGCAAAA
119.48 B	D5	mab8072 1U	LG13	TGCAGGTCGGCAGCTC
119.48 S	Cod	mab3503 1U	LG13	TGCAGAAGGCAATGTAC
119.48 A	D4	mab216891U	LG13	TGCAGCTGGTGGACGG
119.48 A	D4	mab165041U	LG13	TGCAGCCGCCCAAGGA
120.37 B	D5	mab102121U	LG13	TGCAGCCCTGCATGGG
120.37 S	Cod	mab2191 1U	LG13	TGCAGGCGACGTGGAA
120.37 A	D4	mab186191U	LG13	TGCAGGACTGGGCATTA
120.37 A	Cod	mab2203 1U	LG13	TGCAGGAGTGCAGAGA
120.37 A	D4	mab204781U	LG13	TGCAGCGGTGGTGTCC
120.37 A	D4	mab254731U	LG13	TGCAGCGGTGATAAAC
120.37 A	Cod	mab4236 1U	LG13	TGCAGAGCATCTCGCTC
123.08 S	Cod	mab4978 1U	LG13	TGCAGGTGGGGTTCTAC
123.08 A	D4	mab164931U	LG13	TGCAGCCGCTGCCCTC
123.08 A	D4	mab213191U	LG13	TGCAGGCTGGGCAGCG
123.08 A	D4	mab178631U	LG13	TGCAGTGACTTCACGGC
123.08 A	D5	mab152031U	LG13	TGCAGCAAGTTCGGGG
123.08 A	D5	mab130281U	LG13	TGCAGTGGTTACGGCGC
127.19 S	Cod	mab5171 1U	LG13	TGCAGTGAAGAATGGAA
127.19 A	D5	mab159281U	LG13	TGCAGTCAAGGTTTGTA
127.19 A	D5	mab102381U	LG13	TGCAGTATGCGCCCTAA
127.19 A	Cod	mab1993 1U	LG13	TGCAGATTGCGGTGGAA
127.19 A	D5	mab9913 1U	LG13	TGCAGGTTCCGATCCAA
127.19 AB	D5	mab133601U	LG13	TGCAGCGGGAGCTGCT
127.19 A	D5	mab156291U	LG13	TGCAGGCCGCTTCTCT
127.19 A	D5	mab149721U	LG13	TGCAGCCGTGGTCTGA
133.67 S	Cod	mab357 1U	LG13	TGCAGCAGCACCCACGA
133.67 A	D4	mab248311U	LG13	TGCAGAGTAGGAGAACC
133.67 A	D4	mab219411U	LG13	TGCAGCGGCAGAGCGG
133.67 A	D4	mab232161U	LG13	TGCAGGGTGCTGTCCC
133.67 A	D4	mab181531U	LG13	TGCAGGTCCAACCGCA
133.67 A	D4	mab227691U	LG13	TGCAGAAATTGATTGTC
133.67 A	D5	mab9068 1U	LG13	TGCAGCTGCTTCTGGCC
133.67 A	D4	mab226181U	LG13	TGCAGAGAGAGAGAAA
133.67 A	D4	mab256321U	LG13	TGCAGAGCGTGTGGCT
133.67 AB	Cod	mab257701U	LG13	TGCAGCAGGCAAATCAT
133.67 A	Cod	mab2805 1U	LG13	TGCAGAAGAGCAAGCA
135.24 S	Cod	mab659 1U	LG13	TGCAGGGCCGACAGAA
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138.42 B	D5	mab138121U	LG13	TGCAGCTTGGACAACG
138.42 B	D5	mab145231U	LG13	TGCAGGCCTACCTGCA
138.42 S	Cod	mab2804 1U	LG13	TGCAGGGCGAAGTTGC

139.54 S	Cod	mab5558 1U	LG13	TGCAGGCGGGCGGCTA
139.54 A	D4	mab238821U	LG13	TGCAGCGGCGTGGGTA
142.02 S	Cod	mab1752 1U	LG13	TGCAGGGACGCGGGAC
142.02 A	D5	mab7889 1U	LG13	TGCAGGCACGGAATTAT
142.02 A	D4	mab236041U	LG13	TGCAGGTAGGCGTTGCT
142.02 A	D4	mab201261U	LG13	TGCAGTCGGAACAGGC
142.02 A	D4	mab209071U	LG13	TGCAGTCTGAGCCGCG
147.06 S	Cod	mab4572 1U	LG13	TGCAGCAGGTAATGCC
147.06 A	D4	mab269721U	LG13	TGCAGCAGAGCTGTTTC
147.06 A	D4	mab192951U	LG13	TGCAGCCCGCCTCGGC
147.06 A	D5	mab101361U	LG13	TGCAGCAAGAGCTGGT
147.06 A	D4	mab206691U	LG13	TGCAGACGACACCACA
149.78 B	D5	mab131961U	LG13	TGCAGGCGACGAACGT
149.78 S	Cod	mab4772 1U	LG13	TGCAGCGATGCAGGTG

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LG7

cM		Marker	Kr.	Kapcsoltsági csoport (LG)	Marker szekvencia
	0 S	Cod	mab2612 2M	LG7	TGCAGCAATCGCACACA
	0 A	D5	mab8472 2M	LG7	TGCAGCGCGCCGAGGC
	0 AB	D5	mab9952 2M	LG7	TGCAGGATTACCCCTAC
	0 AB	D5	mab6195 2M	LG7	TGCAGGAAAAACAGCG
	0 A	D5	mab132192M	LG7	TGCAGGCAGGCGCGGC
	0 A	D5	mab6201 2M	LG7	TGCAGCCTCGGTTGGCC
	0 A	D5	mab159582M	LG7	TGCAGTACAGGGAGTGC
	2.94 S	Cod	mab3876 2M	LG7	TGCAGGACTGGCAGCG
	2.94 A	Cod	mab72 2M	LG7	TGCAGGTCGCCCGGTTG
	2.94 A	Cod	mab4095 2M	LG7	TGCAGGACTGGCAGCG
	2.94 A	Cod	mab849 2M	LG7	TGCAGCGGGTCGAACC
	5.19 S	Cod	mab4015 2M	LG7	TGCAGAGCACGCGCGC
	5.19 B	D5	mab103902M	LG7	TGCAGCTCCGCGCTAA
	5.19 A	D4	mab214162M	LG7	TGCAGGCCCGTTCCGG
	5.19 A	D4	mab239252M	LG7	TGCAGCCTTTTTCTATTG
	5.19 A	D5	mab130852M	LG7	TGCAGTCATGTATGCTG
	5.19 A	D5	mab156392M	LG7	TGCAGGATCAGCGGGA
	5.19 A	D4	mab222852M	LG7	TGCAGCAGGCTTCCCA
	5.19 A	D4	mab271672M	LG7	TGCAGTACTACGCAATG
	5.19 A	D5	mab138052M	LG7	TGCAGGACACGGGCGC
	5.19 A	Cod	mab3515 2M	LG7	TGCAGCCCGCTGGCCC
	5.19 A	D4	mab205392M	LG7	TGCAGCCCGGCCGCTT
	5.19 A	D4	mab223092M	LG7	TGCAGCAGCCGTAGCC
	5.19 A	D5	mab118582M	LG7	TGCAGAACCCGCCCA
	7.68 S	Cod	mab2832 2M	LG7	TGCAGGACGCCGAAC
	7.68 B	D4	mab180762M	LG7	TGCAGGTGTACTGTCCG
	7.68 A	Cod	mab68 2M	LG7	TGCAGAACCACGTGGC
	7.68 A	D5	mab104362M	LG7	TGCAGCGCCGAGAGG
	7.68 A	D5	mab6069 2M	LG7	TGCAGAGCGCGCGGC
	7.68 A	D4	mab166912M	LG7	TGCAGCAACGTTTCGAGT
	10.16 S	Cod	mab2547 2M	LG7	TGCAGCGTAGCTACTTT
	10.16 B	D4	mab215262M	LG7	TGCAGGAGCTTGTCTG
	10.16 B	D4	mab202632M	LG7	TGCAGTCGCTGATAGCT
	10.16 A	D5	mab121042M	LG7	TGCAGTGCGCGTGTGG
	10.16 A	D5	mab130312M	LG7	TGCAGTGGCAGATCAGC
	10.16 A	Cod	mab4157 2M	LG7	TGCAGAGAGAGAGGCA
	10.16 A	D4	mab168252M	LG7	TGCAGACTACTCCTATT
	10.16 A	D5	mab9998 2M	LG7	TGCAGGTCATCGTGCCG
	10.16 A	D5	mab9036 2M	LG7	TGCAGGCGGCGGCCAC
	10.16 A	Cod	mab1226 2M	LG7	TGCAGGGAGTCAGAATC
	10.16 A	D5	mab131862M	LG7	TGCAGGCGGGCTCGTC
	10.16 A	Cod	mab71 2M	LG7	TGCAGCGGGAGCGAGG
	10.16 A	D4	mab203312M	LG7	TGCAGGGCTTGACGCC
	10.16 A	D4	mab251652M	LG7	TGCAGGCTCAGTCGTCC

14.73 S	Cod	mab789	2M	LG7	TGCAGCAGTAACCCGAG
14.73 B	D5	mab9988	2M	LG7	TGCAGTCACTTCCTGGT
14.73 A	D4	mab188702M		LG7	TGCAGCTAGTCCAGGTC
14.73 A	Cod	mab1187	2M	LG7	TGCAGCTGTCGCGAAGG
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14.73 A	D4	mab193732M		LG7	TGCAGCCACCAGACAGG
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14.73 A	D4	mab255822M		LG7	TGCAGTGCCGTGCATGC
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14.73 AB	Cod	mab268162M		LG7	TGCAGCAGCATCTTCAC
14.73 A	D5	mab7227	2M	LG7	TGCAGCAACACATTGTT
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14.73 AB	D5	mab110032M		LG7	TGCAGTAACTGAAACCA
14.73 AB	D5	mab164022M		LG7	TGCAGCGGAAATTGACA
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21.95 S	Cod	mab4800	2M	LG7	TGCAGGAAGGCCGCCG
21.95 B	D4	mab177012M		LG7	TGCAGTTGCAGCTTGCA
21.95 A	Cod	mab930	2M	LG7	TGCAGGAAGGCCGCCG
21.95 A	D5	mab137512M		LG7	TGCAGGTCCTGAGCAAG
23.75 S	Cod	mab5092	2M	LG7	TGCAGACAGGCCCTATT
24.64 S	Cod	mab786	2M	LG7	TGCAGCGGGCGGGCAG
24.64 B	D5	mab7000	2M	LG7	TGCAGCAAGTGTCTAAC
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28.28 S	Cod	mab3911	2M	LG7	TGCAGATGCAGGACCAT
28.28 B	Cod	mab4082	2M	LG7	TGCAGGCAGCGGAGGG
28.28 B	Cod	mab3787	2M	LG7	TGCAGGACTCCGCCGC
28.28 B	Cod	mab3310	2M	LG7	TGCAGTCTACTACAGTAG

28.28 B	Cod	mab964 2M	LG7	TGCAGGGCGACTCGAA
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28.28 B	D5	mab7366 2M	LG7	TGCAGAAATGGAGTAGC
28.28 B	D4	mab263532M	LG7	TGCAGTTGCAGGGGTG
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28.28 B	D4	mab274182M	LG7	TGCAGGCCCATCACGA
28.28 A	D4	mab239622M	LG7	TGCAGCCGACGAGGGA
28.95 S	Cod	mab1219 2M	LG7	TGCAGCCCGCGCCTCT
29.17 S	Cod	mab1433 2M	LG7	TGCAGCATGCACGCAA
29.17 A	D5	mab101462M	LG7	TGCAGATCCTGCTCGAG
29.17 A	D4	mab165302M	LG7	TGCAGCCCCATACATGA
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29.17 AB	Cod	mab223522M	LG7	TGCAGCACTGGAGAGG
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29.17 AB	D5	mab134352M	LG7	TGCAGCCCGCGTTGCA
29.17 AB	D5	mab8422 2M	LG7	TGCAGCGATGCACCGC
29.17 AB	D5	mab7596 2M	LG7	TGCAGTACTACCTGCGC
29.17 A	Cod	mab4121 2M	LG7	TGCAGGAGGTCGCCGA
29.17 A	D4	mab253422M	LG7	TGCAGCTCGGCAACCA
29.17 A	Cod	mab4422 2M	LG7	TGCAGTCAAGATCATGA
29.17 A	D4	mab225502M	LG7	TGCAGAGGGCAAGCGT
29.84 S	Cod	mab2833 2M	LG7	TGCAGCTACCATATGCC
29.84 B	D4	mab225792M	LG7	TGCAGAGCTTGCGCGG
29.84 B	D4	mab182542M	LG7	TGCAGGGCTTCAAACG
29.84 B	D4	mab223282M	LG7	TGCAGCAGCAGCAGCA
29.84 B	Cod	mab4290 2M	LG7	TGCAGGCCAAGAAGGG
29.84 B	D4	mab202852M	LG7	TGCAGTACTCGCTCGCG
29.84 B	D4	mab182462M	LG7	TGCAGGGGAGGAGCGC
29.84 B	D4	mab241402M	LG7	TGCAGAGTGGGCTCAA
29.84 B	D5	mab9386 2M	LG7	TGCAGCGCCATCATCAG
29.84 B	D4	mab196432M	LG7	TGCAGCAACCTTGGGT
29.84 B	D4	mab216242M	LG7	TGCAGCTTTTCATTGCC
29.84 B	D4	mab190012M	LG7	TGCAGCGGATCATCTCC
29.84 A	D4	mab202082M	LG7	TGCAGTTGGTAGGTGGC
29.84 A	D4	mab182442M	LG7	TGCAGGGGATCGAAAAT
29.84 A	D4	mab223152M	LG7	TGCAGCAGCATAGGCGT
29.84 A	D4	mab223262M	LG7	TGCAGCAGCAGCAGCA
29.84 A	D4	mab206022M	LG7	TGCAGCAAGCCGACGA
29.84 A	D4	mab224122M	LG7	TGCAGCAACATCAGCGC
29.84 A	D4	mab224242M	LG7	TGCAGATTTGCGGAGG

29.84 A	D4	mab198462M	LG7	TGCAGAGCCCGTGACTG
29.84 A	D4	mab191002M	LG7	TGCAGCGAGCAGCGAG
29.84 A	D4	mab241192M	LG7	TGCAGATCTTCAACGTAA
29.84 A	D4	mab206312M	LG7	TGCAGATACAGAGGAAC
29.84 A	D4	mab165692M	LG7	TGCAGCATGAAGAAAGT
29.84 A	D4	mab241582M	LG7	TGCAGAGCTTCGAGGAC
29.84 A	D4	mab207102M	LG7	TGCAGTTTTTTCATGCA
29.84 A	D4	mab241612M	LG7	TGCAGAGCGGGAGGGC
29.84 A	D4	mab177842M	LG7	TGCAGTGGTGGGTGACT
29.84 A	D4	mab168292M	LG7	TGCAGACGGCTGCGAG
29.84 A	D4	mab223442M	LG7	TGCAGCAGAGACCTCC
29.84 A	D4	mab279522M	LG7	TGCAGTTGTCCTCCTCC
29.84 A	D4	mab241772M	LG7	TGCAGACTGCTGTGTTG
29.84 A	D4	mab207462M	LG7	TGCAGTTGCAGTTTTTTG
29.84 A	D4	mab204742M	LG7	TGCAGCGTGGGCAGAG
29.84 A	D4	mab191012M	LG7	TGCAGCGAGCACCAGAA
29.84 A	D5	mab159432M	LG7	TGCAGTAGGCTGCCTCA
29.84 A	D4	mab165652M	LG7	TGCAGCATGGGGCGTGT
29.84 A	D4	mab241202M	LG7	TGCAGATCTGCGACGGC
29.84 A	D4	mab223372M	LG7	TGCAGCAGATGGCACG
29.84 A	D4	mab196202M	LG7	TGCAGCAAGGCATCAAT
29.84 A	D4	mab202002M	LG7	TGCAGTTTTTGCAGCAG
29.84 A	D4	mab275142M	LG7	TGCAGAGGTAGGGACAT
29.84 A	D4	mab223382M	LG7	TGCAGCAGATGCTCAAG
29.84 A	D4	mab205552M	LG7	TGCAGCCAAGTAGGATC
29.84 A	D4	mab205562M	LG7	TGCAGCCAAGATAGCTA
29.84 A	D4	mab205832M	LG7	TGCAGCAGCAATTAATG
29.84 A	D4	mab187222M	LG7	TGCAGCTGTGGTGCCTT
29.84 A	D4	mab206292M	LG7	TGCAGATACTGATCATAA
29.84 A	D4	mab224922M	LG7	TGCAGATCGCGACGTAG
29.84 A	D4	mab224562M	LG7	TGCAGATGGCGTGCTG
29.84 A	D4	mab270862M	LG7	TGCAGCCGCCGCAAGG
29.84 A	D4	mab262172M	LG7	TGCAGCGTGCTCCTCGA
29.84 A	D4	mab225702M	LG7	TGCAGAGGAGAGGAGG
29.84 A	D4	mab225842M	LG7	TGCAGAGCTCTTTTGCT
29.84 A	D4	mab225942M	LG7	TGCAGAGCGAGAGGCA
29.84 A	D4	mab224512M	LG7	TGCAGATGTACGATGCC
29.84 A	D4	mab226072M	LG7	TGCAGAGCAACTGGCA
29.84 A	D4	mab167272M	LG7	TGCAGATGCACCTCTTG
29.84 A	D4	mab224332M	LG7	TGCAGATTGCACCACTC
29.84 A	D4	mab256852M	LG7	TGCAGGACACCTGGGG
29.84 A	D4	mab192032M	LG7	TGCAGCCGTCTGGAGTT
29.84 A	D4	mab224492M	LG7	TGCAGATGTCTGAAGAA
29.84 A	D4	mab182012M	LG7	TGCAGGGTCGACGCCG
29.84 A	D4	mab189582M	LG7	TGCAGCGGTGCGAGG
29.84 A	D4	mab166962M	LG7	TGCAGCAACAGTCCCTC
29.84 A	D4	mab179122M	LG7	TGCAGTCGATTGAGGAC
29.84 A	D4	mab199452M	LG7	TGCAGACCGCCGTTTCT

29.84 A	D4	mab201602M	LG7	TGCAGCTTTGCTCTGCC
29.84 A	D4	mab221002M	LG7	TGCAGCCGCGGCAGGC
29.84 A	D4	mab219012M	LG7	TGCAGCGGCGTTTTCTC
29.84 A	D4	mab216232M	LG7	TGCAGCTTTTCGTCCTCA
29.84 A	D4	mab223542M	LG7	TGCAGCACTGCCGCTCC
29.84 A	D4	mab167602M	LG7	TGCAGAGTATCCTCACC
29.84 A	D4	mab216162M	LG7	TGCAGGAAATTGTTAGC
29.84 A	D4	mab181182M	LG7	TGCAGGTGAAGCTTCAT
29.84 A	D4	mab203032M	LG7	TGCAGGTGCAGTGGCA
29.84 A	Cod	mab5481 2M	LG7	TGCAGGCGCCGTCGAG
29.84 AB	Cod	mab164482M	LG7	TGCAGCGAGGTACGTCA
29.84 AB	Cod	mab9117 2M	LG7	TGCAGATTGTGAATGTT
29.84 AB	Cod	mab121002M	LG7	TGCAGTGGGAGCACGA
29.84 AB	Cod	mab116232M	LG7	TGCAGGAGGAGTCAACC
29.84 A	D4	mab215732M	LG7	TGCAGGACCGATCATTT
29.84 A	D4	mab216292M	LG7	TGCAGCTTAAATGTCTCC
29.84 A	D4	mab196392M	LG7	TGCAGCAACGCCATGG
29.84 A	D4	mab225022M	LG7	TGCAGATCCTTCAGGTT
29.84 A	D4	mab180562M	LG7	TGCAGGTTCCACCATGA
29.84 A	D4	mab240922M	LG7	TGCAGCAACAAATGGG
29.84 A	D4	mab225312M	LG7	TGCAGAGTGGTGGTACC
29.84 A	D4	mab215712M	LG7	TGCAGGACCTCCTAATC
29.84 A	D4	mab188342M	LG7	TGCAGCTCCTCTACATT
29.84 A	D4	mab181172M	LG7	TGCAGGTGAAGTCGGAA
29.84 A	D4	mab266982M	LG7	TGCAGCTGCACATGGCC
29.84 A	D4	mab223732M	LG7	TGCAGCACCCGCCACCA
29.84 A	D4	mab263482M	LG7	TGCAGCGGCATCGAGCT
29.84 A	D4	mab191462M	LG7	TGCAGCCTGGTAGAAGC
29.84 A	D4	mab225442M	LG7	TGCAGAGGTGCCTGAA
29.84 A	D4	mab180872M	LG7	TGCAGGTGGATCTACCT
30.96 S	Cod	mab1614 2M	LG7	TGCAGTGTTCTTGTGTA
30.96 B	D4	mab215412M	LG7	TGCAGGAGCAATGGCG
30.96 B	D5	mab129762M	LG7	TGCAGGGAGTAAGTGA
30.96 A	D4	mab239602M	LG7	TGCAGCCGAGCTCCCCA
30.96 A	D4	mab271582M	LG7	TGCAGAGATGGACGGT
30.96 A	D4	mab185562M	LG7	TGCAGGAGGTCGACAG
31.63 S	Cod	mab809 2M	LG7	TGCAGCGTCCGCTCAGA
31.63 B	D4	mab265012M	LG7	TGCAGTGTCGAGCTGCC
31.63 B	Cod	mab5202 2M	LG7	TGCAGGAGTTAGGTGG
31.63 B	D5	mab162952M	LG7	TGCAGCTGCATCAGCAC
31.63 B	D5	mab9064 2M	LG7	TGCAGCTGTCCGGAAG
31.63 B	D4	mab199762M	LG7	TGCAGACACGTACGTGC
31.63 B	D5	mab100792M	LG7	TGCAGCGGCATCAGCCA
31.63 A	D5	mab9539 2M	LG7	TGCAGGCGGCTGTTGA
31.63 A	D4	mab225072M	LG7	TGCAGATCCCAAGCCCC
31.63 A	D4	mab274922M	LG7	TGCAGGAGCCCCGAGAT
31.63 A	D5	mab129942M	LG7	TGCAGAGAGCAATTATT
34.11 S	Cod	mab5661 2M	LG7	TGCAGGTAGTACTGCTT

34.11 B	D5	mab8107 2M	LG7	TGCAGCTTCGGCAGGTC
34.11 B	D5	mab8561 2M	LG7	TGCAGCTCCACGTCACC
34.11 B	D5	mab7036 2M	LG7	TGCAGCTCAACCAAACA
34.11 A	Cod	mab5324 2M	LG7	TGCAGACCTTGACGAGA
34.11 A	D4	mab226142M	LG7	TGCAGAGAGTATGTGTG
34.11 A	D4	mab273882M	LG7	TGCAGAAGATTCCGATT
34.11 A	D4	mab198292M	LG7	TGCAGAGCTGAAGTGC
34.11 A	D4	mab274302M	LG7	TGCAGGCCGGTAGCTCT
34.11 A	D4	mab202562M	LG7	TGCAGTGAATCTTGTAG
34.11 A	D4	mab217302M	LG7	TGCAGCTGCCGATGCTC
34.11 A	D4	mab201952M	LG7	TGCAGTCGCTTTGTCC
34.11 A	D4	mab212182M	LG7	TGCAGGGGGCATGGCT
34.11 A	D4	mab184672M	LG7	TGCAGGCCAGATCCGCC
35 S	Cod	mab780 2M	LG7	TGCAGCGTCCATAAAGC
35 B	D4	mab212092M	LG7	TGCAGGGGGTTCAAATC
35 B	D4	mab175712M	LG7	TGCAGAGGAGGTGGGT
35 B	D4	mab208202M	LG7	TGCAGTGGCCGTACGCC
35 B	D4	mab242672M	LG7	TGCAGCGCACCACTGC
35 B	D4	mab228942M	LG7	TGCAGGGGTGGGTGGG
35 B	D4	mab193142M	LG7	TGCAGCCCCAGCCCAC
35 A	Cod	mab4778 2M	LG7	TGCAGGTGCCTGTTACA
35 A	Cod	mab5690 2M	LG7	TGCAGCTGCCGTCGGTC
35 AB	Cod	mab233022M	LG7	TGCAGCAGGCATAGAAC
35 A	Cod	mab2404 2M	LG7	TGCAGACGCGCTCCCG
35 A	D5	mab8391 2M	LG7	TGCAGCCTGCTGCTCG
37.52 S	Cod	mab1719 2M	LG7	TGCAGCGTGGTCGACCC
37.52 B	D5	mab158652M	LG7	TGCAGTGCAATCGAGAC
37.52 B	D5	mab155082M	LG7	TGCAGAACAAAAACATC
37.52 B	D5	mab8638 2M	LG7	TGCAGAGGAGCGGCAT
37.97 S	Cod	mab4025 2M	LG7	TGCAGCAGGAGCACTG
38.19 S	Cod	mab3891 2M	LG7	TGCAGCACGAAGACAG
38.19 B	D5	mab126122M	LG7	TGCAGCGACCAACCAC
38.19 B	D4	mab184372M	LG7	TGCAGGCCGTGGGCGA
38.19 B	D5	mab163192M	LG7	TGCAGCTCCTTCTCTT
38.19 A	Cod	mab1643 2M	LG7	TGCAGCAGCGGAAGAT
38.19 AB	Cod	mab8075 2M	LG7	TGCAGGTCGGCAACTC
38.19 A	D4	mab207832M	LG7	TGCAGTTAATTCAGCGC
38.19 A	D4	mab177362M	LG7	TGCAGTTCAGTGGCACT
38.19 A	D4	mab166392M	LG7	TGCAGCAGAGATGGGC
38.19 A	D4	mab255722M	LG7	TGCAGTATTAGCCGTCA
38.19 A	D4	mab278442M	LG7	TGCAGAGATCAGGCCG
38.19 A	D4	mab211722M	LG7	TGCAGGTAGCCACCCT
38.19 A	Cod	mab5207 2M	LG7	TGCAGGGCACTAAACA
38.19 A	D4	mab249892M	LG7	TGCAGGAGACGGTGGC
40.68 S	Cod	mab4597 2M	LG7	TGCAGCGGCCGCACCT
40.9 S	Cod	mab1578 2M	LG7	TGCAGGAGAAGAGGGG
40.9 B	D4	mab199612M	LG7	TGCAGACATGCATACGT
40.9 B	D4	mab207542M	LG7	TGCAGTTGAAGCACTTG

40.9 B	D4	mab195142M	LG7	TGCAGCAGCAGCCCTCC
40.9 B	D4	mab278262M	LG7	TGCAGCGGTTCTTCCC
40.9 B	D5	mab7724 2M	LG7	TGCAGCTCCAAGCGTAC
40.9 A	D5	mab164242M	LG7	TGCAGCGCCGTTCCGGA
40.9 A	D5	mab158122M	LG7	TGCAGTTCAGGGCCAGC
40.9 A	Cod	mab5167 2M	LG7	TGCAGGTCCGGCGACG
40.9 A	Cod	mab2087 2M	LG7	TGCAGCGGCGACGCCA
40.9 A	D5	mab8435 2M	LG7	TGCAGAGTCCGTGTCCT
40.9 A	D5	mab6137 2M	LG7	TGCAGGTAGAAGCAATC
40.9 AB	D5	mab101832M	LG7	TGCAGCTGCTGTACGTC
40.9 AB	D5	mab119742M	LG7	TGCAGCTCACTCCTCTC
40.9 AB	D5	mab118752M	LG7	TGCAGGCGCCCTCCACC
40.9 AB	D5	mab7371 2M	LG7	TGCAGGACTGCGGCGT
40.9 AB	D5	mab8206 2M	LG7	TGCAGGAAGTACAACAC
40.9 AB	D5	mab7572 2M	LG7	TGCAGTCGAGGAGCTCA
40.9 A	Cod	mab2856 2M	LG7	TGCAGGAGTCGGCGTTG
40.9 A	Cod	mab1012 2M	LG7	TGCAGCGGCTTCTCTGC
40.9 AB	Cod	mab126332M	LG7	TGCAGCCGCTGTCTGTC
42.93 S	Cod	mab5484 2M	LG7	TGCAGGGCTGCAAGGC
42.93 B	D4	mab217972M	LG7	TGCAGCTCCCGGCGGT
42.93 B	D4	mab192842M	LG7	TGCAGCCCTCTCACCCG
42.93 A	Cod	mab408 2M	LG7	TGCAGCTGGGCGACAA
42.93 AB	Cod	mab4505 2M	LG7	TGCAGGACCCCCGCATC
42.93 AB	Cod	mab4249 2M	LG7	TGCAGATTGCGTACGCT
42.93 AB	Cod	mab1948 2M	LG7	TGCAGAGGCAGGCACG
42.93 A	Cod	mab5741 2M	LG7	TGCAGCAAGAATGGCA
42.93 A	D4	mab189092M	LG7	TGCAGCGTCGTGGACAT
42.93 A	D4	mab164812M	LG7	TGCAGCCTACTGCGTCC
42.93 A	D4	mab269442M	LG7	TGCAGAAACCTCTCCCC
44.5 S	Cod	mab5710 2M	LG7	TGCAGTTGCCGTGCACA
44.5 B	D5	mab8919 2M	LG7	TGCAGAGGGTACGGTG
44.5 B	D4	mab247562M	LG7	TGCAGCGTACTGGTGAA
45.18 S	Cod	mab5334 2M	LG7	TGCAGGTCGTACCTTCA
45.18 A	D4	mab216542M	LG7	TGCAGCTTCGAGGATGC
45.86 S	Cod	mab1487 2M	LG7	TGCAGGCCATCAAGTCG
46.08 S	Cod	mab3524 2M	LG7	TGCAGTTCATACCCTCA
46.08 B	Cod	mab1061 2M	LG7	TGCAGAGCAAAAATCCA
46.08 B	D5	mab9511 2M	LG7	TGCAGTCGCTGTTGCGC
46.08 B	D5	mab158192M	LG7	TGCAGCGTAGCGTGAA
46.08 B	D5	mab126292M	LG7	TGCAGCCGTTGCAGCTC
46.08 B	D5	mab9203 2M	LG7	TGCAGCTCCTAGCTCGC
46.08 B	D5	mab9561 2M	LG7	TGCAGCTTGTACCCATG
46.08 B	D5	mab9053 2M	LG7	TGCAGGAGGCATGCTCC
46.08 A	Cod	mab1561 2M	LG7	TGCAGCCGTCGCAGCAC
46.08 A	D4	mab271112M	LG7	TGCAGCCTCGACCCAA
46.08 A	D4	mab233182M	LG7	TGCAGGAGGCGGAGGC
46.08 A	D4	mab267332M	LG7	TGCAGCATCCCGGCACC
46.08 A	D4	mab280962M	LG7	TGCAGGGCGTCTTGTC

46.08 A	D4	mab200932M	LG7	TGCAGAAAAATGAGGT
46.08 A	D4	mab281282M	LG7	TGCAGGGTGCCATGGC
46.08 A	D4	mab275682M	LG7	TGCAGCTGCGTCACGGT
46.08 A	Cod	mab2472 2M	LG7	TGCAGCTGTGTGCGTGT
46.08 AB	Cod	mab203942M	LG7	TGCAGGAGCTAGAACCA
46.08 AB	Cod	mab210532M	LG7	TGCAGGTTTGGTCTGCC
46.97 S	Cod	mab5696 2M	LG7	TGCAGGCCGCCGCTCT
46.97 A	Cod	mab5073 2M	LG7	TGCAGGCCGCCGCCCC
46.97 A	D4	mab256222M	LG7	TGCAGGTACGTCTACGT
46.97 A	D4	mab276242M	LG7	TGCAGCAGGAACTAATC
46.97 A	D5	mab9881 2M	LG7	TGCAGCAGGGGCGGCA
46.97 AB	D5	mab8881 2M	LG7	TGCAGCAGCGGGTCCGG
46.97 A	D4	mab254912M	LG7	TGCAGCCATTCTTCTGC
46.97 A	D4	mab263122M	LG7	TGCAGGCAAAACATGTC
51.08 S	Cod	mab708 2M	LG7	TGCAGTGCCAGTGCG
51.08 A	D5	mab9953 2M	LG7	TGCAGCAGCACGTGGTC
51.08 AB	D5	mab140182M	LG7	TGCAGTTGTATGCTCTCA
51.08 AB	D5	mab7841 2M	LG7	TGCAGTGTGAGGAATGC
51.08 A	D5	mab109622M	LG7	TGCAGTGCCCTTGCCCTC
51.08 AB	D5	mab117852M	LG7	TGCAGCACAGAGTGCA
51.08 A	D5	mab141972M	LG7	TGCAGTCCGTGGAGTAC
51.08 A	D5	mab102252M	LG7	TGCAGTTGAGGCGGGTA
52.2 S	Cod	mab5478 2M	LG7	TGCAGGAGCGTGCTCC
52.64 S	Cod	mab845 2M	LG7	TGCAGGTAGTAGCTCTC
52.64 B	D4	mab186222M	LG7	TGCAGGACGGGCGGAG
52.64 B	D4	mab253042M	LG7	TGCAGCCTCCTCATCTG
52.64 B	D4	mab229352M	LG7	TGCAGAATCAGTTTAAG
52.64 B	D4	mab248372M	LG7	TGCAGTCGTTCCGACGCT
52.64 B	D4	mab191302M	LG7	TGCAGCGAAATACGGGT
52.64 B	D4	mab242412M	LG7	TGCAGAACAAGAGCGA
52.64 B	D4	mab210712M	LG7	TGCAGGTTCTTCATGGA
52.64 B	D4	mab211902M	LG7	TGCAGGGTGGTCAGCG
52.64 A	D4	mab238082M	LG7	TGCAGCTGCGTCAAGG
52.64 A	D4	mab217752M	LG7	TGCAGCTCGTCCATGAC
52.64 A	D4	mab244572M	LG7	TGCAGGCACTCACTCCA
52.64 A	D4	mab166442M	LG7	TGCAGCACTGGTGCCAC
52.64 A	D4	mab190472M	LG7	TGCAGCGCGCCCCGCC
52.64 A	D4	mab236342M	LG7	TGCAGGGCTGAACGTAC
52.64 A	D4	mab183592M	LG7	TGCAGGCTCAGCGTCA
52.64 A	Cod	mab2139 2M	LG7	TGCAGCGCCGCGACGT
52.64 A	D4	mab250602M	LG7	TGCAGAAGTCGGGGCT
52.64 A	D4	mab217072M	LG7	TGCAGCTGCTTGATACG
52.64 A	D4	mab214992M	LG7	TGCAGGATCAAGACATG
55.35 S	Cod	mab4922 2M	LG7	TGCAGGGAGATCACGCC
55.35 B	D4	mab167632M	LG7	TGCAGAGGTAGAAACAC
55.57 S	Cod	mab1875 2M	LG7	TGCAGGACACCATTTAC
55.57 B	Cod	mab966 2M	LG7	TGCAGAAGAGTTCAGTT
55.57 A	D4	mab212492M	LG7	TGCAGGGCGGCATTTTC

55.57 A	D4	mab253162M	LG7	TGCAGACACTGACCAGC
56.01 S	Cod	mab51 2M	LG7	TGCAGCAGTTGTCAGTA
56.01 B	D4	mab211292M	LG7	TGCAGGTGCCCAAGG
56.01 B	D4	mab204702M	LG7	TGCAGCTACCATTGATA
56.01 A	D4	mab167012M	LG7	TGCAGCAAATTTGGCT
56.01 A	D4	mab167642M	LG7	TGCAGAGGGCGTCGGT
56.01 A	D4	mab247322M	LG7	TGCAGTGTCGTGCGCGT
56.01 A	Cod	mab4143 2M	LG7	TGCAGATAAGGTGACGA
56.01 AB	Cod	mab9536 2M	LG7	TGCAGGCTGGCGTGGC
57.58 S	Cod	mab929 2M	LG7	TGCAGGAAGTCCCAGG
57.58 B	D5	mab104242M	LG7	TGCAGCGCTCCGCCCTC
57.58 A	Cod	mab1661 2M	LG7	TGCAGATGCTTTGCCCG
57.58 A	D5	mab9843 2M	LG7	TGCAGCCTCGTCTTGCT
57.58 A	D5	mab110652M	LG7	TGCAGGGCACCTTTGTC
57.58 A	D4	mab271872M	LG7	TGCAGTGAGACTCTCGT
57.58 A	D4	mab230192M	LG7	TGCAGCAGCAGCTGCA
58.25 S	Cod	mab1101 2M	LG7	TGCAGCGGGCGCAGTG
58.25 A	Cod	mab5731 2M	LG7	TGCAGCCCATGCCGCTA
58.25 AB	Cod	mab161042M	LG7	TGCAGGCGCGAGGGCA
58.92 S	Cod	mab4591 2M	LG7	TGCAGGCCCGCTCTTC
58.92 B	D4	mab237432M	LG7	TGCAGGACCTGATGAAC
58.92 B	D4	mab248062M	LG7	TGCAGCGGCGCGGGAG
58.92 B	D4	mab220402M	LG7	TGCAGCGACCATGTGAC
58.92 B	D4	mab197992M	LG7	TGCAGAGGCTGCCGATC
58.92 B	D4	mab210142M	LG7	TGCAGTACTGTGCCACA
58.92 A	D5	mab7287 2M	LG7	TGCAGCACGCGCAGGT
58.92 AB	D5	mab151432M	LG7	TGCAGCAGCAGCAGCA
59.36 S	Cod	mab1791 2M	LG7	TGCAGCGACGAGTGCC
59.36 B	Cod	mab1791 2M	LG7	TGCAGCGACGAGTGCC
59.36 B	D5	mab157892M	LG7	TGCAGTTTACATGTGGC
59.36 B	D5	mab6946 2M	LG7	TGCAGACTGTTTCAATC
59.36 B	D5	mab6140 2M	LG7	TGCAGTGGGCACGGGA
59.36 A	D5	mab109862M	LG7	TGCAGTCGGGCACTTCA
59.36 A	D5	mab133972M	LG7	TGCAGCGAGCGTTGTG
59.36 A	D5	mab135442M	LG7	TGCAGATAGAGAGGTG
59.36 A	Cod	mab2860 2M	LG7	TGCAGAAGGGTGTGTCC
59.36 AB	Cod	mab177512M	LG7	TGCAGTTAATCAAGAAA
59.36 AB	Cod	mab260352M	LG7	TGCAGTCTGGTGGTTGG
59.36 A	D5	mab9192 2M	LG7	TGCAGGCCTAGACCATA
60.48 S	Cod	mab79 2M	LG7	TGCAGTAGGGCGTGTCC
60.48 B	D4	mab176322M	LG7	TGCAGAACAAACAACATC
60.48 B	D4	mab168342M	LG7	TGCAGACGGCAGCATCC
60.92 S	Cod	mab79 2M	LG7	TGCAGTAGGGCGTGTCC
60.92 A	Cod	mab89 2M	LG7	TGCAGCGAGGAGTGCC
61.59 S	Cod	mab2836 2M	LG7	TGCAGAAGGGCGTGTCC
61.59 B	D4	mab176332M	LG7	TGCAGAAATGCTTGACG
61.59 B	D4	mab176312M	LG7	TGCAGAACCATACAGAG
61.59 A	D4	mab167702M	LG7	TGCAGAGGCGGGAGGC

62.03 S	Cod	mab1345	2M	LG7	TGCAGCGAGGAGTGCC
62.03 B	D5	mab6867	2M	LG7	TGCAGGCGTAGCGGCA
62.25 S	Cod	mab4026	2M	LG7	TGCAGCGAGGAGTGCC
62.25 B	D5	mab6868	2M	LG7	TGCAGCCCCGTTCTGC
62.25 A	Cod	mab1018	2M	LG7	TGCAGCGAGGAGTGCC
63.38 S	Cod	mab1310	2M	LG7	TGCAGGACAATGAAGG
63.38 B	D4	mab2442	12M	LG7	TGCAGGGACGTGAAGA
63.38 B	D4	mab2529	02M	LG7	TGCAGGGGTCCGTGGC
63.38 A	D5	mab1109	62M	LG7	TGCAGGCCCTGCTCGC
66.58 S	Cod	mab939	2M	LG7	TGCAGTGGATTCTCTT
66.58 B	D5	mab7517	2M	LG7	TGCAGGGAAGATGGAC
66.58 A	D4	mab1871	12M	LG7	TGCAGCTTCCATATAC
66.58 A	D5	mab8845	2M	LG7	TGCAGCGGCGAGAAGA
66.58 A	D5	mab7051	2M	LG7	TGCAGATCAGCAAGGG
66.58 A	Cod	mab3915	2M	LG7	TGCAGGATAAGCAATTA
66.58 AB	Cod	mab3290	2M	LG7	TGCAGGAGCTGGTCGC
66.58 A	D4	mab2492	62M	LG7	TGCAGTAGGAGGTTTAG
66.58 A	Cod	mab3981	2M	LG7	TGCAGCAGCAGCACCT
66.58 AB	Cod	mab8179	2M	LG7	TGCAGATCGGCGTCGAC
66.58 A	D5	mab1523	62M	LG7	TGCAGATTGGAGGGGA
66.58 A	D4	mab2283	52M	LG7	TGCAGCTCGGTGAAGT
66.58 A	D5	mab1256	92M	LG7	TGCAGCGCTCCAGCGA
66.58 A	Cod	mab2348	2M	LG7	TGCAGGGTGCTTGCCG
66.58 A	D4	mab2277	92M	LG7	TGCAGAAAGAAGAAAAT
69.53 S	Cod	mab3444	2M	LG7	TGCAGAAGTCCACGGT
69.53 B	D4	mab1860	32M	LG7	TGCAGGAGAGCTCGCC
69.53 B	D4	mab1670	52M	LG7	TGCAGCAAAGAAGAAA
69.53 B	D5	mab1307	82M	LG7	TGCAGTCCGCTCTGTGT
69.53 B	D5	mab7813	2M	LG7	TGCAGGGCACCGTGAC
69.53 B	D5	mab8833	2M	LG7	TGCAGCTCACGGTGGAC
69.53 B	D4	mab2256	92M	LG7	TGCAGAGGAGCAGACG
69.53 B	D5	mab7164	2M	LG7	TGCAGCAGCTGTGCCCA
69.53 B	D5	mab6142	2M	LG7	TGCAGTGGCGAACCCAT
69.53 B	D5	mab7714	2M	LG7	TGCAGCATTATGAAACG
69.53 B	D4	mab2738	22M	LG7	TGCAGATAACCAAAAAG
69.53 B	D4	mab1963	52M	LG7	TGCAGCAACGGGCACC
69.53 B	D5	mab1212	72M	LG7	TGCAGTGCAACATGCAT
69.53 B	D5	mab1159	02M	LG7	TGCAGGCTTCATGACCT
69.53 B	D5	mab6213	2M	LG7	TGCAGCGCCTCTTTAT
69.53 A	D5	mab1581	72M	LG7	TGCAGTTAGCAGCCCG
69.53 A	D4	mab2636	12M	LG7	TGCAGCGCCGCAGATCA
69.53 A	D4	mab2163	32M	LG7	TGCAGCTTGGCGGCAG
69.53 A	Cod	mab2580	2M	LG7	TGCAGTGTGAGGGTCAG
69.53 A	Cod	mab3554	2M	LG7	TGCAGTGAGGATGGAG
69.53 AB	Cod	mab2723	62M	LG7	TGCAGGCAACGCGGTG
69.53 AB	Cod	mab7682	2M	LG7	TGCAGGCTGCTAGGAG
69.53 AB	Cod	mab2249	12M	LG7	TGCAGATCGCTGATGAG
69.53 AB	Cod	mab1847	62M	LG7	TGCAGGCATCCGAAACT

69.53 AB	Cod	mab226022M	LG7	TGCAGAGCAGCGACAG
69.53 AB	Cod	mab225212M	LG7	TGCAGATAGCTAGATGG
69.53 AB	Cod	mab124972M	LG7	TGCAGCTCCAGTCAGGG
69.53 A	D4	mab178832M	LG7	TGCAGTCTCCGCGTTCCG
71.11 S	Cod	mab583 2M	LG7	TGCAGTGCCGCAACATC
71.11 B	D4	mab168602M	LG7	TGCAGAATCTGCTCGCG
71.11 B	D4	mab240982M	LG7	TGCAGATTTCCGCCCAAG
71.11 A	Cod	mab785 2M	LG7	TGCAGTACTGTGTTATCC
71.11 A	Cod	mab115 2M	LG7	TGCAGTCTCCATCTGATT
71.11 A	D5	mab8208 2M	LG7	TGCAGATGCCGCCCATC
71.11 A	D4	mab206582M	LG7	TGCAGAGATTTCAATGTA
72.47 S	Cod	mab691 2M	LG7	TGCAGCGGCATGGCTG
72.47 B	D4	mab264112M	LG7	TGCAGAAGCGGCCCTT
72.47 B	D4	mab277682M	LG7	TGCAGCCTTGCTCACTC
72.47 B	D4	mab206222M	LG7	TGCAGATCGGCGGCGTA
72.47 B	D5	mab154282M	LG7	TGCAGACCCAGCTACGT
72.47 A	D4	mab271102M	LG7	TGCAGTCCACCCCGCGT
72.47 A	D5	mab119862M	LG7	TGCAGCGGCGGCAAGC
72.47 A	Cod	mab1280 2M	LG7	TGCAGCTTTGCGGGTTG
72.47 A	D4	mab168412M	LG7	TGCAGACGACGATGATC
72.47 A	D4	mab265162M	LG7	TGCAGCAGGCAGAACAT
74.49 S	Cod	mab2893 2M	LG7	TGCAGGGACGGCCTCT
74.49 B	D4	mab168492M	LG7	TGCAGTCCCCAGCTTGC
74.49 B	Cod	mab1353 2M	LG7	TGCAGCTGCGGCAGATC
74.49 B	D5	mab6223 2M	LG7	TGCAGCTGTTGGCGATC
74.49 B	D4	mab277942M	LG7	TGCAGGGCGGCGTCCG
74.49 B	D4	mab180622M	LG7	TGCAGGTTATGGTATATT
74.49 B	D4	mab205692M	LG7	TGCAGCAGTAGCAGGAC
74.49 B	D5	mab101452M	LG7	TGCAGATCCTGCTTTTC
74.49 B	D4	mab265682M	LG7	TGCAGTCTTGATCCTG
74.49 B	D4	mab196732M	LG7	TGCAGATTTAGGCGCAA
74.49 B	D4	mab187782M	LG7	TGCAGCTGCATCAGGTC
74.49 B	D5	mab125732M	LG7	TGCAGCGCCGTGTATCT
74.93 S	Cod	mab2166 2M	LG7	TGCAGGGCCTCGGCTCC
74.93 B	D5	mab6230 2M	LG7	TGCAGCTTGTGTGGGA
74.93 A	Cod	mab121 2M	LG7	TGCAGGGTGGGCTTACC
74.93 A	Cod	mab5105 2M	LG7	TGCAGACAGCGTCGAA
74.93 A	D5	mab100392M	LG7	TGCAGCTTGAGAGGTG
76.05 S	Cod	mab3363 2M	LG7	TGCAGCCGCTTGAGGG
76.05 B	D4	mab176692M	LG7	TGCAGTTTAGTAGCTGC
76.05 A	D5	mab131372M	LG7	TGCAGGGTGTCAAGAA
76.72 S	Cod	mab4239 2M	LG7	TGCAGTTGGTCTCCCA
76.72 B	D4	mab179182M	LG7	TGCAGTCTGCGCCCTA
76.72 B	D4	mab240062M	LG7	TGCAGCATCTCCTAGTC
76.72 B	D4	mab267112M	LG7	TGCAGCAGCACATCTTC
76.72 B	D4	mab226012M	LG7	TGCAGAGCCATCACCAG
76.72 B	D4	mab189642M	LG7	TGCAGCGGCGTCCGAT
76.72 B	D4	mab223512M	LG7	TGCAGCACTGGCTTGG

77.84 S	Cod	mab3865	2M	LG7	TGCAGTCTCCGTCACCC
78.28 S	Cod	mab1407	2M	LG7	TGCAGCTGCTCTTGATC
78.28 A	Cod	mab909	2M	LG7	TGCAGTTCATCGACACC
78.28 A	D4	mab184662M		LG7	TGCAGGCCAGCACCCGC
78.28 A	D5	mab7689	2M	LG7	TGCAGCGATCGTCGCCA
78.28 AB	D5	mab9413	2M	LG7	TGCAGCCAACGTGGAG
78.28 AB	D5	mab123462M		LG7	TGCAGGCCATTGCGGCC
78.28 AB	D5	mab131062M		LG7	TGCAGGTGTTGGATTGC
78.28 A	D5	mab7127	2M	LG7	TGCAGCTTGCCCGCTAC
82.16 S	Cod	mab414	2M	LG7	TGCAGGGTGCTGTCTCC
82.16 B	Cod	mab63	2M	LG7	TGCAGCGCACAAAGACA
82.16 A	D5	mab6240	2M	LG7	TGCAGCAGGCAGCAATC
82.16 AB	D5	mab9067	2M	LG7	TGCAGCTGGGGGACAA
82.16 AB	D5	mab6144	2M	LG7	TGCAGAAAAGGGGATG
82.16 AB	D5	mab163282M		LG7	TGCAGCTCCAAGGCGTC
82.16 AB	D5	mab121462M		LG7	TGCAGTCGCAGGAACG
82.16 A	Cod	mab1996	2M	LG7	TGCAGGTAACCAATCAA
82.16 A	D4	mab216182M		LG7	TGCAGGAAATGAATGGC
82.16 A	D4	mab241932M		LG7	TGCAGACCGAAGGATCT
82.16 A	Cod	mab118	2M	LG7	TGCAGCAATCGCTAGTT
82.16 AB	Cod	mab132862M		LG7	TGCAGCTGTAGCGTCCA
82.83 S	Cod	mab53	2M	LG7	TGCAGCAGCGGCCCGCC
82.83 B	Cod	mab1424	2M	LG7	TGCAGCAGAGCCTGGCC
83.05 S	Cod	mab669	2M	LG7	TGCAGCAGGGCGTGCC
83.05 B	D5	mab7320	2M	LG7	TGCAGACGGCGGGCAA
83.05 B	D5	mab130842M		LG7	TGCAGTCCACATGCGTG
83.05 B	D4	mab225812M		LG7	TGCAGAGCTGCGAGGC
83.05 B	D4	mab181612M		LG7	TGCAGGTCAACAGAACA
83.05 B	D4	mab184072M		LG7	TGCAGGCCCGCCGCTCC
83.05 B	D4	mab183182M		LG7	TGCAGGGAACGACGGA
83.05 B	D4	mab196722M		LG7	TGCAGATTTGGGTTAAA
83.05 B	D4	mab168622M		LG7	TGCAGAATCATGATTAA
83.05 B	D4	mab196342M		LG7	TGCAGCAACGTACGTAC
83.05 B	D4	mab168752M		LG7	TGCAGAAGCCAGTGTTC
83.05 B	D4	mab279872M		LG7	TGCAGTAATTCAAAACAT
83.05 B	D4	mab167062M		LG7	TGCAGCAAACGCTTTGC
83.05 B	D4	mab206842M		LG7	TGCAGACAACCAAACA
83.05 B	D4	mab271702M		LG7	TGCAGCTGCTCTGGCT
83.05 B	D4	mab224202M		LG7	TGCAGCAAAGGCCATT
83.05 B	D4	mab223942M		LG7	TGCAGCAATTAAGTGGT
83.05 B	D4	mab270782M		LG7	TGCAGATCGACCACGTG
83.05 B	D4	mab240862M		LG7	TGCAGCAAGAACTCCAT
83.05 B	D4	mab270642M		LG7	TGCAGCGGGAACGTCT
83.05 B	D4	mab267992M		LG7	TGCAGAGAAACATCGGC
83.05 A	Cod	mab2840	2M	LG7	TGCAGCGGACGATGTTG
83.05 A	D5	mab6145	2M	LG7	TGCAGACTGAACAACAT
83.05 A	D5	mab102152M		LG7	TGCAGCAGTTGGTCTGC
83.05 AB	D5	mab9898	2M	LG7	TGCAGCACGCCATCACCC

83.05 AB	D5	mab158682M	LG7	TGCAGTGCAACAATGAG
83.05 AB	D5	mab6215 2M	LG7	TGCAGCGCCATCCAGCC
83.05 AB	D5	mab116992M	LG7	TGCAGCGGCAGCGGCA
83.05 A	D5	mab136422M	LG7	TGCAGGCGATGTGTGG
83.05 A	D5	mab136552M	LG7	TGCAGTGGCGCTCATCC
83.05 A	Cod	mab570 2M	LG7	TGCAGCAGCGGCCCGG
83.05 A	Cod	mab3426 2M	LG7	TGCAGGACGGCTGGTC
83.05 A	D5	mab110742M	LG7	TGCAGGCTCGCTGCTCA
83.05 A	D5	mab152472M	LG7	TGCAGATGTAATCGGTT
83.05 A	D5	mab6147 2M	LG7	TGCAGAAAAGGGGATG
83.05 A	Cod	mab948 2M	LG7	TGCAGCAACGGCCCGG
83.05 AB	Cod	mab196742M	LG7	TGCAGATTTAAGGGGTC
83.05 AB	Cod	mab274252M	LG7	TGCAGCGCCAGCGCGA
83.05 AB	Cod	mab225002M	LG7	TGCAGATCGACCACAAC
83.05 A	D5	mab124212M	LG7	TGCAGCTTTTCTAGGGA
83.05 A	D5	mab155762M	LG7	TGCAGTGC CGCATAAA
83.05 A	D5	mab6217 2M	LG7	TGCAGATCCTCAGGTT
83.05 A	Cod	mab3229 2M	LG7	TGCAGGTACACGGCGCT
83.05 A	D5	mab124872M	LG7	TGCAGCTCGGTCAGTGG
83.05 A	Cod	mab2864 2M	LG7	TGCAGTAGCTGGGAGTT
83.05 A	Cod	mab5261 2M	LG7	TGCAGGCGGCCATGAA
83.05 A	D5	mab149852M	LG7	TGCAGCCGCTCGAGTAC
83.05 A	Cod	mab2863 2M	LG7	TGCAGACTCGAATTTCCG
83.05 AB	Cod	mab139592M	LG7	TGCAGAGGCTCTACTTG
83.05 AB	Cod	mab150752M	LG7	TGCAGCATTGGGTTGCC
83.05 AB	Cod	mab6146 2M	LG7	TGCAGAAAAGGGGTGG
83.05 AB	Cod	mab136342M	LG7	TGCAGAGGAAGCACGA
83.05 A	D5	mab134712M	LG7	TGCAGCAGTAAGTGAAA
89.07 S	Cod	mab5129 2M	LG7	TGCAGCTGGGGCGGCC
89.07 B	D4	mab186072M	LG7	TGCAGGAGAGATGGTG
89.07 A	D5	mab161662M	LG7	TGCAGGAGGCGGGCGA
89.07 A	D5	mab7993 2M	LG7	TGCAGAGGCCCTTCGA
89.07 A	D4	mab167752M	LG7	TGCAGAGGAGGTTGAAT
90.64 S	Cod	mab396 2M	LG7	TGCAGAGGTCTGAACG
90.64 A	D4	mab268672M	LG7	TGCAGGACGGCTGATCT
90.64 A	D4	mab206672M	LG7	TGCAGACCGGCTCTAC
91.53 S	Cod	mab110 2M	LG7	TGCAGCGGGAGGCCCT
91.53 A	D5	mab110082M	LG7	TGCAGGTTCCGCTCCGA
91.53 A	D5	mab116972M	LG7	TGCAGCGGCTCTCCGG
91.53 A	D5	mab6909 2M	LG7	TGCAGCGGGATCAAGCT
91.53 A	Cod	mab5250 2M	LG7	TGCAGCGGGAGGCCCT
91.53 A	Cod	mab2899 2M	LG7	TGCAGGAGGCTGTGCA
91.53 A	D5	mab152712M	LG7	TGCAGATGAAGGTGAA
91.53 A	D5	mab6149 2M	LG7	TGCAGCCCCGTCAACCA
91.53 A	D4	mab168512M	LG7	TGCAGACATCGAGACGA
91.53 A	Cod	mab2902 2M	LG7	TGCAGGGTGC GGGGAG
91.53 A	Cod	mab645 2M	LG7	TGCAGATCGGCTCGAC
92.42 S	Cod	mab3754 2M	LG7	TGCAGCGAGGGGACAG

92.42 B	D4	mab278432M	LG7	TGCAGCGACAAGGGGC
92.42 A	Cod	mab823 2M	LG7	TGCAGATCTCGACCCCT
92.42 AB	Cod	mab266612M	LG7	TGCAGTGGCTCCCCATC
92.42 AB	Cod	mab273582M	LG7	TGCAGGTCACAGCTATG
92.42 AB	Cod	mab255252M	LG7	TGCAGCGTCCCTCCAT
92.42 AB	Cod	mab168352M	LG7	TGCAGACGGAGTTTTTG
92.42 A	D5	mab141842M	LG7	TGCAGTCGGCGTCTCG
92.42 A	D5	mab7998 2M	LG7	TGCAGGGCAGCGTCAG
92.42 A	D5	mab122822M	LG7	TGCAGGGCCAAGGCGG
92.42 A	D4	mab240812M	LG7	TGCAGCAAGATGGTAAC
92.42 A	D4	mab240362M	LG7	TGCAGCAGCCGCTGCC
92.42 A	Cod	mab404 2M	LG7	TGCAGCAAAACAGAGC
92.42 A	D4	mab216312M	LG7	TGCAGCTGGGGTCAAC
92.42 A	Cod	mab2866 2M	LG7	TGCAGCTACCTGTTGCG
92.42 A	D4	mab196502M	LG7	TGCAGCAACCCAATGAC
92.42 A	D4	mab189122M	LG7	TGCAGCGTCGACGCGA
92.42 A	D4	mab168642M	LG7	TGCAGAATAGATCACTG
92.42 A	D4	mab225012M	LG7	TGCAGATCCTTGTGGCC
92.42 A	D4	mab225632M	LG7	TGCAGAGGAGTCACGCT
92.42 A	Cod	mab2887 2M	LG7	TGCAGAATATGGGTGTA
92.42 AB	Cod	mab121192M	LG7	TGCAGTGCAGCTGGCC
92.42 AB	Cod	mab943 2M	LG7	TGCAGGGTCGTACACAG
92.42 AB	Cod	mab943 2M	LG7	TGCAGGGTCGTACACAG
92.42 AB	Cod	mab943 2M	LG7	TGCAGGGTCGTACACAG
92.42 AB	Cod	mab157982M	LG7	TGCAGTTGCTGTTGTCT
92.42 AB	Cod	mab153282M	LG7	TGCAGAGGCCCAACCA
92.42 AB	Cod	mab6917 2M	LG7	TGCAGCAGCTAGCAAAC
92.42 A	D4	mab168682M	LG7	TGCAGAAGTCCGCCCA
92.42 A	D5	mab119612M	LG7	TGCAGGAGATCAACCA
92.42 A	Cod	mab2376 2M	LG7	TGCAGGATTTGCTAATT
92.42 A	D4	mab241712M	LG7	TGCAGAGAAGGCCCGA
96.05 S	Cod	mab2892 2M	LG7	TGCAGCTGCGGGCACG
96.05 B	Cod	mab1438 2M	LG7	TGCAGCCGCGGGCGCC
96.05 B	D4	mab266602M	LG7	TGCAGGTGGACAATATG
96.05 B	D4	mab252462M	LG7	TGCAGGTGGTAGGCCG
96.05 B	D4	mab230402M	LG7	TGCAGTCCACACATACT
96.05 B	D4	mab203132M	LG7	TGCAGGTCATACTCCAA
96.05 B	D4	mab185492M	LG7	TGCAGGATACATATGAG
96.05 B	D4	mab168442M	LG7	TGCAGACCTGGGCACT
96.05 B	D4	mab211422M	LG7	TGCAGGTCGAGTCGGC
96.05 B	D4	mab217232M	LG7	TGCAGCTGCGGCCGCC
96.05 B	D5	mab119042M	LG7	TGCAGTGGCGATTGCGA
96.05 B	D5	mab131352M	LG7	TGCAGGTAAATTGGTGC
96.05 B	D4	mab222212M	LG7	TGCAGCCAAAGTACGCC
96.05 B	D5	mab6153 2M	LG7	TGCAGGACACGCTGAC
96.05 B	D5	mab6214 2M	LG7	TGCAGAGGAACTGCCG
96.05 B	D5	mab7709 2M	LG7	TGCAGCAAGACGGAAA
96.05 A	D4	mab245312M	LG7	TGCAGCGGGACTTTGCA

96.05 A	D4	mab167812M	LG7	TGCAGAGGAAGAGGCG
96.05 A	D4	mab231052M	LG7	TGCAGCCACGGCGGGC
96.05 A	D4	mab276492M	LG7	TGCAGAACAACAACAACC
96.05 A	D4	mab229272M	LG7	TGCAGTTGGCGGCGAG
96.05 A	Cod	mab4674 2M	LG7	TGCAGGACGAAGGTGA
96.05 AB	Cod	mab7490 2M	LG7	TGCAGAGTTCAGCTGAC
96.05 AB	Cod	mab163152M	LG7	TGCAGCTCGCCCGCTC
96.05 AB	Cod	mab6212 2M	LG7	TGCAGCCCTTTATTGTCC
96.05 AB	Cod	mab110922M	LG7	TGCAGGCCGTGCGGCTC
96.05 A	D4	mab221792M	LG7	TGCAGCCAGGCGGAGC
96.49 S	Cod	mab5523 2M	LG7	TGCAGGAGCACGGGTG
96.49 B	D5	mab6228 2M	LG7	TGCAGTTCAGACCTCAG
96.49 A	D5	mab7780 2M	LG7	TGCAGCTTCTCGTGCC
96.49 A	Cod	mab112 2M	LG7	TGCAGCGTGCGCAGCA
96.49 A	Cod	mab2888 2M	LG7	TGCAGGGAGCTGTGGA
96.49 A	Cod	mab3930 2M	LG7	TGCAGACGTTGGCCGTG
96.49 A	Cod	mab2905 2M	LG7	TGCAGGAGTGCTCGATA
96.49 AB	Cod	mab264982M	LG7	TGCAGCCAACCACACCA
96.49 AB	Cod	mab194512M	LG7	TGCAGCAGGTTGGGAC
96.49 A	Cod	mab2867 2M	LG7	TGCAGGGCGTCGAACT
96.49 AB	Cod	mab136152M	LG7	TGCAGAAAAACCAATGC
96.49 AB	Cod	mab6155 2M	LG7	TGCAGCAGGGGCCTCC
96.49 A	Cod	mab1702 2M	LG7	TGCAGTCTAGCTCATGC
96.49 A	Cod	mab2904 2M	LG7	TGCAGCTTGACAGCAQ
96.49 AB	Cod	mab157882M	LG7	TGCAGTTTCAACTTTCAA
96.49 AB	Cod	mab8499 2M	LG7	TGCAGCGTCGTCGCTGC
96.49 A	Cod	mab2868 2M	LG7	TGCAGCTTGACAGCAQ
101.77 S	Cod	mab61 2M	LG7	TGCAGCACGTGCTGCTC
101.77 B	D4	mab228472M	LG7	TGCAGAGTACGCTGGAG
101.77 B	D4	mab245382M	LG7	TGCAGCGGCATGCGTAC
101.77 B	D5	mab6219 2M	LG7	TGCAGCTGCCACCTCAG
102.21 S	Cod	mab2841 2M	LG7	TGCAGCGCCTGCCTCG
102.21 B	D4	mab233912M	LG7	TGCAGCAAGAAACGCG
102.21 B	D4	mab247912M	LG7	TGCAGAGGCTCCCCGG
102.21 B	D4	mab227742M	LG7	TGCAGAAAGCCTACAGA
102.21 B	D4	mab238322M	LG7	TGCAGCTCGACGGCGG
102.21 B	D4	mab264152M	LG7	TGCAGGCTGGTCCGCC
102.21 B	D4	mab200562M	LG7	TGCAGAACCATCAAAAA
102.21 B	D4	mab167082M	LG7	TGCAGATTTTGCACGC
102.21 B	D4	mab272202M	LG7	TGCAGTTTTGCGGAGTC
102.21 B	D5	mab6084 2M	LG7	TGCAGCATGAAGGAAG
102.21 B	D5	mab7009 2M	LG7	TGCAGGAACTTCTGGAT
102.21 A	D5	mab8869 2M	LG7	TGCAGCCTGGGCGCGC
102.21 A	D4	mab176772M	LG7	TGCAGTTGTCGCTTCGG
102.21 A	D4	mab236782M	LG7	TGCAGGCCGCGAGAGGC
102.21 A	D4	mab245332M	LG7	TGCAGCGGCTACACCCA
102.21 A	D5	mab6218 2M	LG7	TGCAGCCTTTCGGAGAT
102.21 A	Cod	mab450 2M	LG7	TGCAGGGTCACCGCCT

102.21 A	D5	mab8482 2M	LG7	TGCAGGCTTCTACGGCC
102.21 A	D4	mab186672M	LG7	TGCAGGAACCCAATGTA
102.21 A	D4	mab252772M	LG7	TGCAGCGGAACGAGCC
102.21 A	Cod	mab2842-2M	LG7	TGCAGGCAGCTGAGGG
102.21 AB	Cod	mab167092M	LG7	TGCAGATTTGGTGTCTG
102.21 AB	Cod	mab273282M	LG7	TGCAGGAGTTGAGCAG
102.21 AB	Cod	mab271542M	LG7	TGCAGCCTGGACGGGA
102.21 AB	Cod	mab267672M	LG7	TGCAGCAGTCCCTCTCC
102.21 AB	Cod	mab179882M	LG7	TGCAGTAGAGGCGTCGA
102.21 A	Cod	mab2842-2M	LG7	TGCAGGCAGCTGAGGG
102.21 A	Cod	mab4941 2M	LG7	TGCAGCGGCATCAGCCA
102.21 A	D5	mab6085 2M	LG7	TGCAGCGCGGAGACGG
102.21 A	Cod	mab995 2M	LG7	TGCAGCTGCTTTGATC
102.21 AB	Cod	mab204982M	LG7	TGCAGCGCTTGGAGTAC
102.21 AB	Cod	mab7527 2M	LG7	TGCAGATCTCCGCGGCT
102.21 A	D5	mab7873 2M	LG7	TGCAGACCGTACGTGGA
102.21 AB	D5	mab104412M	LG7	TGCAGCGCAGAGAGGT
102.21 A	D5	mab117982M	LG7	TGCAGATTCTTTGCGAA
102.21 A	Cod	mab120 2M	LG7	TGCAGCGCGCGCACGG
105.16 S	Cod	mab881 2M	LG7	TGCAGGCGGCGGAGGA
105.16 B	Cod	mab107 2M	LG7	TGCAGAGCTGGACGATC
105.16 B	Cod	mab4972 2M	LG7	TGCAGATCAGCAGGGCC
105.16 B	D4	mab217322M	LG7	TGCAGCTGCCCGTGTGC
105.16 B	D4	mab246372M	LG7	TGCAGCAAGCCAGCACT
105.16 B	D4	mab253322M	LG7	TGCAGCTACGGGTTTGC
105.16 A	D5	mab6156 2M	LG7	TGCAGGCCACCACGCA
105.16 A	D4	mab209332M	LG7	TGCAGTCGACTACCCCA
105.16 A	D4	mab263522M	LG7	TGCAGCTCTCCAGCGGC
105.16 A	D4	mab179672M	LG7	TGCAGTCAAACAAGCGA
105.16 A	D4	mab179732M	LG7	TGCAGTAGTCCACATAA
105.6 S	Cod	mab92 2M	LG7	TGCAGCAGCTACTGCTG
105.6 B	D4	mab167872M	LG7	TGCAGAGCTGCATATCT
105.6 B	D5	mab124482M	LG7	TGCAGCTGGGAGAATAA
105.6 A	D4	mab182182M	LG7	TGCAGGGGGGGTTGCT
105.6 A	D4	mab227422M	LG7	TGCAGAAGACAGAATCA
105.6 A	D5	mab8883 2M	LG7	TGCAGCAGCAGCACCTC
105.6 A	Cod	mab91 2M	LG7	TGCAGGCTCAGGATCTC
109.93 S	Cod	mab2030 2M	LG7	TGCAGCCCACGGCGGA
109.93 B	D4	mab176782M	LG7	TGCAGTTGGTGCTTACC
109.93 B	D5	mab137042M	LG7	TGCAGTGCTGGCTAGCT
109.93 B	D5	mab7913 2M	LG7	TGCAGCAGCCGCTCG
109.93 B	D5	mab133432M	LG7	TGCAGCGTGAGAATTGC
109.93 B	D5	mab7908 2M	LG7	TGCAGATGGTGGAGGG
109.93 B	D5	mab8613 2M	LG7	TGCAGGGCGCTCGCGC
109.93 A	D4	mab216752M	LG7	TGCAGCTGTGGCTTTCG
109.93 A	D4	mab204912M	LG7	TGCAGCGGCAGTGCCA
109.93 A	D4	mab207212M	LG7	TGCAGTTTGTCCAACC
109.93 A	D4	mab167922M	LG7	TGCAGAGCTCAAGTCTA

109.93 A	D4	mab187132M	LG7	TGCAGCTTCATGAATTAA
109.93 A	D5	mab8253 2M	LG7	TGCAGGAGCCGCACTAT
109.93 A	Cod	mab1364 2M	LG7	TGCAGCTGGGCTCGTCC
109.93 AB	Cod	mab7858 2M	LG7	TGCAGGACAGGAACGC
109.93 A	Cod	mab475 2M	LG7	TGCAGCTGCTGGTTGGA
109.93 A	D4	mab187172M	LG7	TGCAGCTTACTAGGTGA
109.93 A	D4	mab235622M	LG7	TGCAGTAACTGCACTCG
109.93 A	D4	mab197202M	LG7	TGCAGATGACCGCCGAA
109.93 A	D4	mab184692M	LG7	TGCAGGCCAACTGCATC
109.93 A	D4	mab167122M	LG7	TGCAGATTGGGTCTTGG
109.93 A	D4	mab211762M	LG7	TGCAGGTACGGTGTGG
109.93 A	D4	mab210382M	LG7	TGCAGTAATCATCTTTAC
109.93 A	D4	mab237722M	LG7	TGCAGCTTGGTGAGCCT
109.93 A	Cod	mab1695 2M	LG7	TGCAGCGCAGAAGAAA
109.93 AB	Cod	mab1556 2M	LG7	TGCAGAAGCTAGCTAGC
109.93 A	Cod	mab1685 2M	LG7	TGCAGTGCCGAGCGTCC
109.93 A	D4	mab246512M	LG7	TGCAGATCGCGGAGTCT
109.93 A	D4	mab242032M	LG7	TGCAGACACGCTACCGC
109.93 A	Cod	mab4957 2M	LG7	TGCAGGGCGTACGCGG
109.93 A	D4	mab280152M	LG7	TGCAGTGATCGGCATGC
109.93 A	D4	mab167932M	LG7	TGCAGAGCTATCTCGGC
109.93 A	D4	mab205742M	LG7	TGCAGCAGGACTGGTG
109.93 A	D4	mab175432M	LG7	TGCAGATGGGCTGCGAA
109.93 A	D5	mab129652M	LG7	TGCAGCGTCCTGGCGCC
109.93 A	D5	mab7259 2M	LG7	TGCAGAAGGTGCCTCC
109.93 AB	D5	mab9467 2M	LG7	TGCAGAGGCTGGACCTC
109.93 AB	D5	mab131202M	LG7	TGCAGGTCTGGCGAAGT
109.93 AB	D5	mab157122M	LG7	TGCAGCATCGACCGCAC
109.93 AB	D5	mab150272M	LG7	TGCAGCCCGACGACGA
109.93 A	D4	mab214282M	LG7	TGCAGGCCACCGTCACC
114.5 S	Cod	mab94 2M	LG7	TGCAGCCGCTGGATTCA
114.5 B	Cod	mab5566 2M	LG7	TGCAGAGCTCCTGAGTC
114.5 B	Cod	mab5031 2M	LG7	TGCAGAGGGCGCGACC
114.5 B	D4	mab212772M	LG7	TGCAGGGCACAATTGTC
114.5 B	D5	mab6159 2M	LG7	TGCAGTGTGGTGGAGC
114.5 B	D4	mab167942M	LG7	TGCAGAGCGTGAAGC
114.5 B	D5	mab9121 2M	LG7	TGCAGATGATGCAGTCC
114.5 A	D4	mab249862M	LG7	TGCAGAAGGGCAGCTC
114.5 A	D5	mab154802M	LG7	TGCAGAACGACACCTGC
114.5 A	D4	mab218072M	LG7	TGCAGCTCATGCATTA
114.5 A	Cod	mab2356 2M	LG7	TGCAGTGGCAACAATTA
114.5 A	Cod	mab3917 2M	LG7	TGCAGCGCCTCCTCGAC
114.5 A	D4	mab177952M	LG7	TGCAGTGGCTGATTGCT
114.5 A	D4	mab187072M	LG7	TGCAGCTTCGGACTCAT
114.5 A	D4	mab208492M	LG7	TGCAGTGCCTCTCAATC
114.5 A	D4	mab279582M	LG7	TGCAGATGCTGCTCCTG
114.5 A	D4	mab279932M	LG7	TGCAGCTCAAAAAGTTC
114.5 A	D4	mab168782M	LG7	TGCAGAAGATTCTTGCG

114.5 A	D5	mab156362M	LG7	TGCAGGCAGCGGCGAA
114.5 A	Cod	mab5330 2M	LG7	TGCAGTTTACTTGTATAA
114.5 A	Cod	mab2469 2M	LG7	TGCAGCCAAGTTGAGCC
114.5 A	D4	mab236152M	LG7	TGCAGGGTGGGATGCG
114.5 A	Cod	mab2481 2M	LG7	TGCAGATATATAGGCTG
119.78 S	Cod	mab3193 2M	LG7	TGCAGGTTGTCGCCAA
119.78 B	D4	mab178252M	LG7	TGCAGTGCGTCTACGGT
119.78 B	D5	mab7021 2M	LG7	TGCAGCAACATGAGCTC
119.78 B	D5	mab117842M	LG7	TGCAGCACATGGATATG
119.78 B	D5	mab134552M	LG7	TGCAGCATGGGCGCTC
119.78 A	D4	mab249052M	LG7	TGCAGACGTTCCGTCTC
119.78 A	D4	mab198482M	LG7	TGCAGAGCCATCCATTC
119.78 A	D4	mab212822M	LG7	TGCAGGGAGTTCTCCAT
119.78 A	D4	mab218242M	LG7	TGCAGCTAGCTAGCTAG
121.8 S	Cod	mab3640 2M	LG7	TGCAGCCGCGAGCGGCC
121.8 B	D4	mab271562M	LG7	TGCAGGTCTTCTCCACC
121.8 A	D4	mab248162M	LG7	TGCAGGGAGCACGCGC
121.8 A	D4	mab251422M	LG7	TGCAGCTGTGGCCGTG
121.8 A	D5	mab8403 2M	LG7	TGCAGCACCAAGTTTCT
121.8 AB	D5	mab106662M	LG7	TGCAGGTCCCAGCCGC
121.8 A	D4	mab232132M	LG7	TGCAGTAACTAGCTAGA
121.8 A	D4	mab243792M	LG7	TGCAGGTTTGCACCACC
121.8 A	D5	mab7389 2M	LG7	TGCAGGTAAGGTGGACC
121.8 A	D4	mab252162M	LG7	TGCAGGAAACAGGGC
121.8 A	D4	mab217052M	LG7	TGCAGCTGGAACAGATA
121.8 A	D4	mab167952M	LG7	TGCAGAGCGTCGGCGTC
121.8 A	D4	mab199992M	LG7	TGCAGAATAGCACTTTC
121.8 A	D5	mab110532M	LG7	TGCAGGGCCAGCTCA
121.8 AB	D5	mab130182M	LG7	TGCAGTTCACAGTACCC
121.8 A	D4	mab214702M	LG7	TGCAGGCAATCAATCCC
121.8 A	D4	mab214882M	LG7	TGCAGGATGTAGCAAGA
121.8 A	D4	mab168792M	LG7	TGCAGAAGAGAAGGTG
121.8 A	D5	mab109842M	LG7	TGCAGTCGTTCCGCCCC
121.8 A	D4	mab268562M	LG7	TGCAGGTACACCGCCGC
121.8 A	D4	mab220472M	LG7	TGCAGCGAAGAAACTAG
126.13 S	Cod	mab374 2M	LG7	TGCAGAAGTTGTGGCG
126.13 B	Cod	mab2162 2M	LG7	TGCAGGTTACACAGTGC
126.13 B	Cod	mab1454 2M	LG7	TGCAGGCCGAACAGTG
126.13 B	D5	mab125722M	LG7	TGCAGCGCGATGAGGA
126.13 B	D5	mab109832M	LG7	TGCAGTCTAACGAAGGC
126.13 B	D5	mab7616 2M	LG7	TGCAGCTTCTGCTTCAG
126.13 B	D5	mab7133 2M	LG7	TGCAGAAGAAGGACGG
126.13 B	D4	mab232762M	LG7	TGCAGCCATGCGATTTG
126.13 B	D4	mab219742M	LG7	TGCAGCGCGGATGCTT
126.13 B	D4	mab236862M	LG7	TGCAGGCCTCCACGGG
126.13 B	D4	mab168822M	LG7	TGCAGAAGACCGTGGC
126.13 B	D4	mab250802M	LG7	TGCAGTTGAAAAAAAC
126.13 B	D4	mab257522M	LG7	TGCAGGCGCGTCGCC

126.13 B	D4	mab183892M	LG7	TGCAGGCGGATTGTTTT
126.13 B	D4	mab179272M	LG7	TGCAGTCCGAGGAGGTG
126.13 B	D4	mab271772M	LG7	TGCAGGGACCGCTTCA
126.13 B	D4	mab202552M	LG7	TGCAGTGAGCGCGCGC
126.13 A	D4	mab231662M	LG7	TGCAGGCGATGGCGCC
126.13 A	Cod	mab55 2M	LG7	TGCAGGGAATGGACGA
126.13 A	Cod	mab1795 2M	LG7	TGCAGTTTTTGCACCGC
126.13 A	Cod	mab2844 2M	LG7	TGCAGGGTCACCAACCC
126.13 A	D5	mab7330 2M	LG7	TGCAGGAGGCCCGCAG
126.13 A	D5	mab109942M	LG7	TGCAGTCCCCATCTTCT
126.13 A	Cod	mab1906 2M	LG7	TGCAGTTCTGGGCCTTG
126.13 A	Cod	mab524 2M	LG7	TGCAGACGTTGGGGAG
126.13 A	D4	mab249012M	LG7	TGCAGCCGCTGCCGCT
126.13 A	Cod	mab3298 2M	LG7	TGCAGACGTTGGGGAG
126.13 AB	Cod	mab200602M	LG7	TGCAGAACAGGGCAGG
126.13 AB	Cod	mab227712M	LG7	TGCAGAAATCGGAAAA
126.13 A	Cod	mab4725 2M	LG7	TGCAGGTACTCGTCATT
126.13 A	D5	mab9077 2M	LG7	TGCAGGGGCGGTCCAC
126.13 A	D4	mab251052M	LG7	TGCAGAGACAGAAATCC
126.13 A	D4	mab204222M	LG7	TGCAGCTTTACGAACCT
126.13 A	Cod	mab1211 2M	LG7	TGCAGCAGCTCCTTCAT
126.13 A	D4	mab202342M	LG7	TGCAGTGGCAGCAGTAC
126.13 A	D4	mab276972M	LG7	TGCAGCACGCACGCATC
126.13 A	D4	mab167182M	LG7	TGCAGATTGCGTGTGA
126.13 A	D4	mab231742M	LG7	TGCAGTTGTTCCGGCAA
126.13 A	D4	mab167162M	LG7	TGCAGATTCTTTACCGT
126.13 A	D4	mab198022M	LG7	TGCAGAGGCGGATTCCG
126.13 A	Cod	mab1455 2M	LG7	TGCAGACCGCATCATCA
126.13 A	D4	mab195822M	LG7	TGCAGCACCCGCAGCC
137.86 S	Cod	mab2845 2M	LG7	TGCAGGCACGCCCGGT
140.34 S	Cod	mab2520 2M	LG7	TGCAGACATCCTCCAGC
140.34 B	D4	mab198932M	LG7	TGCAGAGAAGACGCTG
140.34 B	D4	mab167972M	LG7	TGCAGAGCGCACCCATC
140.34 B	D4	mab256172M	LG7	TGCAGGTACATCATCGG
140.34 B	D4	mab209342M	LG7	TGCAGTCCGACCCGCTA
140.34 B	D4	mab200102M	LG7	TGCAGAAGGGGGGGGT
140.34 A	D5	mab8840 2M	LG7	TGCAGCGTCTCCTCGA
140.34 A	D4	mab226272M	LG7	TGCAGAGAAGGTACGTA
140.34 A	D4	mab277102M	LG7	TGCAGATCATCGGCCCC
140.34 A	Cod	mab3322 2M	LG7	TGCAGGGGTGGTGCCA
140.34 A	D5	mab107652M	LG7	TGCAGCTCCGACGTCTG
140.34 A	D5	mab9948 2M	LG7	TGCAGAAGAACGACAG
140.34 A	Cod	mab2520 2M	LG7	TGCAGACATCCTCCAGC
141.47 S	Cod	mab2846 2M	LG7	TGCAGGGTGGAGACGA
141.47 A	D4	mab221552M	LG7	TGCAGCCCCACTGGTA
141.47 A	D5	mab6096 2M	LG7	TGCAGCTTGTGACCCAG
141.47 A	Cod	mab3592 2M	LG7	TGCAGCCCGCTCATGCC
141.47 A	D4	mab167152M	LG7	TGCAGATTGAACAGCTT

151.86 S	Cod	mab4166 2M	LG7	TGCAGGGCGACCCGCG
151.86 B	D4	mab189922M	LG7	TGCAGCGGCATCGCCA
151.86 A	D4	mab239232M	LG7	TGCAGCGAAGTGAGTTA
151.86 A	Cod	mab3910 2M	LG7	TGCAGGACGACCCGCG
151.86 A	D4	mab201842M	LG7	TGCAGAGGGCGGAGTT
151.86 A	D5	mab154192M	LG7	TGCAGACGCATGGCCG
153.88 S	Cod	mab1063 2M	LG7	TGCAGTAGCATCTTACA
153.88 B	D4	mab205312M	LG7	TGCAGCCGTCCGAACCC
153.88 A	D5	mab7095 2M	LG7	TGCAGCTCCTGCTTGCC
153.88 A	D4	mab215202M	LG7	TGCAGGAGGAGCTCAA
153.88 A	D5	mab143112M	LG7	TGCAGGTGGCTAAGTTT
153.88 A	D5	mab145372M	LG7	TGCAGGCCAGATAGGT
153.88 A	D4	mab222812M	LG7	TGCAGCAGGGCGCACC
153.88 A	D4	mab205302M	LG7	TGCAGCCGTCTGTATTG
153.88 A	D4	mab215162M	LG7	TGCAGGAGGCCGCCCG
153.88 A	D5	mab147062M	LG7	TGCAGCTGGCCTGCGTG
156.41 S	Cod	mab2871-2M	LG7	TGCAGGACACGCTCGA
156.41 B	D4	mab168002M	LG7	TGCAGAGCCCACCGCT
156.41 A	D4	mab276252M	LG7	TGCAGGCTCACTCCCTT
156.41 A	D4	mab265302M	LG7	TGCAGCAGATGCCACAC
156.41 A	D4	mab168882M	LG7	TGCAGAACTTGGTGGTC
156.41 A	D4	mab222622M	LG7	TGCAGCAGTTCCTTGC
156.41 A	D4	mab265312M	LG7	TGCAGACTTGTGTGTAG
156.41 A	D4	mab215152M	LG7	TGCAGGAGGCCTTCGG
156.41 A	D4	mab239222M	LG7	TGCAGCGACGTGCGGC
156.41 A	Cod	mab2871-2M	LG7	TGCAGGACACGCTCGA
156.41 AB	Cod	mab140842M	LG7	TGCAGTGGCTGTTCCGAT
156.41 A	D4	mab205212M	LG7	TGCAGCGAACGGCGAT
156.41 A	D4	mab222692M	LG7	TGCAGCAGTGAAGCTAA
157.32 S	Cod	mab126 2M	LG7	TGCAGTAGGAGGATCCC
157.32 B	D4	mab168872M	LG7	TGCAGAAGAACTATAA
157.32 A	D4	mab196102M	LG7	TGCAGCAATGCTTTGT
158 S	Cod	mab4956 2M	LG7	TGCAGCATCGTCCTAGC
158 B	D5	mab131332M	LG7	TGCAGGTACGTGGCCGT
158 B	D5	mab6175 2M	LG7	TGCAGCTGTACCCACTC
158 B	D5	mab6944 2M	LG7	TGCAGTAAGTTGCACGC
158 B	D5	mab115592M	LG7	TGCAGGTAGCAAGCAA
158 B	D5	mab151042M	LG7	TGCAGCAGTAGCATCCG
158 A	D5	mab126172M	LG7	TGCAGCCTGGATCGATC
158 AB	D5	mab109362M	LG7	TGCAGTTTTTGAGCCGC
158 A	D5	mab123632M	LG7	TGCAGGCCGCGGCTTGG
158 A	Cod	mab1696 2M	LG7	TGCAGCAGATGGATGG
158 A	D5	mab7481 2M	LG7	TGCAGCGCCGCTAGCC
160.48 S	Cod	mab5580 2M	LG7	TGCAGGAGGAGGAGGC
160.48 B	D4	mab179152M	LG7	TGCAGTCGATCAACGCG
160.48 B	D4	mab222722M	LG7	TGCAGCAGTAGTTGTTG
160.48 B	D4	mab196082M	LG7	TGCAGCAATGTTGCCGC
160.48 A	Cod	mab3703 2M	LG7	TGCAGGCTGACCCCGT

160.48 A	D5	mab6929 2M	LG7	TGCAGGTGTCGCCATTT
160.48 AB	D5	mab7204 2M	LG7	TGCAGCCCCGTGTCCAA
160.48 AB	D5	mab125362M	LG7	TGCAGCGTACACGCGTA
160.48 AB	D5	mab7707 2M	LG7	TGCAGAAAGAAAGCAA
160.48 AB	D5	mab6173 2M	LG7	TGCAGTGCTGCCTAGCT
161.39 S	Cod	mab5029 2M	LG7	TGCAGCTGGTCGAGGA
161.39 A	Cod	mab96 2M	LG7	TGCAGTTGGCGGCGAG
161.39 A	D5	mab8386 2M	LG7	TGCAGGAGCGCGAGGT
161.39 A	Cod	mab2153 2M	LG7	TGCAGCCTTGCCGCCAA
161.39 A	D4	mab239202M	LG7	TGCAGCGAGAAGCTGC
161.39 A	D5	mab149072M	LG7	TGCAGCGCCCCAGAAC
161.39 A	Cod	mab3479 2M	LG7	TGCAGGACCTCGACGTC
163.45 S	Cod	mab4391 2M	LG7	TGCAGGCACCGCGCCA
163.45 B	D4	mab174662M	LG7	TGCAGCATGGCGTCGTT
163.45 B	D4	mab215212M	LG7	TGCAGGAGGAGAGCAT
163.45 A	D5	mab6933 2M	LG7	TGCAGACTGCTCCATCC
163.45 A	D4	mab215192M	LG7	TGCAGGAGGAGGGGGA
167.15 S	Cod	mab1892 2M	LG7	TGCAGTGCCTTGGCTTC
167.15 B	D5	mab6955 2M	LG7	TGCAGGAGGCCACGC
167.15 B	D4	mab202042M	LG7	TGCAGTTTCTCCCTGTT
167.15 B	D5	mab6253 2M	LG7	TGCAGGGTCATCGGGCG
167.15 A	D5	mab117702M	LG7	TGCAGCAGAGAAATAT
167.15 A	D5	mab106632M	LG7	TGCAGGTCGTGGGGATC
168.98 S	Cod	mab5158 2M	LG7	TGCAGGCACACACAGG
168.98 A	D4	mab222662M	LG7	TGCAGCAGTGCAATCTC
172.44 S	Cod	mab60 2M	LG7	TGCAGCGTGGTGCACA

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LG6

cM		Marker	Kr.	Kapcsoltsági csoport (LG)	
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	0.89 S	Cod	mab5119	2U	LG6
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	0.89 AB	D5	mab11628	2U	LG6
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	4.53 A	D4	mab27561	2U	LG6
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	5.65 A	D5	mab14199	2U	LG6
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31.49 A	D5	mab14736	2U	LG6

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92.03 A	D4	mab16837	2U	LG6
92.03 A	D4	mab17292	2U	LG6
92.03 A	D4	mab28038	2U	LG6
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103.8 A	D5	mab9589	2U	LG6
103.8 A	Cod	mab998	2U	LG6
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103.8 A	D5	mab7130	2U	LG6
103.8 A	D5	mab6727	2U	LG6

111.98 S	Cod	mab3560	2U	LG6
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113.32 A	D4	mab26199	2U	LG6
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118.72 A	D4	mab22149	2U	LG6
118.72 A	Cod	mab5093	2U	LG6
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118.72 A	D4	mab25516	2U	LG6
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121.67 AB	D5	mab15730	2U	LG6
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121.67 A	D5	mab14402	2U	LG6
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121.67 A	D5	mab14816	2U	LG6
121.67 A	D5	mab10367	2U	LG6
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126.23 A	D4	mab25841	2U	LG6
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129.84 S	Cod	mab4110	2U	LG6
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129.84 A	D5	mab8046	2U	LG6
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129.84 A	D5	mab16012	2U	LG6
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129.84 A	D4	mab18468	2U	LG6
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131.41 A	D5	mab8639	2U	LG6
131.41 A	D4	mab19354	2U	LG6
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144.79 A	D4	mab16776	2U	LG6
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172.05 A	D4	mab19498	2U	LG6
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202.59 A	Cod	mab2444	2U	LG6
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218.94 A	D5	mab11155	2U	LG6
218.94 A	D4	mab18569	2U	LG6
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226.82 S	Cod	mab2540	2U	LG6

Marker szekvencia

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LG4

cM		Marker	Kr.	Kapcsoltsági csoport (LG)	
	0 S	Cod	mab1941	3M	LG4
	0 A	D4	mab21908	3M	LG4
	0 A	D4	mab19767	3M	LG4
	0 A	D4	mab19030	3M	LG4
	0 A	Cod	mab4265	3M	LG4
	1.34 B	D5	mab6257	3M	LG4
	1.34 S	Cod	mab1535	3M	LG4
	1.34 A	Cod	mab128	3M	LG4
	1.34 A	D5	mab10549	3M	LG4
	2.92 B	D5	mab16396	3M	LG4
	2.92 B	D5	mab16045	3M	LG4
	2.92 B	D5	mab6303	3M	LG4
	2.92 S	Cod	mab2909	3M	LG4
	2.92 A	D4	mab23758	3M	LG4
	2.92 A	D4	mab16943	3M	LG4
	4.28 S	Cod	mab1231	3M	LG4
	5.17 B	D4	mab18049	3M	LG4
	5.17 S	Cod	mab784	3M	LG4
	7.22 B	D4	mab19285	3M	LG4
	7.22 S	Cod	mab3493	3M	LG4
	7.22 A	Cod	mab4460	3M	LG4
	7.22 A	D4	mab24487	3M	LG4
	7.22 A	D5	mab11266	3M	LG4
	7.22 A	D5	mab16124	3M	LG4
	7.22 AB	D5	mab9732	3M	LG4
	7.22 A	D5	mab9266	3M	LG4
	7.22 A	D4	mab25203	3M	LG4
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	17.04 A	D4	mab23364	3M	LG4
	17.04 A	D4	mab19080	3M	LG4
	17.04 A	D5	mab7931	3M	LG4
	17.04 A	Cod	mab3873	3M	LG4
	17.04 A	D5	mab11261	3M	LG4
	17.04 A	D4	mab20383	3M	LG4
	17.04 A	D4	mab20358	3M	LG4
	17.04 A	D4	mab24650	3M	LG4
	17.04 A	Cod	mab5469	3M	LG4
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	19.32 B	D5	mab9476	3M	LG4
	19.32 B	D5	mab7333	3M	LG4
	19.32 S	Cod	mab1334	3M	LG4
	19.77 B	D4	mab26354	3M	LG4
	19.77 B	D5	mab10488	3M	LG4
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19.77 B	D5	mab7121	3M	LG4
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19.77 S	Cod	mab2926	3M	LG4
19.77 A	D5	mab12861	3M	LG4
21.37 S	Cod	mab5274	3M	LG4
21.37 A	D4	mab21267	3M	LG4
21.37 A	D4	mab21678	3M	LG4
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25.8 S	Cod	mab711	3M	LG4
26.47 B	D5	mab8679	3M	LG4
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26.69 A	D4	mab22900	3M	LG4
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26.69 A	D5	mab12695	3M	LG4
26.69 A	D4	mab18528	3M	LG4
26.69 AB	D5	mab6950	3M	LG4
26.69 A	D5	mab8787	3M	LG4
26.69 A	D5	mab9638	3M	LG4
29.18 B	D5	mab12862	3M	LG4
29.18 S	Cod	mab3650	3M	LG4
29.18 A	D5	mab8367	3M	LG4
29.18 A	D4	mab18636	3M	LG4
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32.35 A	D4	mab17843	3M	LG4
32.35 A	D4	mab19272	3M	LG4
32.35 A	D5	mab8073	3M	LG4
32.35 A	D5	mab8152	3M	LG4
32.35 A	D4	mab20094	3M	LG4
32.35 A	D4	mab18957	3M	LG4
32.35 A	D4	mab25023	3M	LG4
32.35 A	Cod	mab130	3M	LG4
32.35 A	D4	mab18752	3M	LG4
32.35 A	D4	mab19932	3M	LG4
32.35 A	D4	mab20938	3M	LG4
32.35 A	D4	mab20999	3M	LG4
32.35 A	D5	mab6309	3M	LG4
32.35 A	D5	mab15310	3M	LG4
32.35 A	D4	mab24619	3M	LG4
32.35 A	D4	mab24384	3M	LG4
32.35 A	D4	mab24537	3M	LG4
32.35 A	D4	mab23117	3M	LG4
35.52 S	Cod	mab4117	3M	LG4
35.52 A	Cod	mab5693	3M	LG4

35.52 AB	Cod	mab24374	3M	LG4
35.52 AB	Cod	mab4061	3M	LG4
35.52 A	Cod	mab4762	3M	LG4
35.52 A	D4	mab23486	3M	LG4
35.52 A	D4	mab23550	3M	LG4
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35.52 A	D4	mab24496	3M	LG4
35.52 A	D4	mab20189	3M	LG4
35.52 A	D4	mab22926	3M	LG4
35.52 A	D4	mab24678	3M	LG4
35.52 A	D4	mab20359	3M	LG4
38.24 B	D5	mab6963	3M	LG4
38.24 B	D5	mab15608	3M	LG4
38.24 B	D5	mab7862	3M	LG4
38.24 S	Cod	mab3386	3M	LG4
38.24 A	D4	mab23026	3M	LG4
38.24 AB	D5	mab6265	3M	LG4
38.24 AB	D5	mab6308	3M	LG4
38.24 AB	D5	mab6310	3M	LG4
38.24 A	D5	mab15678	3M	LG4
38.24 A	D5	mab6312	3M	LG4
38.24 A	D5	mab6315	3M	LG4
38.24 AB	D5	mab7829	3M	LG4
38.24 A	D5	mab6379	3M	LG4
38.24 A	D5	mab6800	3M	LG4
38.24 A	D5	mab11357	3M	LG4
39.81 S	Cod	mab171	3M	LG4
41.15 B	D4	mab17952	3M	LG4
41.15 B	D4	mab18558	3M	LG4
41.15 B	D4	mab17034	3M	LG4
41.15 B	D4	mab27850	3M	LG4
41.15 B	D4	mab22684	3M	LG4
41.15 S	Cod	mab2038	3M	LG4
41.15 A	D4	mab16957	3M	LG4
41.15 A	D4	mab27349	3M	LG4
41.15 A	D4	mab16956	3M	LG4
41.15 A	D4	mab18513	3M	LG4
41.15 A	D4	mab21058	3M	LG4
41.15 A	Cod	mab3391	3M	LG4
41.15 A	D4	mab20468	3M	LG4
41.15 A	Cod	mab3969	3M	LG4
43.18 B	D4	mab17947	3M	LG4
43.18 S	Cod	mab145	3M	LG4
43.18 A	D5	mab8460	3M	LG4
43.18 A	D5	mab12836	3M	LG4
43.18 A	D4	mab27470	3M	LG4
43.18 A	D5	mab6317	3M	LG4
43.18 A	D5	mab11196	3M	LG4

43.18 A	D4	mab27119	3M	LG4
43.18 A	D4	mab16963	3M	LG4
43.18 A	D4	mab18536	3M	LG4
43.18 A	Cod	mab3585	3M	LG4
43.18 A	D4	mab21280	3M	LG4
43.18 A	D4	mab21291	3M	LG4
43.18 AB	D5	mab7586	3M	LG4
43.18 AB	D5	mab7185	3M	LG4
43.18 AB	D5	mab7144	3M	LG4
43.18 AB	D5	mab15071	3M	LG4
43.18 AB	D5	mab15001	3M	LG4
43.18 AB	D5	mab11227	3M	LG4
43.18 AB	D5	mab12775	3M	LG4
43.18 AB	D5	mab6318	3M	LG4
43.18 AB	D5	mab12797	3M	LG4
43.18 AB	D5	mab15206	3M	LG4
43.18 AB	D5	mab10502	3M	LG4
43.18 AB	D5	mab15614	3M	LG4
43.18 AB	D5	mab7131	3M	LG4
43.18 AB	D5	mab11376	3M	LG4
43.18 AB	D5	mab6320	3M	LG4
43.18 AB	D5	mab16300	3M	LG4
43.18 A	D5	mab15028	3M	LG4
43.18 A	D4	mab19837	3M	LG4
43.18 A	Cod	mab5232	3M	LG4
43.18 A	Cod	mab3483	3M	LG4
43.18 A	D4	mab22846	3M	LG4
43.18 A	D4	mab23825	3M	LG4
43.18 A	D5	mab11300	3M	LG4
43.18 A	Cod	mab1374	3M	LG4
43.18 A	D4	mab23632	3M	LG4
45.66 B	D4	mab17035	3M	LG4
45.66 B	D4	mab21874	3M	LG4
45.66 B	D4	mab17036	3M	LG4
45.66 B	D4	mab24848	3M	LG4
45.66 B	D4	mab24514	3M	LG4
45.66 B	D4	mab28109	3M	LG4
45.66 B	D4	mab23144	3M	LG4
45.66 B	D4	mab25490	3M	LG4
45.66 B	D4	mab17926	3M	LG4
45.66 B	D4	mab18103	3M	LG4
45.66 S	Cod	mab3489	3M	LG4
45.66 A	D5	mab12752	3M	LG4
45.66 A	D5	mab9601	3M	LG4
45.66 A	D4	mab25610	3M	LG4
45.66 A	D4	mab21805	3M	LG4
45.66 A	D5	mab7261	3M	LG4
47 B	D4	mab27678	3M	LG4

47 S	Cod	mab3773	3M	LG4
47 A	D5	mab12669	3M	LG4
47 A	D5	mab11191	3M	LG4
47 A	D5	mab10475	3M	LG4
47 A	D5	mab7226	3M	LG4
47 A	Cod	mab1023	3M	LG4
47 AB	D5	mab7419	3M	LG4
47 A	D5	mab15102	3M	LG4
48.57 B	D5	mab6898	3M	LG4
48.57 S	Cod	mab2504	3M	LG4
48.57 A	Cod	mab5295	3M	LG4
48.57 A	Cod	mab4798	3M	LG4
48.57 A	Cod	mab497	3M	LG4
48.57 A	Cod	mab413	3M	LG4
49.91 S	Cod	mab1115	3M	LG4
49.91 A	D4	mab21670	3M	LG4
49.91 A	D4	mab21911	3M	LG4
49.91 A	D4	mab19757	3M	LG4
49.91 A	D4	mab21377	3M	LG4
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49.91 A	D4	mab18180	3M	LG4
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49.91 A	D4	mab19574	3M	LG4
49.91 A	D4	mab22124	3M	LG4
49.91 A	D4	mab22139	3M	LG4
49.91 A	D4	mab24219	3M	LG4
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50.13 S	Cod	mab605	3M	LG4
50.13 A	D4	mab19362	3M	LG4
50.13 AB	Cod	mab8586	3M	LG4
50.13 A	Cod	mab1929	3M	LG4
50.13 A	Cod	mab2443	3M	LG4
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50.13 A	D5	mab7595	3M	LG4
50.13 A	Cod	mab173	3M	LG4
50.13 A	Cod	mab1689	3M	LG4
50.13 A	D4	mab23750	3M	LG4
50.13 A	D5	mab15536	3M	LG4
50.13 A	Cod	mab5216	3M	LG4
50.13 A	D4	mab22890	3M	LG4
50.13 AB	D5	mab8265	3M	LG4
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50.13 A	D5	mab6901	3M	LG4
50.13 A	D5	mab6956	3M	LG4

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50.13 A	D4	mab26916	3M	LG4
50.13 A	D4	mab23458	3M	LG4
50.13 A	D5	mab6382	3M	LG4
50.13 A	Cod	mab5170	3M	LG4
50.13 AB	D5	mab10469	3M	LG4
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50.13 AB	D5	mab8807	3M	LG4
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50.13 A	D5	mab12896	3M	LG4
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50.13 AB	D5	mab11273	3M	LG4
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50.13 AB	D5	mab7895	3M	LG4
50.13 AB	D5	mab9698	3M	LG4
50.13 AB	D5	mab16367	3M	LG4
50.13 AB	D5	mab14921	3M	LG4
50.13 A	D5	mab7043	3M	LG4
50.13 A	D5	mab7449	3M	LG4
50.13 A	Cod	mab819	3M	LG4
50.13 A	Cod	mab5439	3M	LG4
50.13 A	Cod	mab2913	3M	LG4
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50.13 AB	D5	mab12878	3M	LG4

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50.13 A	Cod	mab4879	3M	LG4
50.13 A	D5	mab11291	3M	LG4
50.13 A	D4	mab19512	3M	LG4
50.13 A	Cod	mab4475	3M	LG4
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50.13 A	Cod	mab4234	3M	LG4
50.13 A	D4	mab21435	3M	LG4
50.13 A	D4	mab18465	3M	LG4
50.13 A	D4	mab16902	3M	LG4
50.13 A	D5	mab11264	3M	LG4
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50.13 A	D4	mab27293	3M	LG4
50.13 A	Cod	mab4891	3M	LG4
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50.13 AB	Cod	mab23651	3M	LG4
50.13 AB	Cod	mab19820	3M	LG4
50.13 AB	Cod	mab7201	3M	LG4
50.13 A	Cod	mab4503	3M	LG4
50.13 A	D4	mab27665	3M	LG4
50.13 A	Cod	mab1335	3M	LG4
52.61 B	D4	mab24878	3M	LG4
52.61 B	D4	mab17042	3M	LG4
52.61 B	D4	mab23544	3M	LG4
52.61 B	D4	mab22057	3M	LG4
52.61 B	D4	mab27865	3M	LG4
52.61 B	D4	mab27451	3M	LG4
52.61 B	D4	mab21698	3M	LG4
52.61 B	Cod	mab148	3M	LG4
52.61 B	D4	mab27805	3M	LG4
52.61 B	D4	mab18194	3M	LG4
52.61 B	D4	mab18846	3M	LG4
52.61 B	D4	mab27910	3M	LG4
52.61 B	D4	mab18066	3M	LG4
52.61 B	D4	mab19818	3M	LG4
52.61 B	D4	mab23769	3M	LG4
52.61 B	D4	mab23193	3M	LG4
52.61 B	D4	mab20406	3M	LG4
52.61 S	Cod	mab2953	3M	LG4
52.61 A	D4	mab19089	3M	LG4
52.61 A	D4	mab27206	3M	LG4
52.61 A	D4	mab23016	3M	LG4
52.61 A	D4	mab21371	3M	LG4

52.61 A	D4	mab17896	3M	LG4
52.61 A	D4	mab16971	3M	LG4
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53.05 S	Cod	mab4351	3M	LG4
53.05 A	D4	mab18658	3M	LG4
53.05 A	D4	mab18874	3M	LG4
53.05 AB	Cod	mab7559	3M	LG4
53.05 A	Cod	mab3430	3M	LG4
53.05 A	D4	mab18617	3M	LG4
53.05 A	Cod	mab2801	3M	LG4
53.05 A	D4	mab18546	3M	LG4
53.05 A	Cod	mab2914	3M	LG4
53.05 A	D4	mab18464	3M	LG4
53.05 AB	Cod	mab3469	3M	LG4
53.05 AB	Cod	mab4158	3M	LG4
53.05 AB	Cod	mab1138	3M	LG4
53.05 AB	Cod	mab4771	3M	LG4
53.05 AB	Cod	mab5100	3M	LG4
53.05 AB	Cod	mab5610	3M	LG4
53.05 AB	Cod	mab2057	3M	LG4
53.05 AB	Cod	mab3689	3M	LG4
53.05 AB	Cod	mab5102	3M	LG4
53.05 AB	Cod	mab1777	3M	LG4
53.05 A	Cod	mab2796	3M	LG4
53.05 A	D4	mab19011	3M	LG4
53.05 A	D4	mab18785	3M	LG4
53.05 A	D4	mab19056	3M	LG4
53.05 A	D4	mab19074	3M	LG4
53.05 A	D4	mab18797	3M	LG4
53.05 A	D4	mab18703	3M	LG4
53.05 A	D4	mab19162	3M	LG4
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53.05 AB	Cod	mab3260	3M	LG4
53.05 AB	Cod	mab1846	3M	LG4
53.05 AB	Cod	mab3731	3M	LG4
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53.05 AB	Cod	mab3835	3M	LG4
53.05 AB	Cod	mab4825	3M	LG4

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53.05 AB	Cod	mab4708	3M	LG4
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53.05 AB	Cod	mab712	3M	LG4
53.05 A	Cod	mab2777	3M	LG4
53.05 AB	Cod	mab2759	3M	LG4
53.05 AB	Cod	mab4017	3M	LG4
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53.05 A	D4	mab18751	3M	LG4
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53.05 A	D4	mab19327	3M	LG4
53.05 AB	Cod	mab22055	3M	LG4
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53.05 AB	Cod	mab19874	3M	LG4
53.05 A	Cod	mab1509	3M	LG4
53.05 A	Cod	mab1526	3M	LG4
53.05 A	D4	mab21782	3M	LG4
53.05 AB	Cod	mab8768	3M	LG4
53.05 A	Cod	mab5490	3M	LG4
53.05 A	D4	mab23701	3M	LG4
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53.05 A	Cod	mab2583	3M	LG4
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53.05 A	D4	mab18166	3M	LG4
53.05 A	D4	mab16543	3M	LG4
53.05 A	D4	mab16626	3M	LG4
53.05 A	D4	mab16545	3M	LG4
53.05 A	D4	mab18243	3M	LG4
53.05 A	D4	mab18296	3M	LG4
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53.05 A	D4	mab17015	3M	LG4
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53.05 A	D4	mab26948	3M	LG4
53.05 A	D4	mab26893	3M	LG4
53.05 A	D4	mab26703	3M	LG4
53.05 A	D4	mab26687	3M	LG4
53.05 A	D4	mab22157	3M	LG4
53.05 A	D4	mab22644	3M	LG4
53.05 A	D4	mab22823	3M	LG4
53.05 A	D4	mab26476	3M	LG4
53.05 A	D4	mab25984	3M	LG4
53.05 A	D4	mab25953	3M	LG4
53.05 A	D4	mab25586	3M	LG4

53.05 A	D4	mab25262	3M	LG4
53.05 A	D4	mab25121	3M	LG4
53.05 A	D4	mab25071	3M	LG4
53.05 A	D4	mab25024	3M	LG4
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53.05 A	D4	mab21365	3M	LG4

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53.05 A	Cod	mab3733	3M	LG4
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53.05 A	D4	mab23511	3M	LG4
53.05 A	D4	mab23499	3M	LG4
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53.05 A	Cod	mab5704	3M	LG4
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53.05 A	D4	mab23054	3M	LG4
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53.05 A	D4	mab22834	3M	LG4
53.05 A	D4	mab22821	3M	LG4
53.05 A	Cod	mab2769	3M	LG4
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57.41 A	D4	mab18861	3M	LG4
57.41 A	D4	mab16512	3M	LG4
57.41 A	D4	mab24478	3M	LG4
57.41 A	D4	mab23168	3M	LG4
57.41 A	D4	mab23151	3M	LG4
57.41 A	D4	mab21276	3M	LG4
57.41 A	D4	mab21354	3M	LG4
57.41 A	D4	mab24812	3M	LG4
57.41 A	D4	mab18192	3M	LG4
57.41 AB	D5	mab8462	3M	LG4
57.41 A	D5	mab10924	3M	LG4
57.41 A	D5	mab12163	3M	LG4
57.41 A	D5	mab12334	3M	LG4
57.41 A	D5	mab8821	3M	LG4
57.41 A	D5	mab9149	3M	LG4
57.41 A	D5	mab9400	3M	LG4
57.41 A	D5	mab10365	3M	LG4
57.41 A	D5	mab9841	3M	LG4
57.41 A	D5	mab7088	3M	LG4
57.41 A	D5	mab7565	3M	LG4

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57.41 AB	D5	mab16272	3M	LG4
57.41 A	D5	mab13735	3M	LG4
57.41 A	D4	mab25558	3M	LG4
57.41 A	D4	mab26457	3M	LG4
57.41 A	Cod	mab1482	3M	LG4
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57.41 A	D4	mab20319	3M	LG4
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58.75 A	D4	mab25212	3M	LG4
58.75 A	D4	mab19118	3M	LG4
58.75 A	D4	mab19971	3M	LG4
58.75 A	D4	mab23708	3M	LG4
58.75 A	D4	mab19326	3M	LG4
58.75 A	D4	mab18620	3M	LG4
58.75 A	D4	mab21128	3M	LG4
58.75 A	D4	mab16491	3M	LG4
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58.75 A	D4	mab27729	3M	LG4
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58.75 A	D4	mab24359	3M	LG4
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58.75 A	D4	mab19189	3M	LG4
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58.75 A	D4	mab18823	3M	LG4
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58.75 A	D4	mab23557	3M	LG4
58.75 A	D4	mab16538	3M	LG4
58.75 A	D4	mab24574	3M	LG4
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58.75 A	D4	mab19359	3M	LG4
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58.97 S	Cod	mab1659	3M	LG4
58.97 A	D4	mab21643	3M	LG4
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58.97 A	D4	mab21290	3M	LG4
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58.97 A	D4	mab25616	3M	LG4
58.97 A	Cod	mab2154	3M	LG4
58.97 A	D4	mab18661	3M	LG4
58.97 A	D4	mab26684	3M	LG4
58.97 AB	Cod	mab1001	3M	LG4
58.97 A	Cod	mab3307	3M	LG4
58.97 A	D4	mab16975	3M	LG4
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58.97 A	D4	mab25181	3M	LG4
58.97 A	Cod	mab2592	3M	LG4
58.97 A	D5	mab10702	3M	LG4
58.97 A	D4	mab21947	3M	LG4
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58.97 A	Cod	mab3776	3M	LG4
58.97 A	Cod	mab2917	3M	LG4
58.97 A	Cod	mab5451	3M	LG4
58.97 A	D4	mab20949	3M	LG4
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60.77 AB	D5	mab10833	3M	LG4
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64.38 A	D4	mab19227	3M	LG4
64.38 A	D4	mab27080	3M	LG4
64.38 A	D4	mab16986	3M	LG4
64.38 A	D4	mab17049	3M	LG4
64.38 A	D4	mab18264	3M	LG4
64.38 AB	D5	mab13849	3M	LG4
64.38 A	D5	mab11543	3M	LG4
64.38 A	D4	mab24238	3M	LG4
64.82 S	Cod	mab5589	3M	LG4
65.71 B	D5	mab10312	3M	LG4
65.71 B	D5	mab7804	3M	LG4
65.71 B	Cod	mab4592	3M	LG4
65.71 S	Cod	mab3283	3M	LG4
65.71 A	D4	mab17239	3M	LG4
65.71 A	Cod	mab4111	3M	LG4
65.71 A	D4	mab24876	3M	LG4
65.71 A	D4	mab19488	3M	LG4
65.71 A	D4	mab16983	3M	LG4
65.71 A	D4	mab21269	3M	LG4
65.71 A	Cod	mab157	3M	LG4
65.71 A	D4	mab22215	3M	LG4
66.61 B	D5	mab11077	3M	LG4
66.61 B	D5	mab8456	3M	LG4
66.61 B	D5	mab6339	3M	LG4
66.61 S	Cod	mab4448	3M	LG4
66.61 A	D5	mab11537	3M	LG4
66.61 A	D4	mab28073	3M	LG4
66.61 A	D4	mab20199	3M	LG4
66.61 A	D4	mab23692	3M	LG4
66.61 A	D4	mab17597	3M	LG4
66.61 A	D4	mab24698	3M	LG4

66.61 A	Cod	mab4898	3M	LG4
68.66 B	D4	mab20111	3M	LG4
68.66 B	Cod	mab3710	3M	LG4
68.66 S	Cod	mab5143	3M	LG4
68.66 A	D4	mab26599	3M	LG4
68.66 A	D4	mab23657	3M	LG4
68.66 A	D4	mab23254	3M	LG4
68.66 A	D4	mab23528	3M	LG4
68.66 A	Cod	mab4987	3M	LG4
68.66 AB	Cod	mab23028	3M	LG4
68.66 AB	Cod	mab21401	3M	LG4
68.66 AB	Cod	mab21685	3M	LG4
68.66 AB	Cod	mab23446	3M	LG4
68.66 AB	Cod	mab18840	3M	LG4
68.66 AB	Cod	mab27375	3M	LG4
68.66 AB	Cod	mab22687	3M	LG4
68.66 AB	Cod	mab24280	3M	LG4
68.66 AB	Cod	mab18036	3M	LG4
68.66 A	Cod	mab5452	3M	LG4
68.66 A	D4	mab25497	3M	LG4
68.66 A	Cod	mab4580	3M	LG4
68.66 AB	D5	mab9333	3M	LG4
68.66 A	D5	mab12365	3M	LG4
68.66 A	Cod	mab4052	3M	LG4
68.66 A	Cod	mab3538	3M	LG4
68.66 A	Cod	mab3417	3M	LG4
68.66 A	Cod	mab4043	3M	LG4
68.66 A	D4	mab24670	3M	LG4
70.23 S	Cod	mab4558	3M	LG4
70.23 A	Cod	mab5449	3M	LG4
70.23 A	Cod	mab5316	3M	LG4
70.23 A	Cod	mab4944	3M	LG4
70.23 A	Cod	mab3605	3M	LG4
70.23 A	Cod	mab735	3M	LG4
71.35 B	D5	mab11549	3M	LG4
71.35 B	D5	mab13145	3M	LG4
71.35 B	D5	mab10088	3M	LG4
71.35 B	D5	mab13847	3M	LG4
71.35 B	D5	mab7184	3M	LG4
71.35 B	D4	mab25767	3M	LG4
71.35 B	D4	mab26805	3M	LG4
71.35 B	D4	mab19342	3M	LG4
71.35 B	D4	mab16980	3M	LG4
71.35 B	D4	mab19524	3M	LG4
71.35 B	D4	mab16620	3M	LG4
71.35 B	D4	mab23709	3M	LG4
71.35 B	D4	mab21061	3M	LG4
71.35 B	D4	mab25241	3M	LG4

71.35 B	D4	mab24921	3M	LG4
71.35 B	D4	mab21686	3M	LG4
71.35 B	D4	mab18641	3M	LG4
71.35 B	Cod	mab965	3M	LG4
71.35 B	D5	mab8362	3M	LG4
71.35 B	D5	mab11098	3M	LG4
71.35 B	D5	mab12064	3M	LG4
71.35 B	D5	mab8051	3M	LG4
71.35 B	D5	mab12192	3M	LG4
71.35 S	Cod	mab701	3M	LG4
71.57 B	Cod	mab4087	3M	LG4
71.57 B	Cod	mab3827	3M	LG4
71.57 S	Cod	mab4137	3M	LG4
71.57 A	D5	mab9106	3M	LG4
71.57 A	D4	mab17694	3M	LG4
71.57 A	Cod	mab3220	3M	LG4
71.57 A	D4	mab22166	3M	LG4
71.57 A	D4	mab23153	3M	LG4
71.57 A	D5	mab10025	3M	LG4
71.57 A	D4	mab23744	3M	LG4
71.57 A	Cod	mab4284	3M	LG4
71.57 AB	D5	mab6914	3M	LG4
71.57 AB	D5	mab9892	3M	LG4
71.57 AB	D5	mab8366	3M	LG4
71.57 AB	D5	mab8163	3M	LG4
71.57 A	D5	mab14979	3M	LG4
71.57 AB	D5	mab11030	3M	LG4
71.57 A	D5	mab6394	3M	LG4
71.57 A	D5	mab13826	3M	LG4
74.99 B	D4	mab22661	3M	LG4
74.99 S	Cod	mab4382	3M	LG4
74.99 A	Cod	mab3648	3M	LG4
74.99 A	D4	mab22875	3M	LG4
74.99 A	D4	mab22176	3M	LG4
75.66 B	D4	mab21905	3M	LG4
75.66 B	D4	mab26362	3M	LG4
75.66 B	D4	mab17958	3M	LG4
75.66 B	D4	mab24591	3M	LG4
75.66 B	D4	mab25030	3M	LG4
75.66 S	Cod	mab4255	3M	LG4
75.66 AB	Cod	mab19587	3M	LG4
75.66 AB	Cod	mab16988	3M	LG4
75.66 AB	Cod	mab18801	3M	LG4
75.66 AB	Cod	mab9334	3M	LG4
75.66 AB	Cod	mab6342	3M	LG4
75.66 AB	Cod	mab8720	3M	LG4
75.66 A	Cod	mab2933	3M	LG4
75.66 A	Cod	mab1697	3M	LG4

75.66 A	Cod	mab4046	3M	LG4
75.66 A	Cod	mab140	3M	LG4
75.66 A	D5	mab15767	3M	LG4
75.66 A	D4	mab24747	3M	LG4
75.66 A	Cod	mab2957	3M	LG4
75.66 A	Cod	mab1064	3M	LG4
75.66 AB	D5	mab10888	3M	LG4
75.66 A	D5	mab14100	3M	LG4
75.66 A	Cod	mab5547	3M	LG4
75.66 A	D5	mab6343	3M	LG4
75.66 A	Cod	mab5211	3M	LG4
75.66 A	D5	mab15202	3M	LG4
75.66 A	Cod	mab2046	3M	LG4
75.66 AB	D5	mab14934	3M	LG4
75.66 AB	D5	mab13604	3M	LG4
75.66 A	D5	mab13594	3M	LG4
80.95 B	D4	mab26523	3M	LG4
80.95 S	Cod	mab4145	3M	LG4
80.95 AB	Cod	mab21093	3M	LG4
80.95 AB	Cod	mab1371	3M	LG4
80.95 A	Cod	mab1525	3M	LG4
80.95 AB	D5	mab13523	3M	LG4
80.95 AB	D5	mab7831	3M	LG4
80.95 AB	D5	mab9299	3M	LG4
80.95 AB	D5	mab8151	3M	LG4
80.95 AB	D5	mab9607	3M	LG4
80.95 AB	D5	mab13562	3M	LG4
80.95 AB	D5	mab9558	3M	LG4
80.95 A	D5	mab7558	3M	LG4
80.95 A	Cod	mab2306	3M	LG4
80.95 A	D5	mab8583	3M	LG4
80.95 A	D5	mab8246	3M	LG4
80.95 A	D4	mab24819	3M	LG4
80.95 A	Cod	mab5505	3M	LG4
80.95 A	Cod	mab4654	3M	LG4
80.95 A	D5	mab12336	3M	LG4
81.84 B	D4	mab24088	3M	LG4
81.84 B	D4	mab23291	3M	LG4
81.84 B	D4	mab23420	3M	LG4
81.84 B	D4	mab27203	3M	LG4
81.84 B	D4	mab26966	3M	LG4
81.84 B	D4	mab20387	3M	LG4
81.84 S	Cod	mab4586	3M	LG4
81.84 A	D4	mab24855	3M	LG4
81.84 A	D4	mab23514	3M	LG4
81.84 A	D5	mab7603	3M	LG4
81.84 A	D4	mab27060	3M	LG4
83.41 B	D4	mab24372	3M	LG4

83.41 S	Cod	mab5564	3M	LG4
83.41 A	D5	mab6397	3M	LG4
83.41 A	Cod	mab3542	3M	LG4
83.41 A	Cod	mab180	3M	LG4
83.41 A	Cod	mab2959	3M	LG4
83.41 A	D5	mab12038	3M	LG4
83.41 AB	Cod	mab1212	3M	LG4
83.41 A	Cod	mab3302	3M	LG4
83.41 A	D4	mab27545	3M	LG4
83.41 A	Cod	mab1200	3M	LG4
84.3 B	D5	mab15029	3M	LG4
84.3 B	D5	mab6344	3M	LG4
84.3 B	D5	mab6282	3M	LG4
84.3 B	D5	mab9005	3M	LG4
84.3 S	Cod	mab2935	3M	LG4
84.3 A	Cod	mab5066	3M	LG4
84.3 AB	D5	mab10175	3M	LG4
84.3 AB	D5	mab7396	3M	LG4
84.3 AB	D5	mab12319	3M	LG4
84.3 AB	D5	mab7397	3M	LG4
84.3 AB	D5	mab15013	3M	LG4
84.3 AB	D5	mab14950	3M	LG4
84.3 AB	D5	mab10733	3M	LG4
84.3 AB	D5	mab13586	3M	LG4
84.3 AB	D5	mab8571	3M	LG4
84.3 A	D5	mab15318	3M	LG4
84.3 A	D5	mab10020	3M	LG4
84.3 AB	Cod	mab4602	3M	LG4
84.3 AB	Cod	mab4420	3M	LG4
84.3 A	Cod	mab1286	3M	LG4
84.3 A	Cod	mab158	3M	LG4
85.42 B	D4	mab24809	3M	LG4
85.42 B	Cod	mab4072	3M	LG4
85.42 S	Cod	mab4595	3M	LG4
85.42 AB	D5	mab6976	3M	LG4
85.42 AB	D5	mab13733	3M	LG4
85.42 AB	D5	mab10925	3M	LG4
85.42 AB	D5	mab10729	3M	LG4
85.42 AB	D5	mab7939	3M	LG4
85.42 AB	D5	mab10753	3M	LG4
85.42 AB	D5	mab16034	3M	LG4
85.42 A	D5	mab8004	3M	LG4
85.42 A	D4	mab21688	3M	LG4
85.42 A	Cod	mab4287	3M	LG4
85.42 A	D4	mab18110	3M	LG4
85.42 A	Cod	mab639	3M	LG4
85.42 A	D4	mab27246	3M	LG4
85.42 A	D4	mab25834	3M	LG4

86.99 B	D4	mab22012	3M	LG4
86.99 B	D4	mab26766	3M	LG4
86.99 B	D4	mab18625	3M	LG4
86.99 B	D4	mab17331	3M	LG4
86.99 B	D4	mab19123	3M	LG4
86.99 B	D4	mab19553	3M	LG4
86.99 B	D4	mab16636	3M	LG4
86.99 B	D4	mab24804	3M	LG4
86.99 B	D4	mab20601	3M	LG4
86.99 B	Cod	mab3866	3M	LG4
86.99 S	Cod	mab2937	3M	LG4
88.11 B	D4	mab19138	3M	LG4
88.11 S	Cod	mab4032	3M	LG4
88.11 A	D4	mab18976	3M	LG4
88.11 A	D4	mab28147	3M	LG4
88.11 A	Cod	mab2190	3M	LG4
88.11 A	D4	mab17615	3M	LG4
88.11 A	D4	mab16927	3M	LG4
88.11 A	Cod	mab3568	3M	LG4
88.11 A	D4	mab22706	3M	LG4
88.11 A	D4	mab25245	3M	LG4
88.11 A	D4	mab18862	3M	LG4
88.11 A	D4	mab24396	3M	LG4
88.11 A	D4	mab21315	3M	LG4
88.11 A	D4	mab17554	3M	LG4
88.11 A	D4	mab24648	3M	LG4
88.11 A	D4	mab26826	3M	LG4
92.46 B	D4	mab19917	3M	LG4
92.46 S	Cod	mab1207	3M	LG4
92.46 A	D5	mab10072	3M	LG4
92.46 A	Cod	mab526	3M	LG4
92.46 A	D5	mab7471	3M	LG4
92.46 A	D4	mab26836	3M	LG4
92.46 A	Cod	mab3512	3M	LG4
92.46 A	D5	mab8101	3M	LG4
92.46 A	D4	mab25135	3M	LG4
92.46 A	Cod	mab5613	3M	LG4
92.46 A	D4	mab24378	3M	LG4
92.46 A	D5	mab15978	3M	LG4
92.46 A	D4	mab20198	3M	LG4
92.46 A	Cod	mab4240	3M	LG4
92.46 A	D4	mab21438	3M	LG4
92.46 A	D4	mab24853	3M	LG4
92.46 A	D4	mab23336	3M	LG4
92.46 A	D4	mab18230	3M	LG4
92.46 A	D5	mab6968	3M	LG4
92.46 A	Cod	mab159	3M	LG4
92.46 A	D4	mab16994	3M	LG4

92.46 AB	Cod	mab3448	3M	LG4
92.46 AB	Cod	mab161	3M	LG4
92.46 A	Cod	mab815	3M	LG4
92.46 A	D4	mab17060	3M	LG4
92.46 A	D5	mab10668	3M	LG4
92.46 A	D5	mab12973	3M	LG4
92.46 A	Cod	mab3342	3M	LG4
92.46 A	D4	mab27565	3M	LG4
92.46 A	D4	mab19199	3M	LG4
92.46 A	D4	mab17003	3M	LG4
98.98 B	D5	mab8042	3M	LG4
98.98 B	D5	mab8353	3M	LG4
98.98 B	D5	mab7122	3M	LG4
98.98 B	D5	mab10171	3M	LG4
98.98 S	Cod	mab3387	3M	LG4
99.65 S	Cod	mab5737	3M	LG4
99.65 A	D5	mab10005	3M	LG4
99.65 AB	D5	mab11671	3M	LG4
99.65 A	D5	mab6401	3M	LG4
99.65 A	D4	mab24745	3M	LG4
105.43 S	Cod	mab1803	3M	LG4
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105.43 A	D4	mab27660	3M	LG4
105.43 A	D4	mab18853	3M	LG4
105.43 A	D4	mab20801	3M	LG4
105.43 A	D4	mab20790	3M	LG4
105.43 A	D4	mab27395	3M	LG4
106.33 S	Cod	mab3982	3M	LG4
106.33 A	D4	mab20326	3M	LG4
106.33 A	D5	mab8370	3M	LG4
106.33 A	D5	mab7272	3M	LG4
106.33 A	Cod	mab598	3M	LG4
108.38 B	D4	mab20813	3M	LG4
108.38 B	D4	mab22042	3M	LG4
108.38 B	D4	mab18326	3M	LG4
108.38 B	D4	mab23073	3M	LG4
108.38 B	D4	mab20782	3M	LG4
108.38 B	D4	mab21148	3M	LG4
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108.38 B	D4	mab22625	3M	LG4
108.38 B	D4	mab20963	3M	LG4
108.38 S	Cod	mab3389	3M	LG4
108.38 A	D4	mab18929	3M	LG4
108.82 S	Cod	mab3264	3M	LG4
108.82 A	D4	mab18657	3M	LG4
108.82 A	D4	mab21842	3M	LG4
108.82 A	Cod	mab5404	3M	LG4
108.82 A	D4	mab23713	3M	LG4

108.82 A	D4	mab21987	3M	LG4
108.82 A	D4	mab18897	3M	LG4
110.18 B	D5	mab7961	3M	LG4
110.18 B	Cod	mab3464	3M	LG4
110.18 S	Cod	mab5196	3M	LG4
110.63 B	D5	mab7458	3M	LG4
110.63 B	D4	mab18219	3M	LG4
110.63 S	Cod	mab3780	3M	LG4
110.63 A	D4	mab16824	3M	LG4
110.63 A	D4	mab19623	3M	LG4
110.63 A	D4	mab27755	3M	LG4
110.63 A	D4	mab17000	3M	LG4
110.63 A	D4	mab22512	3M	LG4
110.63 A	D5	mab6284	3M	LG4
110.63 AB	Cod	mab26662	3M	LG4
110.63 AB	Cod	mab17064	3M	LG4
110.63 AB	Cod	mab8328	3M	LG4
110.63 AB	Cod	mab19172	3M	LG4
110.63 AB	Cod	mab16177	3M	LG4
110.63 A	Cod	mab4186	3M	LG4
110.63 A	D4	mab19114	3M	LG4
110.63 A	D4	mab24165	3M	LG4
110.63 A	D4	mab23987	3M	LG4
110.63 A	D5	mab13724	3M	LG4
110.63 A	D5	mab5925	3M	LG4
110.63 A	D5	mab10240	3M	LG4
110.63 A	D4	mab18462	3M	LG4
110.63 A	Cod	mab5332	3M	LG4
110.63 A	D4	mab20563	3M	LG4
110.63 A	D4	mab20612	3M	LG4
117.13 B	D5	mab16368	3M	LG4
117.13 B	D5	mab7217	3M	LG4
117.13 B	D5	mab8223	3M	LG4
117.13 B	D5	mab15764	3M	LG4
117.13 S	Cod	mab370	3M	LG4
117.13 AB	D5	mab9368	3M	LG4
117.13 AB	D5	mab8640	3M	LG4
117.13 AB	D5	mab13777	3M	LG4
117.13 A	D5	mab8000	3M	LG4
117.13 AB	Cod	mab15389	3M	LG4
117.13 A	Cod	mab3465	3M	LG4
117.13 A	D4	mab27161	3M	LG4
117.13 A	D4	mab22402	3M	LG4
117.13 A	D5	mab12060	3M	LG4
117.13 A	D4	mab20656	3M	LG4
117.13 A	D4	mab18795	3M	LG4
117.13 A	Cod	mab1602	3M	LG4
117.13 A	D5	mab12473	3M	LG4

121.24 B	D4	mab19511	3M	LG4
121.24 S	Cod	mab1691	3M	LG4
121.24 A	Cod	mab1669	3M	LG4
121.24 AB	D5	mab6900	3M	LG4
121.24 AB	D5	mab8928	3M	LG4
121.24 AB	D5	mab6287	3M	LG4
121.24 AB	D5	mab10875	3M	LG4
121.24 AB	D5	mab7477	3M	LG4
121.24 AB	D5	mab9058	3M	LG4
121.24 AB	D5	mab6351	3M	LG4
121.24 AB	D5	mab15699	3M	LG4
121.24 AB	D5	mab8340	3M	LG4
121.24 AB	D5	mab8582	3M	LG4
121.24 A	D5	mab7453	3M	LG4
121.24 A	D4	mab20401	3M	LG4
121.24 A	D4	mab24012	3M	LG4
121.24 A	Cod	mab4388	3M	LG4
121.24 A	D4	mab17693	3M	LG4
121.24 A	D4	mab22489	3M	LG4
121.24 A	D4	mab20552	3M	LG4
121.24 A	D4	mab18237	3M	LG4
121.24 A	D4	mab18743	3M	LG4
121.24 A	D4	mab25453	3M	LG4
121.24 A	D4	mab19651	3M	LG4
122.36 B	Cod	mab3956	3M	LG4
122.36 B	Cod	mab3377	3M	LG4
122.36 B	Cod	mab1050	3M	LG4
122.36 B	Cod	mab377	3M	LG4
122.36 S	Cod	mab2345	3M	LG4
124.39 S	Cod	mab409	3M	LG4
125.73 S	Cod	mab409	3M	LG4
125.73 A	D4	mab18830	3M	LG4
125.73 A	D4	mab17004	3M	LG4
125.73 A	D4	mab24130	3M	LG4
125.73 A	D4	mab20706	3M	LG4
125.73 A	D4	mab22591	3M	LG4
127.07 S	Cod	mab1074	3M	LG4
127.07 A	D4	mab19432	3M	LG4
127.07 A	D5	mab15317	3M	LG4
127.07 A	D4	mab27318	3M	LG4
131.23 B	D4	mab20156	3M	LG4
131.23 S	Cod	mab3420	3M	LG4
131.23 A	D5	mab7377	3M	LG4
132.13 S	Cod	mab646	3M	LG4
132.13 A	D4	mab24114	3M	LG4
132.13 A	D4	mab24033	3M	LG4
132.13 A	Cod	mab4942	3M	LG4
132.13 A	D4	mab27889	3M	LG4

132.13 A	D4	mab17022	3M	LG4
132.13 A	D4	mab24024	3M	LG4
132.13 A	D4	mab22365	3M	LG4
132.13 A	D4	mab22547	3M	LG4
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132.13 A	D4	mab17005	3M	LG4
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132.13 A	Cod	mab3916	3M	LG4
132.13 A	D4	mab24078	3M	LG4
132.13 A	D4	mab24068	3M	LG4
132.13 A	D4	mab17979	3M	LG4
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132.13 A	D4	mab21536	3M	LG4
132.13 A	D4	mab18739	3M	LG4
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136.7 B	D5	mab8415	3M	LG4
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144.17 B	D5	mab9351	3M	LG4
144.17 S	Cod	mab1248	3M	LG4
144.17 A	D5	mab11843	3M	LG4
144.17 A	D5	mab9877	3M	LG4
144.17 A	D4	mab20594	3M	LG4
144.17 AB	D5	mab11802	3M	LG4
144.17 AB	D5	mab8131	3M	LG4
144.17 AB	D5	mab8020	3M	LG4
144.17 A	D5	mab12466	3M	LG4
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146.65 A	D5	mab7290	3M	LG4
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148.22 A	D5	mab14998	3M	LG4
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148.22 A	D4	mab17066	3M	LG4
148.22 A	D5	mab6405	3M	LG4
148.22 A	D4	mab26631	3M	LG4
148.22 A	D5	mab13227	3M	LG4

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152.09 A	Cod	mab5058	3M	LG4
152.09 A	Cod	mab931	3M	LG4
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163.31 S	Cod	mab4552	3M	LG4

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208.69 S	Cod	mab4539	3M	LG4
209.13 B	D4	mab17019	3M	LG4
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Marker szekvencia

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TGCAGGGTGCACCAAACGCGGAGGACGGCGGGATGACGACGAGGTGGAGCACGGGAAGAGCAGCAAG
TGCAGCAGAAGCAAGGCGGCTCAAGGCGTCCCG
TGCAGTCAACGCAGACAGACATAGCGGCCATCCATGGCAGCGAGCGGCTCCG
TGCAGCCGCAAGCAGCTTCCAGTTTAGCAGGCATAGGTCCAGTAAGCCG

LG5

cM		Marker	Kr.	Kapcsoltsági csoport (LG)	Marker szekvencia
	0 S	Cod	mab1329 3U	LG5	TGCAGAAAAGATTCTGA
	0 B	D5	mab160633U	LG5	TGCAGGGCCACGCCCA
	0 B	D5	mab9172 3U	LG5	TGCAGTGCAAAAGCCA
	0 B	D5	mab9516 3U	LG5	TGCAGGTGGACCGAGC
	0 B	D5	mab110973U	LG5	TGCAGGCCATTAGTCC
	0.44 S	Cod	mab635 3U	LG5	TGCAGCTGGGACTACA
	0.44 B	Cod	mab1740 3U	LG5	TGCAGTGCATCAGGTC
	1.11 S	Cod	mab688 3U	LG5	TGCAGCAGCAGCTGGC
	1.11 B	Cod	mab150 3U	LG5	TGCAGCTGTCAAGCGC
	1.11 B	D4	mab278903U	LG5	TGCAGGAGATGGACAC
	1.11 B	D4	mab274913U	LG5	TGCAGCGCTCTCCAG
	1.11 B	D5	mab119343U	LG5	TGCAGGGGATTACCCTC
	1.11 B	D5	mab124633U	LG5	TGCAGCTGCCGAGCT
	1.11 B	D5	mab118873U	LG5	TGCAGTTGTGAACGGA
	1.11 B	D5	mab7799 3U	LG5	TGCAGCCTTGCACTTCT
	1.11 B	D5	mab8872 3U	LG5	TGCAGCCAGGCTCCCC
	1.11 A	Cod	mab1293 3U	LG5	TGCAGCCAGCTCGCAA
	1.11 A	Cod	mab4132 3U	LG5	TGCAGGGCACAGTGGT
	1.55 S	Cod	mab620 3U	LG5	TGCAGGTTTCGAGAGG
	1.55 B	D4	mab279713U	LG5	TGCAGATTCTCTTCGTC
	1.77 S	Cod	mab692 3U	LG5	TGCAGAACAACATCACC
	1.77 B	D4	mab255793U	LG5	TGCAGCCGAGACGAGC
	1.77 B	D4	mab186343U	LG5	TGCAGGACCTCACCTG
	1.77 B	D4	mab237303U	LG5	TGCAGGAGGCGCAGGA
	1.77 A	Cod	mab2379 3U	LG5	TGCAGGCATGGGCCAA
	1.77 A	Cod	mab4769 3U	LG5	TGCAGAATCAATTCCCA
	1.77 AB	Cod	mab262933U	LG5	TGCAGCTTTGGCAGGA
	1.77 A	Cod	mab2426 3U	LG5	TGCAGTAGCAGTAGTAC
	1.77 A	Cod	mab1169 3U	LG5	TGCAGGCGCAGACGCA
	1.77 A	Cod	mab149 3U	LG5	TGCAGCAAGTGATTAAC
	3.57 S	Cod	mab488 3U	LG5	TGCAGGGGCCACTTCG
	3.57 A	Cod	mab2527 3U	LG5	TGCAGCCTATCGTGACC
	3.57 A	D4	mab260073U	LG5	TGCAGCGTTGGAACGG
	3.57 A	Cod	mab5612 3U	LG5	TGCAGCGGGGACTAGC
	3.57 A	D4	mab252113U	LG5	TGCAGAACTGCTGCTG
	3.57 A	Cod	mab2010 3U	LG5	TGCAGTTCTAGCTTAC
	3.57 A	D4	mab259043U	LG5	TGCAGTTGGCAGATCGA
	3.57 A	D4	mab243243U	LG5	TGCAGTGCTCGGGAGA
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3.57 A	D4	mab266573U	LG5	TGCAGCACGAAAAGCA
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3.57 A	Cod	mab2102 3U	LG5	TGCAGCGCCACCGCCT
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3.57 AB	D5	mab121873U	LG5	TGCAGTAAAAATTTGTA
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3.57 AB	D5	mab109273U	LG5	TGCAGATCCTCCAGCGC
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3.57 AB	D5	mab146823U	LG5	TGCAGCTTACGCCACC
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3.57 AB	D5	mab134773U	LG5	TGCAGCAGGCGCTGGC
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6.75 B	Cod	mab5310 3U	LG5	TGCAGCGAGGTGGGCC
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6.75 A	D4	mab187093U	LG5	TGCAGCTTCCCATTCTT
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6.75 A	D4	mab257343U	LG5	TGCAGAAAGTCCATTGC
6.75 A	D4	mab254513U	LG5	TGCAGACATAGACGATC
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8.76 S	Cod	mab4098 3U	LG5	TGCAGGCCATGTCATTA
8.76 B	Cod	mab1142 3U	LG5	TGCAGCAGCTGGATGA
9.2 S	Cod	mab768 3U	LG5	TGCAGACGAAGGGCTC
9.2 B	Cod	mab155 3U	LG5	TGCAGTACGCGCCGCG
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9.2 B	D5	mab161683U	LG5	TGCAGGAGGCAGATGG
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9.2 B	D5	mab6334 3U	LG5	TGCAGTCGCACCTAAAC
9.2 B	D5	mab151453U	LG5	TGCAGCAGCAGCAGCA
9.2 B	D5	mab6389 3U	LG5	TGCAGTCAGCGGCAGC
9.2 A	Cod	mab3508 3U	LG5	TGCAGCAGCCGCTTCTC
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9.64 A	D4	mab196983U	LG5	TGCAGATGGGGCAGGG
9.64 A	D4	mab224143U	LG5	TGCAGCAACACGTTCCA
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9.64 A	D4	mab206653U	LG5	TGCAGACTCAGCCTAAT
9.64 A	D4	mab205813U	LG5	TGCAGCAGCAGGACAT
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10.08 B	Cod	mab134 3U	LG5	TGCAGGACGTTGCCGA
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10.08 A	D5	mab6278 3U	LG5	TGCAGCCTGAGCAACA

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10.08 AB	D5	mab151343U	LG5	TGCAGCAGCCGCAACA
10.08 AB	D5	mab142403U	LG5	TGCAGTAGCGCATGGC
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10.08 AB	D5	mab157373U	LG5	TGCAGATTGATCTCAGG
10.08 AB	D5	mab140353U	LG5	TGCAGTTGAACGGAGC
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10.08 A	D5	mab151353U	LG5	TGCAGCAGCCACTAGC
10.08 A	Cod	mab445 3U	LG5	TGCAGCGTCATCCTGGC
10.08 A	Cod	mab547 3U	LG5	TGCAGCGCCACCAGCG
10.08 A	D5	mab131363U	LG5	TGCAGGGTTCGCGTCA
10.08 A	Cod	mab543 3U	LG5	TGCAGCAGGAGCGGGG
10.75 S	Cod	mab4780 3U	LG5	TGCAGTGGTTAGGACAT
10.75 A	Cod	mab935 3U	LG5	TGCAGGGACGAGCACA
10.75 AB	Cod	mab102533U	LG5	TGCAGTCATAGAACGGC
10.75 A	Cod	mab1736 3U	LG5	TGCAGGTGTTTTTCGAA
10.75 AB	Cod	mab194093U	LG5	TGCAGCATCTTGACAGT
16.05 S	Cod	mab5633 3U	LG5	TGCAGCAAGTAATGCC
16.05 A	D5	mab143533U	LG5	TGCAGGTATTTGCGTCT
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17.62 S	Cod	mab4054 3U	LG5	TGCAGAACACCAACGC
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17.62 A	D4	mab225583U	LG5	TGCAGAGCCAGCAAC
17.62 A	D4	mab206973U	LG5	TGCAGAAGCACAGCGA
17.62 A	Cod	mab2619 3U	LG5	TGCAGGAGCGCGCGGC
17.62 AB	Cod	mab225403U	LG5	TGCAGAGTAAAAACGA
17.62 AB	Cod	mab187193U	LG5	TGCAGCTTAACCTCTG
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17.62 A	D4	mab184533U	LG5	TGCAGGCCCATCATACC
17.62 A	D5	mab153643U	LG5	TGCAGAGCAGGGAAAT
17.62 A	Cod	mab5180 3U	LG5	TGCAGGAGCTCACGAT
17.62 AB	Cod	mab134173U	LG5	TGCAGCCTACGGGATG
17.62 A	D4	mab253873U	LG5	TGCAGCAGCTCAGCGA
17.62 A	D4	mab224263U	LG5	TGCAGATTGTCGTAGCA
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19.63 S	Cod	mab4176 3U	LG5	TGCAGCCTGGATCGAT
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19.63 B	D4	mab263463U	LG5	TGCAGAGTCGTCTAA
19.63 B	D4	mab169873U	LG5	TGCAGGGAGATACTGT
19.63 B	D4	mab196413U	LG5	TGCAGCAACGACGTGC
19.63 A	D5	mab143303U	LG5	TGCAGGTCTCACATACA

19.63 AB	D5	mab147493U	LG5	TGCAGCTCTGGGACAA
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19.63 AB	Cod	mab143573U	LG5	TGCAGGTAGGAGAATG
19.63 AB	Cod	mab143513U	LG5	TGCAGGTCAAATGACAC
19.63 A	D5	mab145703U	LG5	TGCAGGCAAGGCGGGC
19.63 A	D5	mab159323U	LG5	TGCAGTATTGTACTGTA
19.63 A	D5	mab6097 3U	LG5	TGCAGGTTCCGAATGCA
20.98 S	Cod	mab522 3U	LG5	TGCAGAGGAGGATTTG
20.98 A	D5	mab7522 3U	LG5	TGCAGGCGACCCCTGG
20.98 A	Cod	mab417 3U	LG5	TGCAGGTACATAACGTG
22.79 S	Cod	mab176 3U	LG5	TGCAGCACTGGGATTCC
22.79 B	Cod	mab1555 3U	LG5	TGCAGCGCGGCTTGCC
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22.79 B	D5	mab154563U	LG5	TGCAGAAGGTGGCCGT
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22.79 A	Cod	mab2320 3U	LG5	TGCAGCAGCATGTCTC
22.79 A	Cod	mab1306 3U	LG5	TGCAGCGCGGCCAATC
22.79 A	D4	mab196693U	LG5	TGCAGATTTTATTTATT
22.79 A	D4	mab201493U	LG5	TGCAGGTTCTGTGGTC
22.79 A	Cod	mab5344 3U	LG5	TGCAGGTGGCGGCGGA
22.79 A	D5	mab8133 3U	LG5	TGCAGGTAGCGTGTTC
22.79 AB	D5	mab151233U	LG5	TGCAGCAGCTGCTGAG
22.79 A	D4	mab264523U	LG5	TGCAGCCGTGGCAGGT
22.79 A	D4	mab170503U	LG5	TGCAGTTTGTCAITTAG
22.79 A	D4	mab265263U	LG5	TGCAGGAGAAGATCAA
23.91 S	Cod	mab3723 3U	LG5	TGCAGAACTGAACATG
23.91 B	Cod	mab156 3U	LG5	TGCAGCTCAAGGAGTT
23.91 B	D5	mab148183U	LG5	TGCAGCGTGTGCGGAC
23.91 B	D5	mab6340 3U	LG5	TGCAGGGTGGAGACGA
23.91 A	D4	mab169853U	LG5	TGCAGGGGGGAGGGG
23.91 A	D4	mab265103U	LG5	TGCAGGAGGAGCGAGT
23.91 A	D4	mab225683U	LG5	TGCAGAGGAGCCGAAC
23.91 A	D5	mab8010 3U	LG5	TGCAGGCGCTGGTTAG
25.71 S	Cod	mab1351 3U	LG5	TGCAGAATCTGTAGCC
25.71 B	D5	mab9137 3U	LG5	TGCAGACGCGACGATG
25.71 A	Cod	mab1351-3U	LG5	TGCAGAATCTGTAGCC
25.71 A	D4	mab259813U	LG5	TGCAGACAAAGGAGAG
25.71 A	D4	mab257323U	LG5	TGCAGACGCGTCTTCA
25.71 A	D5	mab9236 3U	LG5	TGCAGCAACCAGGGCG
28.19 S	Cod	mab1945 3U	LG5	TGCAGCACCCGCGAGCT
28.19 B	Cod	mab4585 3U	LG5	TGCAGACCACGGTGCC
28.19 A	Cod	mab451 3U	LG5	TGCAGCTCCAAGCAC
28.19 A	Cod	mab1534 3U	LG5	TGCAGCTTGGGGCGCT
29.76 S	Cod	mab1609 3U	LG5	TGCAGAACAATGTCCG
29.76 B	D5	mab7488 3U	LG5	TGCAGTGCAGACTATCA
30.2 S	Cod	mab3602 3U	LG5	TGCAGAGAAGGCCATC
30.2 A	D4	mab196893U	LG5	TGCAGATGTTGCGTCG

30.2 A	D4	mab253343U	LG5	TGCAGCGGCAGCGCC
30.2 A	D4	mab191153U	LG5	TGCAGCGACCGACGCC
30.2 A	D4	mab255213U	LG5	TGCAGCACTTGGCCATC
30.2 A	D4	mab186013U	LG5	TGCAGGAGAGGAAAGC
30.2 A	D4	mab184523U	LG5	TGCAGGCCCATCCGAG
30.2 A	D4	mab205863U	LG5	TGCAGCAGACACAAGC
30.2 A	D5	mab9859 3U	LG5	TGCAGCCCCTGTGGTC
30.2 AB	D5	mab149603U	LG5	TGCAGCCTCGAACCCA
30.2 A	Cod	mab1330 3U	LG5	TGCAGGTACGCGGCCA
30.2 A	Cod	mab4269 3U	LG5	TGCAGGTCGTCCCTGTC
30.2 AB	Cod	mab272123U	LG5	TGCAGCCGCTGCTGAC
30.2 AB	Cod	mab196643U	LG5	TGCAGCAAATGTCGTC
30.2 AB	Cod	mab259053U	LG5	TGCAGATCGTCCTAAC
30.2 AB	Cod	mab214273U	LG5	TGCAGGCCACGACACA
30.2 A	D4	mab164923U	LG5	TGCAGCCGCTGCTCCTC
30.2 A	D5	mab145923U	LG5	TGCAGGAGTCGCGGGG
32 S	Cod	mab3946 3U	LG5	TGCAGCCGACCAACGA
32 A	D4	mab193013U	LG5	TGCAGCCCCTCTCTTAT
32 A	Cod	mab138 3U	LG5	TGCAGGTACACGGTGG
32 A	D4	mab169143U	LG5	TGCAGCGAAGGAGGAG
32 A	Cod	mab539 3U	LG5	TGCAGCAGCGTTGTCA
32 AB	Cod	mab8345 3U	LG5	TGCAGCGGCGAGCAGC
35.91 S	Cod	mab1793 3U	LG5	TGCAGTCCCCGAAGC
35.91 A	D5	mab114923U	LG5	TGCAGCCAGTGCGGCT
35.91 A	Cod	mab4543 3U	LG5	TGCAGTGGACTGACTAT
35.91 A	D5	mab7266 3U	LG5	TGCAGCAGGGGATCAT
35.91 A	D5	mab159823U	LG5	TGCAGGTGGTGGCCGA
35.91 A	Cod	mab485 3U	LG5	TGCAGCGAGATCGGGC
35.91 AB	Cod	mab258453U	LG5	TGCAGGCCACCCGAGC
35.91 A	D5	mab160583U	LG5	TGCAGGGCGAATTGGT
35.91 A	Cod	mab2178 3U	LG5	TGCAGGCCTCCAGCGT
35.91 A	D5	mab157503U	LG5	TGCAGAGGGCCGCCGA
35.91 A	D4	mab221383U	LG5	TGCAGCCCTGTGGGCA
35.91 A	D4	mab206303U	LG5	TGCAGATACCACTGCCA
35.91 A	Cod	mab1616 3U	LG5	TGCAGACAATGAATGT
42.22 S	Cod	mab3270 3U	LG5	TGCAGCATCTGCATGGC
42.22 A	D4	mab255413U	LG5	TGCAGTTGGCCGTCGC
42.22 A	Cod	mab1312 3U	LG5	TGCAGCCTCTACTTAAA
42.22 AB	Cod	mab250583U	LG5	TGCAGCAACCCATGGA
42.22 A	D5	mab148063U	LG5	TGCAGTACGTTTGGGC
42.89 S	Cod	mab2106 3U	LG5	TGCAGCATTGGCAGCA
42.89 B	D4	mab214413U	LG5	TGCAGGCAGTGCCCAA
42.89 A	D4	mab181393U	LG5	TGCAGGTCGCCCCGCC
42.89 A	Cod	mab1992 3U	LG5	TGCAGGACGAGACGGA
42.89 A	Cod	mab4279 3U	LG5	TGCAGGACGAAACGGA
42.89 AB	Cod	mab270323U	LG5	TGCAGTGGCGAGATTCC
51.33 S	Cod	mab5401 3U	LG5	TGCAGTATTTGTTGTACA
51.33 B	D5	mab119793U	LG5	TGCAGCGTGTCTCCTGT

51.33 A	D4	mab250113U	LG5	TGCAGCCCCAGCCCAC
54.51 S	Cod	mab1957 3U	LG5	TGCAGAGCCTGCGTGG
54.51 B	D4	mab251833U	LG5	TGCAGCACGCTCAAGG
54.51 A	D5	mab140753U	LG5	TGCAGTGTAGCGCGTTC
54.51 A	D5	mab8210 3U	LG5	TGCAGATCGAATCCAGC
54.51 A	Cod	mab2249 3U	LG5	TGCAGTAATGATTATCTT
54.51 A	Cod	mab5506 3U	LG5	TGCAGCGTTGGTTACGC
54.51 A	D5	mab164313U	LG5	TGCAGCGCATCCTCAC
54.51 A	D5	mab136003U	LG5	TGCAGAATTCAGTCGAA
54.51 A	D5	mab144323U	LG5	TGCAGGGATGGCGGGG
54.51 A	D5	mab147953U	LG5	TGCAGCTCACCATGCAT
57.68 S	Cod	mab1097 3U	LG5	TGCAGCCTCAAGCGC
57.68 B	Cod	mab1086 3U	LG5	TGCAGGGGTCGGTGAG
57.68 B	D5	mab162243U	LG5	TGCAGGAAGGAGTTGT
57.68 B	D5	mab130503U	LG5	TGCAGTGCAATTAGACA
57.68 B	D5	mab122173U	LG5	TGCAGGTCATAGATGGC
57.68 B	D5	mab7613 3U	LG5	TGCAGCCGCTCCTCTC
57.68 A	D4	mab191273U	LG5	TGCAGCGAACCAACA
57.68 A	D4	mab238803U	LG5	TGCAGCGGGCCTTCTG
57.68 A	Cod	mab177 3U	LG5	TGCAGAACGAACGACA
57.68 A	D4	mab236363U	LG5	TGCAGGGCGTGGAGGC
57.68 A	D5	mab101503U	LG5	TGCAGAGGGCGCGACC
57.68 A	D4	mab280373U	LG5	TGCAGGGTGCCACAT
59.7 S	Cod	mab1289 3U	LG5	TGCAGGCGGGCAGGAC
59.7 B	D4	mab190793U	LG5	TGCAGCGCACGTGTATC
59.7 A	D5	mab114813U	LG5	TGCAGGCGGAGGATAT
62.41 S	Cod	mab771 3U	LG5	TGCAGCCACCCCACG
62.41 A	D5	mab8623 3U	LG5	TGCAGCGCCGTGGCCA
63.3 S	Cod	mab903 3U	LG5	TGCAGCATGGCTGGTTC
63.3 A	Cod	mab2586 3U	LG5	TGCAGCGTCGCCAGCG
63.3 A	D4	mab277993U	LG5	TGCAGGCGGCGCTGGA
63.97 S	Cod	mab1481 3U	LG5	TGCAGAGAGCGAGTAA
63.97 A	D5	mab115623U	LG5	TGCAGGGTGCACAAAA
63.97 A	D4	mab195613U	LG5	TGCAGCACGGCGGGCG
63.97 A	Cod	mab2523 3U	LG5	TGCAGCACACAGCTGC
63.97 A	Cod	mab1797 3U	LG5	TGCAGCACACCCGAGA
63.97 A	Cod	mab3126 3U	LG5	TGCAGCACCCCGCAGA
66.73 S	Cod	mab3823 3U	LG5	TGCAGCAGTGTCATCGC
66.73 B	D4	mab213523U	LG5	TGCAGGCGGCGTCTGCT
66.73 B	D4	mab169173U	LG5	TGCAGATTCATGCCCCT
66.73 A	D5	mab123493U	LG5	TGCAGGCCACCAGCCA
66.73 AB	D5	mab122663U	LG5	TGCAGGGGTTGTATTTA
66.73 AB	D5	mab8719 3U	LG5	TGCAGGGCACGGGGCC
68.09 S	Cod	mab1625 3U	LG5	TGCAGACGACGCCGTG
68.09 B	D4	mab254343U	LG5	TGCAGCAGCTGGTGCT
68.09 A	Cod	mab1514 3U	LG5	TGCAGGTGTTTGATTGC
68.09 AB	Cod	mab253273U	LG5	TGCAGTGGATCTGAAC
68.09 A	Cod	mab1697 3U	LG5	TGCAGTCCACGACGCTA

69.21 S	Cod	mab1645 3U	LG5	TGCAGAACTAATGCTAC
71.23 S	Cod	mab424 3U	LG5	TGCAGAGTGGGGGCGC
71.23 B	D5	mab100083U	LG5	TGCAGGGCGTCCGCGC
71.23 B	D5	mab110203U	LG5	TGCAGGTGAGCAGCAA
71.23 B	D5	mab6395 3U	LG5	TGCAGACACGAGAGGA
71.23 B	D5	mab7683 3U	LG5	TGCAGCGCTGCTGTTTC
71.23 A	D5	mab114013U	LG5	TGCAGAGGAGGAGCAA
71.23 A	D5	mab123393U	LG5	TGCAGGCCTAGGCCGA
71.23 A	D5	mab6720 3U	LG5	TGCAGCACTGCCGCAT/
71.23 A	Cod	mab2047 3U	LG5	TGCAGGCGGCATCTAG/
71.23 A	D5	mab9867 3U	LG5	TGCAGCCATTGCTCGGC
71.23 A	D5	mab142723U	LG5	TGCAGTAACTTGATGCT
71.23 A	Cod	mab2598 3U	LG5	TGCAGCCATCGGCCTG/
71.23 A	D5	mab162873U	LG5	TGCAGCTGCGGGGCCA
75.1 S	Cod	mab3392 3U	LG5	TGCAGCTGGCAAGGCC
76.9 S	Cod	mab2919 3U	LG5	TGCAGACTTGCGGGAT/
76.9 B	D4	mab170573U	LG5	TGCAGTTTACACGCGCC
76.9 B	D5	mab140763U	LG5	TGCAGTGTAGACTAATC
76.9 B	Cod	mab575 3U	LG5	TGCAGTTGGCCGCCAG
76.9 B	Cod	mab1066 3U	LG5	TGCAGATCAGTCTACG
76.9 B	D5	mab129513U	LG5	TGCAGGAGCGCTTCTG
76.9 B	D4	mab279093U	LG5	TGCAGCGGAGGATCTTC
76.9 B	D5	mab119513U	LG5	TGCAGGCCCCCTTTTC
76.9 A	D4	mab261003U	LG5	TGCAGGAGCAGCAACA
76.9 A	Cod	mab2536 3U	LG5	TGCAGCACCTTTGAAT
76.9 A	D4	mab259763U	LG5	TGCAGCGGGATGGCTG
76.9 A	Cod	mab5570 3U	LG5	TGCAGCCGTGCCAGGT
76.9 A	D4	mab221283U	LG5	TGCAGCCGCAAACGGC
76.9 A	Cod	mab3824 3U	LG5	TGCAGCCTGACTCCTG
78.47 S	Cod	mab2934 3U	LG5	TGCAGGCGTAGAGGCA
78.47 B	D5	mab140833U	LG5	TGCAGTGGTGATCATCA
78.47 A	Cod	mab2936 3U	LG5	TGCAGCCTGCTCCTCAG
78.47 AB	Cod	mab259433U	LG5	TGCAGCGGGCGATGTG
78.47 A	Cod	mab879 3U	LG5	TGCAGCCACAGCCGCG
78.47 A	Cod	mab2543 3U	LG5	TGCAGAGATCGATCGAC
80.5 S	Cod	mab3967 3U	LG5	TGCAGCTGCTGCGCCA
80.5 B	D4	mab218643U	LG5	TGCAGCGTGACACCGA
80.5 B	D4	mab253933U	LG5	TGCAGACCTTTGTTTAT
80.5 B	D4	mab276043U	LG5	TGCAGCTGCTTCTGAC
80.5 A	Cod	mab1354 3U	LG5	TGCAGCACCGGCGGCT
80.5 A	D4	mab199053U	LG5	TGCAGACTGACCAAGG
80.5 A	Cod	mab1901 3U	LG5	TGCAGGTAGTTACCCAC
80.5 AB	Cod	mab178503U	LG5	TGCAGTGACAGTGGTT
85.55 S	Cod	mab4470 3U	LG5	TGCAGGATGGAGGATG
85.55 A	D4	mab188153U	LG5	TGCAGCTCGGAGTGGA
86.68 S	Cod	mab4463 3U	LG5	TGCAGTGTCCGAGTCC
86.68 B	D5	mab163303U	LG5	TGCAGCTCACGGCAGA
86.68 B	D5	mab150613U	LG5	TGCAGCCACCGCAGAC

86.68 B	D4	mab255063U	LG5	TGCAGCACCCAGCAGCG
86.68 B	D4	mab194543U	LG5	TGCAGCAGGGGGAGGG
86.68 B	D4	mab275793U	LG5	TGCAGGAAACTCCGTG
86.68 B	D4	mab250143U	LG5	TGCAGTCAGCCGCGGC
86.68 A	Cod	mab2066 3U	LG5	TGCAGCCTTCTTCTCT
88.27 S	Cod	mab2938 3U	LG5	TGCAGCCAGGCTCTGC
88.27 B	D5	mab138533U	LG5	TGCAGCGCGAGAGCCC
88.27 B	Cod	mab4587 3U	LG5	TGCAGTGCCTTGACCT
88.27 B	D4	mab210283U	LG5	TGCAGTACCATTCTCCA
88.27 A	D4	mab212653U	LG5	TGCAGGGCATGGGCCG
88.27 A	D5	mab137613U	LG5	TGCAGGGGCTCACGAT
91.9 S	Cod	mab4004 3U	LG5	TGCAGCTAGCGGGGCG
91.9 B	D4	mab269973U	LG5	TGCAGTGGCACCCGATG
91.9 B	D5	mab9028 3U	LG5	TGCAGGGCGAGGTGAG
93.47 S	Cod	mab525 3U	LG5	TGCAGGTGGTCTGACG
93.47 B	D4	mab255103U	LG5	TGCAGGCAAGCGCGCC
93.47 A	D5	mab7555 3U	LG5	TGCAGGTCAAACGCGT
93.47 A	Cod	mab4091 3U	LG5	TGCAGATGGCCCGCCG
93.47 A	D5	mab155673U	LG5	TGCAGTTGAAGCACTT
93.47 A	D4	mab184913U	LG5	TGCAGGCAGAGGCACT
93.47 A	D5	mab115323U	LG5	TGCAGTCATCAATGTCA
93.47 AB	D5	mab8963 3U	LG5	TGCAGCCACCCGTCCC
98.76 S	Cod	mab1539 3U	LG5	TGCAGTTTCAGCATTAA
98.76 B	D5	mab144503U	LG5	TGCAGGGACATAGGCC
98.76 A	Cod	mab4803 3U	LG5	TGCAGGGAGAGGCGAC
98.76 AB	Cod	mab140723U	LG5	TGCAGTGTGATCCCTC
98.76 A	D5	mab9482 3U	LG5	TGCAGAGCTTATGCTTT
98.76 A	D5	mab145623U	LG5	TGCAGGCACTCCCCTC
98.76 AB	D5	mab122063U	LG5	TGCAGGTGGCTCGGTCT
98.76 A	D5	mab159663U	LG5	TGCAGTAACAGAGTTTG
98.76 A	Cod	mab3143 3U	LG5	TGCAGGACCTCCAGGC
104.3 S	Cod	mab907 3U	LG5	TGCAGGGGGCAGCGGC
107.49 S	Cod	mab832 3U	LG5	TGCAGGCGCTGGTGCC
107.49 A	D4	mab255803U	LG5	TGCAGGACATACCATGC
107.49 A	D4	mab169963U	LG5	TGCAGGACAGTATAGAA
107.49 A	D5	mab7353 3U	LG5	TGCAGCAGGTGCCAGA
107.49 AB	D5	mab118813U	LG5	TGCAGCTTGTCCCAGCC
107.49 A	D4	mab275333U	LG5	TGCAGTACTGGCTTAGC
107.49 A	D4	mab169953U	LG5	TGCAGGATGGCCGCCT
107.49 A	D4	mab177783U	LG5	TGCAGTGGTTCTTGGGC
107.49 A	D4	mab188083U	LG5	TGCAGCTCGTCCGCCC
107.49 A	D5	mab152683U	LG5	TGCAGATGAGACCTTGT
107.49 AB	D5	mab164533U	LG5	TGCAGCGAGAGCGGGA
107.49 AB	D5	mab7466 3U	LG5	TGCAGACCACCACCATC
107.49 AB	D5	mab6346 3U	LG5	TGCAGGGAATGGACGA
107.49 A	Cod	mab3476 3U	LG5	TGCAGGACCTCACCTC
107.49 A	Cod	mab4316 3U	LG5	TGCAGCCGAGGGACGC
107.49 AB	Cod	mab153223U	LG5	TGCAGAGGCGTGGAAAT

107.49 A	Cod	mab1909 3U	LG5	TGCAGCCCAACTTGCG
107.49 A	D4	mab169983U	LG5	TGCAGCTTTACATCGGA
107.49 A	Cod	mab162 3U	LG5	TGCAGTTCTTCAACGTC
107.49 AB	Cod	mab160 3U	LG5	TGCAGCAGATTCATCCA
107.49 A	D4	mab186803U	LG5	TGCAGGAAACCAATTCA
107.49 A	D4	mab253793U	LG5	TGCAGCCGTACGGGCG
107.49 A	D4	mab178563U	LG5	TGCAGTGATGCACAAGC
108.84 S	Cod	mab3765 3U	LG5	TGCAGCGCCCTCATCCA
108.84 A	D5	mab145663U	LG5	TGCAGGCACCGCCCAT
108.84 AB	D5	mab9384 3U	LG5	TGCAGCGCCACCCGA
108.84 AB	D5	mab8351 3U	LG5	TGCAGCGAGGCAAACC
108.84 A	D4	mab270373U	LG5	TGCAGGTGCCGTGGGC
108.84 A	D5	mab139903U	LG5	TGCAGAAGACATTCTCA
108.84 AB	D5	mab102093U	LG5	TGCAGCGAGCGCAAGA
108.84 AB	D5	mab160903U	LG5	TGCAGGCTCCATGGTG
108.84 AB	D5	mab155403U	LG5	TGCAGCGCGCGTGAC
108.84 AB	D5	mab6941 3U	LG5	TGCAGCTGCCACGGAT
108.84 A	D4	mab230143U	LG5	TGCAGGAGAGGTCGCC
108.84 A	D4	mab279763U	LG5	TGCAGAGCGGCCGCCA
108.84 A	D4	mab183763U	LG5	TGCAGGCGGTGCGCCG
108.84 A	D5	mab133213U	LG5	TGCAGCTCCACCACTG
110.18 S	Cod	mab2447 3U	LG5	TGCAGCGCGCATTAAAG
110.18 B	D4	mab258443U	LG5	TGCAGCTCTGGAGTAGT
110.18 A	D4	mab177603U	LG5	TGCAGTGTTAATTAGTAT
110.18 A	D4	mab275563U	LG5	TGCAGAGGGAGCTCAT
110.18 A	D5	mab157323U	LG5	TGCAGCAAGCCTACGC
118.17 S	Cod	mab2242 3U	LG5	TGCAGTGCCTGGCGCC
119.29 S	Cod	mab3379 3U	LG5	TGCAGCCCTCCGTTG
119.29 B	D4	mab269203U	LG5	TGCAGTGGTGCAAGGA
119.29 B	D5	mab121253U	LG5	TGCAGTGCAACGGTGT
119.29 A	Cod	mab884 3U	LG5	TGCAGCGGCGGCGAAC
119.29 A	D4	mab233743U	LG5	TGCAGTGGCCACCATC
121.54 S	Cod	mab2960 3U	LG5	TGCAGTAAGTTCGAGGA
121.54 B	D5	mab116383U	LG5	TGCAGGAACGAGTCGA
121.54 A	D4	mab245093U	LG5	TGCAGCTCGTTCAGGCC
121.54 A	D4	mab269633U	LG5	TGCAGGTCTCTCTGCT
121.54 A	D5	mab127763U	LG5	TGCAGCAAGTGGACAA
121.54 A	D4	mab265083U	LG5	TGCAGGACACGGTGAA
121.54 A	D4	mab233043U	LG5	TGCAGCTCCAAATAGGT
121.54 A	D4	mab261543U	LG5	TGCAGGCGATGGGGCA
121.54 A	D4	mab276773U	LG5	TGCAGCAGCAGGAAGC
121.54 A	D4	mab238093U	LG5	TGCAGCTGCGTAGTTG
121.54 A	D4	mab248343U	LG5	TGCAGGTCGCATCCCA
121.54 A	D4	mab262693U	LG5	TGCAGCTGTTAGAGGCC
121.54 A	D4	mab237423U	LG5	TGCAGGACGAGCTCAC
121.54 A	D4	mab189543U	LG5	TGCAGCGGCTTCGTG
121.54 A	D4	mab170023U	LG5	TGCAGTAGCTAGGGT
121.54 A	Cod	mab3608 3U	LG5	TGCAGCAGCGACGCCT

121.54 A	D4	mab218373U	LG5	TGCAGCTACGGGAGCA
121.54 A	D4	mab278563U	LG5	TGCAGCGGAGTGGGAC
121.54 A	D5	mab9699 3U	LG5	TGCAGTGAACAAACCG
121.54 A	D4	mab236313U	LG5	TGCAGGGGCTCAATGG
121.54 A	Cod	mab4536 3U	LG5	TGCAGCTCGACAATGG
121.54 AB	Cod	mab9700 3U	LG5	TGCAGTCTGCACTGCA
121.54 A	D4	mab258073U	LG5	TGCAGCCCCTGCCGCG
121.54 A	Cod	mab5462 3U	LG5	TGCAGCTGTCACCGTCA
121.54 A	D4	mab251003U	LG5	TGCAGATTTGGGTTGTG
121.54 A	D5	mab134563U	LG5	TGCAGCATGCGAGTGC
121.54 A	D5	mab7863 3U	LG5	TGCAGGCCACCACACG
121.54 AB	D5	mab9716 3U	LG5	TGCAGGTTGCCGGCAC
121.54 A	D4	mab257183U	LG5	TGCAGCTAGCATCGCTC
121.54 A	D4	mab229373U	LG5	TGCAGCGGGCGGCGCC
121.54 A	D4	mab256933U	LG5	TGCAGAGCGCGTGGCC
136.18 S	Cod	mab4531 3U	LG5	TGCAGCGTCTGCCACC
136.18 B	D5	mab162363U	LG5	TGCAGGAAAAGGAGGA
136.18 B	D5	mab151733U	LG5	TGCAGCACGACGGTGA
136.18 A	D5	mab154433U	LG5	TGCAGACAACCTCAGG
136.18 A	D5	mab112843U	LG5	TGCAGCCGAGGCAAAC
136.18 A	D4	mab268913U	LG5	TGCAGGGCCAGGTCTT
136.18 A	D4	mab197943U	LG5	TGCAGAGGGGACTGCC
136.18 A	D5	mab139403U	LG5	TGCAGCAAACAAAATT
136.18 A	D4	mab227473U	LG5	TGCAGAAGAAGAAGGT
136.18 A	Cod	mab5269 3U	LG5	TGCAGGAAATTGGATC
136.18 A	D4	mab264483U	LG5	TGCAGCGTAAGGATAAC
136.18 A	D4	mab203573U	LG5	TGCAGGCGTTCGCCTT
136.18 A	D4	mab258983U	LG5	TGCAGATTGTTCTCGA
136.18 A	D4	mab214473U	LG5	TGCAGGCAGGCGGGCC
136.18 A	D5	mab156773U	LG5	TGCAGCTAATATGATTG
136.18 A	D4	mab262773U	LG5	TGCAGCTGCCTCGTTCA
140.05 S	Cod	mab3728 3U	LG5	TGCAGCCGCCGCAAGG
140.05 B	Cod	mab3169 3U	LG5	TGCAGGTGATACGAAK
140.05 A	D5	mab159353U	LG5	TGCAGTAGTGGTGCTCC
140.05 AB	D5	mab7116 3U	LG5	TGCAGGTCCGACGTCC
140.05 A	D4	mab199633U	LG5	TGCAGACATATGCATT
140.05 A	D4	mab255483U	LG5	TGCAGCTGCGACGGCC
140.05 A	D4	mab236473U	LG5	TGCAGGGCCATAATTT
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145.59 B	D5	mab148643U	LG5	TGCAGCGGCGGCGACC
145.59 B	D5	mab145973U	LG5	TGCAGGAGGTGCTCGT
145.59 B	D5	mab6902 3U	LG5	TGCAGGCACACACAGC

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;GGTGTGGCGGCGGGCTGGTGGCTTATTTGCCG
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AACACAGCTCATGATATAGTCGATCGATCACGTGTAGTTGCATGCATGTAGGG

LG1

cM		Marker	Kr.	Kapcsoltsági csoport (LG)	Marker szekvencia
	0 S	Cod	mab4412 4M	LG1	TGCAGCGCGCACACCAGC
	0 A	D5	mab119904M	LG1	TGCAGCTGCTGTGCCGCC
	1.35 S	Cod	mab3898 4M	LG1	TGCAGCTTGCCGCCGAGC
	1.35 AB	D5	mab151944M	LG1	TGCAGCATCCGCATGAGC
	1.35 A	D5	mab164504M	LG1	TGCAGCGCTTCTCCCGCC
	1.35 A	D5	mab117994M	LG1	TGCAGGCTCAGGCTCTGG
	1.35 A	D4	mab229834M	LG1	TGCAGGCTCAGGCTCTGG
	7.39 B	Cod	mab4638 4M	LG1	TGCAGCGCTTCTCCCGCC
	7.39 S	Cod	mab4102 4M	LG1	TGCAGCATCCGCATGAGC
	7.39 A	D5	mab125414M	LG1	TGCAGAGAGAGAGAGAGC
	8.73 S	Cod	mab541 4M	LG1	TGCAGTCCCCCTCCTCC
	8.73 A	D4	mab268714M	LG1	TGCAGATAGATAGATAGAT
	8.73 A	D4	mab231954M	LG1	TGCAGCTGCGCCTCCGTC
	8.73 A	Cod	mab5318 4M	LG1	TGCAGGTCGGCGCGGAGC
	8.73 AB	D5	mab6852 4M	LG1	TGCAGCTCAAGGAGTTCCG
	8.73 A	D5	mab162884M	LG1	TGCAGGTCGGCGCGGAGC
	9.4 B	D4	mab192404M	LG1	TGCAGCTGCGGACAAACC
	9.4 B	D4	mab180934M	LG1	TGCAGGTCGGCGCGGAGC
	9.4 S	Cod	mab208 4M	LG1	TGCAGTGACTCGTCGCTA
	9.4 A	D4	mab231334M	LG1	TGCAGGACAAGGGCATCT
	9.4 A	D5	mab134104M	LG1	TGCAGCTGCCGATGCTGA
	9.4 A	D5	mab104054M	LG1	TGCAGACGGTGACGGGCA
	9.4 AB	Cod	mab159214M	LG1	TGCAGGACAAGGGCATTG
	9.4 A	Cod	mab863 4M	LG1	TGCAGCGCAAGACCCTCT
	9.4 A	D4	mab252014M	LG1	TGCAGAGCTATCTGGGCT
	12.36 B	D5	mab110414M	LG1	TGCAGAGCTATCTCGGCT
	12.36 B	D5	mab115124M	LG1	TGCAGTGTGAGAAAGAAC
	12.36 S	Cod	mab1621 4M	LG1	TGCAGATTCTTCCGAGGA
	12.36 A	D4	mab212564M	LG1	TGCAGCCAATTCCGATCGA
	15.54 S	Cod	mab3245 4M	LG1	TGCAGTGTAACCTAGCGCA
	15.54 A	D5	mab8942 4M	LG1	TGCAGGCCATACCATAGCC
	15.54 A	D5	mab152054M	LG1	TGCAGTCCATCCACCCCT
	15.54 A	Cod	mab5592 4M	LG1	TGCAGGCGGCCAGAAGAV
	15.54 A	D4	mab191404M	LG1	TGCAGTCGGGCACTTCAA
	25.36 S	Cod	mab3598 4M	LG1	TGCAGATGATGAGACGAC
	25.36 A	D5	mab109524M	LG1	TGCAGCAGCGTGCCCTTA
	27.62 S	Cod	mab2973 4M	LG1	TGCAGCCGCCACTGCCCA
	27.62 AB	Cod	mab7105 4M	LG1	TGCAGACCTCGGCGTGCT
	27.62 AB	Cod	mab7104 4M	LG1	TGCAGCCATTAACACATCT
	27.62 A	Cod	mab2427 4M	LG1	TGCAGCGACGCCACGGC
	27.62 A	D4	mab209894M	LG1	TGCAGGCCAAACTGGACA
	27.62 AB	D5	mab119234M	LG1	TGCAGGACTGGTGACCCA
	27.62 A	D5	mab119224M	LG1	TGCAGGACTGGTGACCCA
	27.62 A	D4	mab235664M	LG1	TGCAGCAGCGGTACGAC

27.62 A	D4	mab221514M	LG1	TGCAGATCGCAAGAGGTA
31.26 B	D4	mab277054M	LG1	TGCAGGCTTGGGCTCGCC
31.26 B	Cod	mab1337 4M	LG1	TGCAGGCTTGGGCTCGCC
31.26 S	Cod	mab1337 4M	LG1	TGCAGGCTTGGGCTCGCC
31.26 A	D4	mab199084M	LG1	TGCAGCTTGATGGAAAGG
31.26 A	D4	mab201004M	LG1	TGCAGACGTAGACGGACT
31.26 A	D4	mab199384M	LG1	TGCAGCTCATGTACCACTT
31.26 A	D4	mab237934M	LG1	TGCAGACGAGCGCTCCCG
31.26 A	D4	mab189384M	LG1	TGCAGAGACCAGAACGGC
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31.26 A	D4	mab204574M	LG1	TGCAGCAAATCAACTTCT
31.26 A	Cod	mab4605 4M	LG1	TGCAGGCCCTTCTGTTCTC
31.26 A	D5	mab133404M	LG1	TGCAGGACGAGGTTCCGGC
31.26 A	D5	mab8604 4M	LG1	TGCAGGCCCTTCTGTTCTC
31.26 A	D4	mab247014M	LG1	TGCAGCTTAAGCTAATCTG
31.26 A	D4	mab266334M	LG1	TGCAGAGTACACACACGC
31.26 A	D4	mab194644M	LG1	TGCAGGCCCTTCTCTTCTT
31.26 A	D4	mab197424M	LG1	TGCAGTGCAACGGTGTGG
31.26 AB	D5	mab139164M	LG1	TGCAGCGCCGTGCTGCGC
31.26 AB	D5	mab7681 4M	LG1	TGCAGTGCGGGGGCGGC
31.26 AB	D5	mab162494M	LG1	TGCAGTGCGGGGGCGGC
31.26 A	D5	mab119594M	LG1	TGCAGCTTGTTGATATCGT
31.26 A	D4	mab222024M	LG1	TGCAGACGCTCGCGCGAC
31.26 A	D4	mab277534M	LG1	TGCAGTGCAACGGCCATG
31.26 A	D4	mab238584M	LG1	TGCAGAACCCTAGCGCGC
31.26 A	D4	mab238614M	LG1	TGCAGAACCAGTTTGAGA
31.26 A	D4	mab197454M	LG1	TGCAGTGCAACAGCCATG
35.6 B	D5	mab158104M	LG1	TGCAGCTCATGTACCACTT
35.6 B	Cod	mab3620 4M	LG1	TGCAGCTCATGTACCACTT
35.6 S	Cod	mab3707 4M	LG1	TGCAGCTTCTTCATCACGC
35.6 A	D5	mab8900 4M	LG1	TGCAGGGGGGCGGATCTA
35.6 A	D4	mab244344M	LG1	TGCAGGTAATCACAGGCA
35.6 A	D4	mab233764M	LG1	TGCAGCGAAGGAGCTGCC
35.6 A	D4	mab217674M	LG1	TGCAGGTAAGAACATCTC
35.6 A	D5	mab153054M	LG1	TGCAGGCGCCGATTGTTC
35.6 A	D4	mab170854M	LG1	TGCAGTTCCTCTTCAGCTT
44.53 B	D5	mab6416 4M	LG1	TGCAGTTCCTCTTCAGCTT
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44.53 A	Cod	mab578 4M	LG1	TGCAGGGGGGCATCCCGT
46.33 B	D5	mab9468 4M	LG1	TGCAGCGCCGCCGCTGCC
46.33 S	Cod	mab4426 4M	LG1	TGCAGCACCCGACGCTC
46.33 A	D4	mab263434M	LG1	TGCAGGCACGAGGCGACC
46.33 A	D4	mab264544M	LG1	TGCAGGCAAGCGGCCACC
46.33 A	D4	mab246004M	LG1	TGCAGGATGCAGGATGCA
46.33 A	D4	mab183214M	LG1	TGCAGCAGGCGATGGGTT
46.33 A	D4	mab217044M	LG1	TGCAGTCTTCAAGGTTAAA
46.33 A	D4	mab183224M	LG1	TGCAGTAGGCGCTGGGTT
46.55 B	D5	mab9593 4M	LG1	TGCAGATTGGGGACGGAC

46.55 B	D5	mab6964	4M	LG1	TGCAGGAGAATACGGCTT
46.55 B	D5	mab8724	4M	LG1	TGCAGAATAACGTCCGAG
46.55 B	Cod	mab5064	4M	LG1	TGCAGCAGGCGCTGGGA
46.55 S	Cod	mab2301	4M	LG1	TGCAGCTGTGCAATGTC
46.55 A	D5	mab8654	4M	LG1	TGCAGCCTTGCAGAAAGT
46.55 AB	Cod	mab8689	4M	LG1	TGCAGCACCGCAGGAGC
46.55 A	Cod	mab2369	4M	LG1	TGCAGTTTGTGTTGTGGAC
48.34 S	Cod	mab1439	4M	LG1	TGCAGCCTTGCAAGAAGT
48.78 B	D5	mab6446	4M	LG1	TGCAGGCAAGGTTTCGAGC
48.78 B	D4	mab195284M		LG1	TGCAGCCTTGCAAGAAGT
48.78 S	Cod	mab1712	4M	LG1	TGCAGCAGCAACACGAAC
48.78 A	D5	mab131674M		LG1	TGCAGGTAAGGAAGCCCT
49.9 S	Cod	mab197	4M	LG1	TGCAGGCAAGGTTTCGAGC
50.57 B	D4	mab230524M		LG1	TGCAGGCAAGGTTTCGAGC
50.57 B	D4	mab204294M		LG1	TGCAGCAGCACCTGCGCA
50.57 B	D4	mab171294M		LG1	TGCAGGCAAGGTTTCGAGC
50.57 S	Cod	mab1227	4M	LG1	TGCAGCAGCACCTGCGCA
51.94 B	D4	mab171274M		LG1	TGCAGGTGGAGCAGCGAC
51.94 B	D4	mab208994M		LG1	TGCAGGTGGCGGGTTCGC
51.94 S	Cod	mab199	4M	LG1	TGCAGGTGGAGCAGCGAC
53.54 S	Cod	mab4675	4M	LG1	TGCAGGACAGTGACAGCC
53.54 A	D4	mab209404M		LG1	TGCAGGGAGGCGTACAAA
53.54 A	D4	mab190124M		LG1	TGCAGGCACCCGCACTTG
53.54 A	D4	mab246764M		LG1	TGCAGCTTTCGTCGTCGTG
53.54 A	D4	mab213054M		LG1	TGCAGCAGAGAGGACTTG
53.76 B	D5	mab8521	4M	LG1	TGCAGAAGTTATTAGCGGA
53.76 B	D5	mab102314M		LG1	TGCAGCCGAAGAATCTTG
53.76 B	D5	mab121794M		LG1	TGCAGCCTGTACAAGCAC
53.76 S	Cod	mab706	4M	LG1	TGCAGCAGGGGACTGGAC
53.76 A	D4	mab280684M		LG1	TGCAGTAATCATCCGTACA
53.76 A	D4	mab218554M		LG1	TGCAGGAGCGCCCCGTTG
53.76 A	D4	mab247244M		LG1	TGCAGCTGCTTGATACGC
53.76 A	D4	mab235964M		LG1	TGCAGCACGGCGCGGGCC
53.76 A	D4	mab166934M		LG1	TGCAGGTGCTCTCCCCGTR
53.76 A	D4	mab275064M		LG1	TGCAGTCCGCGAGGCAGC
53.76 A	D4	mab274734M		LG1	TGCAGAGATATATACTTGC
54.21 B	Cod	mab1297	4M	LG1	TGCAGCGTGGGGCGCGG
54.21 S	Cod	mab1045	4M	LG1	TGCAGGAGCGCCCCGTTG
54.21 AB	D5	mab7252	4M	LG1	TGCAGCTCGAGCAGGTTG
54.21 AB	D5	mab9436	4M	LG1	TGCAGCTCAATGCAATGG
54.21 AB	D5	mab9449	4M	LG1	TGCAGCGTGAGAATTGCT
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54.21 AB	D5	mab6857	4M	LG1	TGCAGCTTAAAAAATGTC
54.21 AB	D5	mab6723	4M	LG1	TGCAGCCCTCCACCAGTC
54.21 AB	D5	mab131084M		LG1	TGCAGGTTGTTGCCGTTG
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54.21 AB	D5	mab7735	4M	LG1	TGCAGCTGCGGGCAGCC
54.21 AB	D5	mab8049	4M	LG1	TGCAGCGCAGAGAGGTTG

54.21 AB	D5	mab7748 4M	LG1	TGCAGCGGGTCATAGCCG
54.21 AB	D5	mab9345 4M	LG1	TGCAGGTAGAGACGCCGT
54.21 AB	D5	mab8816 4M	LG1	TGCAGTTTGCCGCTTTGAC
54.21 AB	D5	mab154374M	LG1	TGCAGTCTCCGTCTCTACT
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54.21 AB	D5	mab8588 4M	LG1	TGCAGGGAGCATGATGAG
54.21 AB	D5	mab9080 4M	LG1	TGCAGCGACGAAGATAGG
54.21 AB	D5	mab7983 4M	LG1	TGCAGGCGGTCTGGAACC
54.21 AB	D5	mab103094M	LG1	TGCAGCACCCCCGCCAT
54.21 AB	D5	mab9895 4M	LG1	TGCAGGTGCTGCACCTCC
54.21 AB	D5	mab121624M	LG1	TGCAGCGACGTTCTGACAT
54.21 A	D5	mab164614M	LG1	TGCAGGTGGTTGATTCTGT
54.21 A	D5	mab8681 4M	LG1	TGCAGCACGGCGGCATGC
54.21 AB	D5	mab164554M	LG1	TGCAGCAGTACCTGGCGG
54.21 A	D5	mab7521 4M	LG1	TGCAGGAGATGCGTCCGT
54.21 A	D5	mab130404M	LG1	TGCAGTCCCTCGAAACA
54.21 A	D4	mab181124M	LG1	TGCAGCAGCACGTTGCAC
54.21 A	D4	mab281104M	LG1	TGCAGGTGCTGGAGGACC
54.21 AB	Cod	mab192634M	LG1	TGCAGCGTGTCCAGCGCT
54.21 AB	Cod	mab194564M	LG1	TGCAGGGAGCATGATGAG
54.21 AB	Cod	mab193084M	LG1	TGCAGCCATTACGAACTCT
54.21 A	Cod	mab1303 4M	LG1	TGCAGGGAGCATGATGAG
54.21 A	D5	mab161834M	LG1	TGCAGCGTTGCTGCGCTG
55.58 B	D5	mab7142 4M	LG1	TGCAGAACATAATCTCTTT
55.58 B	D5	mab8451 4M	LG1	TGCAGCCATTACGAACTCC
55.58 B	D5	mab8434 4M	LG1	TGCAGCGACTCCGATCAG
55.58 S	Cod	mab898 4M	LG1	TGCAGCCATTACGAACTCT
55.58 A	D4	mab214024M	LG1	TGCAGAGGAGAAAGGAG
55.58 A	D4	mab183714M	LG1	TGCAGTCACTACTATTCCC
55.58 A	D4	mab181644M	LG1	TGCAGCTCCGCGCCGCCT
55.58 A	D4	mab218724M	LG1	TGCAGGACACAAGCAAGA
55.58 A	D5	mab8894 4M	LG1	TGCAGGGTTAAGATCAGA
55.58 A	D4	mab236074M	LG1	TGCAGCACCCCCGCCAT
55.58 A	D4	mab180434M	LG1	TGCAGCTCCAGCAGGTTG
55.58 A	D4	mab191544M	LG1	TGCAGGTGGTTGATTCTGT
55.58 A	D4	mab259414M	LG1	TGCAGCACGCGGGTCCCG
55.58 A	Cod	mab4323 4M	LG1	TGCAGTAGGTCGACGGCG
55.58 A	D4	mab273054M	LG1	TGCAGTCAGCCAAGCGCT
55.58 AB	Cod	mab1735 4M	LG1	TGCAGCTTCGAGACACGC
55.58 A	Cod	mab3371 4M	LG1	TGCAGCGACCTCTGGGAC
55.58 A	D4	mab180524M	LG1	TGCAGCGACTCGGCATA
55.58 A	D4	mab186464M	LG1	TGCAGCTTGAGAGGTGGC
55.58 A	D4	mab212264M	LG1	TGCAGCCGAGCACCTCG
55.58 AB	Cod	mab159834M	LG1	TGCAGACCGGCCCATC
55.58 A	Cod	mab734 4M	LG1	TGCAGGCGGTCTGGAACC
55.58 A	D5	mab162534M	LG1	TGCAGGAAGCAGCGCTGT
55.58 A	D4	mab193174M	LG1	TGCAGCATTACGACGGCG
55.58 A	D4	mab179824M	LG1	TGCAGTAGCGGAGGAAA

55.58 A	D4	mab271344M	LG1	TGCAGACTCTGCAAAGGC
57.18 B	D4	mab182904M	LG1	TGCAGGAAGCAGCGCTGT
57.18 B	D4	mab233374M	LG1	TGCAGCGCTGGCAGCGA
57.18 B	D4	mab271844M	LG1	TGCAGCGACCTCTGGGGC
57.18 B	D4	mab193534M	LG1	TGCAGATCAGGGGCGCGC
57.18 B	D4	mab197664M	LG1	TGCAGTCACCCAAGAACC
57.18 S	Cod	mab716 4M	LG1	TGCAGGAAGCAGCGCTGT
57.18 A	Cod	mab1135 4M	LG1	TGCAGCCCAGGTGTGCTT
57.18 A	D4	mab218144M	LG1	TGCAGGCGCGAGGGCAG
57.18 A	D4	mab218994M	LG1	TGCAGCTTCATTTCAAAAA
57.18 A	D5	mab152304M	LG1	TGCAGCAGGTCTGTCGAG
57.18 A	Cod	mab1742 4M	LG1	TGCAGCGCGGGGGCTCG
57.18 A	Cod	mab1853 4M	LG1	TGCAGCTGCTCAACACCG
57.18 A	D5	mab106334M	LG1	TGCAGTCATCTCGTCCA
57.18 A	D4	mab221704M	LG1	TGCAGAGGCCGCGCCGAG
57.18 A	Cod	mab751 4M	LG1	TGCAGGCATCGTGCGGGA
57.18 A	Cod	mab753 4M	LG1	TGCAGATGGGGCGCAGCC
57.18 A	D4	mab277084M	LG1	TGCAGAAAACGGCGTTAA
57.18 A	D4	mab227654M	LG1	TGCAGTCCAGCCGACTGC
57.18 A	D4	mab171604M	LG1	TGCAGGTACCTCAGATGA
57.18 A	D4	mab230584M	LG1	TGCAGGCACGCACAAAAA
57.18 A	D4	mab230924M	LG1	TGCAGGAGGCACGCGGG
57.18 A	Cod	mab1884 4M	LG1	TGCAGAGCAGTACACGTC
57.18 A	Cod	mab2587 4M	LG1	TGCAGTCTTAAGCCTCC
57.18 A	D4	mab187164M	LG1	TGCAGAAGGAGGGGAAAA
57.18 AB	Cod	mab188324M	LG1	TGCAGCTGACACATGCAT
57.18 AB	Cod	mab220344M	LG1	TGCAGCCGCACAGTCTCA
57.18 A	Cod	mab2258 4M	LG1	TGCAGGAGGGCAGAGCA
57.18 A	D4	mab226544M	LG1	TGCAGTTCTTGTGTGGC
57.18 AB	Cod	mab3931 4M	LG1	TGCAGCGCCTCACCTCGC
57.18 A	Cod	mab2979 4M	LG1	TGCAGTGCGGGCTTGCC
57.18 A	Cod	mab2015 4M	LG1	TGCAGTCCCCCTCGTCC
57.18 A	Cod	mab1809 4M	LG1	TGCAGTACGGCCAGGGC
57.18 AB	Cod	mab203214M	LG1	TGCAGGAACAACGTGAG
57.18 AB	Cod	mab247174M	LG1	TGCAGTGGCGGTGGATA
57.18 A	Cod	mab2031 4M	LG1	TGCAGGAACAACGTGAG
57.18 A	Cod	mab2056 4M	LG1	TGCAGCAGTCGTGACGCG
57.18 A	D4	mab210884M	LG1	TGCAGTGAAGAGGATC
57.18 A	D4	mab212404M	LG1	TGCAGCCGTGCGCTGCAT
57.18 A	D4	mab204564M	LG1	TGCAGCAAAGAGACGGAT
57.18 AB	Cod	mab9410 4M	LG1	TGCAGGAACAGCTATGAG
57.18 AB	Cod	mab7382 4M	LG1	TGCAGCGCCGCGCCGCC
57.18 AB	Cod	mab550 4M	LG1	TGCAGCCGCACGCCGTAG
57.18 AB	Cod	mab1195 4M	LG1	TGCAGGGCCTCGTGCCG
57.18 AB	Cod	mab643 4M	LG1	TGCAGAAGGCCGTGCCA
57.18 A	Cod	mab653 4M	LG1	TGCAGCTGACACATGCAT
57.18 A	Cod	mab2124 4M	LG1	TGCAGTTCGGCGGCAAC
57.18 A	D4	mab212274M	LG1	TGCAGCCGCAATACGACT

57.18 A	D4	mab203704M	LG1	TGCAGCGGCAGCACTCGC
57.18 A	Cod	mab30 4M	LG1	TGCAGAAGAAACGGCGG
57.18 A	Cod	mab1911 4M	LG1	TGCAGAACCGCCGCCGC
57.18 A	Cod	mab1903 4M	LG1	TGCAGGCAGCCATAGGAT
57.18 A	D4	mab279994M	LG1	TGCAGATCACCTTGAGTG
57.18 A	Cod	mab4930 4M	LG1	TGCAGCCATTCGGGAAC
57.18 A	Cod	mab399 4M	LG1	TGCAGGCTTCGTTGGAAT
57.18 AB	Cod	mab230634M	LG1	TGCAGGCAATTAAGTGGC
57.18 A	Cod	mab4008 4M	LG1	TGCAGGAGTTGAACGGCC
57.18 A	Cod	mab1835 4M	LG1	TGCAGCCCCTCGCCCCGC
57.18 A	D4	mab260404M	LG1	TGCAGGTCCGATGGCGCC
57.18 AB	Cod	mab4069 4M	LG1	TGCAGCCGCCCTCTGCC
57.18 AB	Cod	mab3711 4M	LG1	TGCAGTGTACCACCTCC
57.18 A	Cod	mab1224 4M	LG1	TGCAGTAGGGGATTTGAG
57.18 A	D4	mab264924M	LG1	TGCAGCCCACTCCCAAG
57.18 AB	D5	mab102344M	LG1	TGCAGCCCCTGGGCTGT
57.18 AB	D5	mab6498 4M	LG1	TGCAGGGTGGCCTTGCCA
57.18 AB	D5	mab8728 4M	LG1	TGCAGAACCGCCGCCACC
57.18 AB	D5	mab7467 4M	LG1	TGCAGCACCGCGACCTAT
57.18 AB	D5	mab107884M	LG1	TGCAGCTTCGAGACACGC
57.18 AB	D5	mab101104M	LG1	TGCAGCTCTCCGTCGCTC
57.18 AB	D5	mab122594M	LG1	TGCAGCCCACGCGTCAG
57.18 AB	D5	mab8088 4M	LG1	TGCAGATTGGTTCCGCTCA
57.18 AB	D5	mab163784M	LG1	TGCAGTACGCTGGGAGAG
57.18 AB	D5	mab7234 4M	LG1	TGCAGGTGACCGTCGGCC
57.18 A	D5	mab6464 4M	LG1	TGCAGCTGCGGGCTTGCC
57.18 A	D4	mab221174M	LG1	TGCAGCACCTCGAACTGG
57.18 AB	Cod	mab162324M	LG1	TGCAGCACGCACGCATCC
57.18 AB	Cod	mab159184M	LG1	TGCAGACGGTAGATTATGT
57.18 A	Cod	mab1155 4M	LG1	TGCAGCGGCATCCAGTGA
57.18 A	Cod	mab472 4M	LG1	TGCAGTCCCGCGCCGCT
57.18 A	Cod	mab4765 4M	LG1	TGCAGCATGGCCCCGAGC
57.18 A	Cod	mab1365 4M	LG1	TGCAGGCCCTGATTTGTAT
57.18 A	Cod	mab3584 4M	LG1	TGCAGGTGACCGTCGGCC
57.18 A	D5	mab158374M	LG1	TGCAGCCTGTAGTACTCTC
57.18 A	Cod	mab3173 4M	LG1	TGCAGCCGTGAAGATCCT
57.18 A	D5	mab6163 4M	LG1	TGCAGGCACCGCCGTCGT
57.18 A	D4	mab176914M	LG1	TGCAGTTGCTTTGGTAGTA
57.18 A	D4	mab219544M	LG1	TGCAGTACGGCCAGGGC
57.18 A	Cod	mab5089 4M	LG1	TGCAGCACGCAGCAAGCT
57.18 A	Cod	mab1429 4M	LG1	TGCAGCACGCCGTCGCCT
57.18 A	D4	mab192744M	LG1	TGCAGCGGCATCCAGTGA
57.18 A	D4	mab195074M	LG1	TGCAGTCCCCCTCGTCC
58.52 B	Cod	mab4036 4M	LG1	TGCAGGAGCTAGTGGTAG
58.52 B	Cod	mab947 4M	LG1	TGCAGGTTTCGATCTCGAC
58.52 B	Cod	mab3507 4M	LG1	TGCAGCTGAGGCTGCGCT
58.52 B	Cod	mab2001 4M	LG1	TGCAGCACGCACTCATCC
58.52 B	Cod	mab4600 4M	LG1	TGCAGGGGCCAATCCACA

58.52 B	Cod	mab770	4M	LG1	TGCAGCGGCAGTGCGTTG
58.52 S	Cod	mab825	4M	LG1	TGCAGAGGTAGCAAGTGT
58.52 A	D4	mab187694M		LG1	TGCAGGTTAACAACTCTTC
58.52 A	D4	mab181434M		LG1	TGCAGGCTTCGTTGGAATC
58.52 A	D4	mab238574M		LG1	TGCAGAACCGCGAGAAGC
58.52 A	D4	mab178044M		LG1	TGCAGTGGCCGCTCAGTC
58.52 A	D4	mab177944M		LG1	TGCAGTGGCTGGACGAGA
58.52 A	D4	mab245714M		LG1	TGCAGGCATGCCACCATG
58.52 A	D4	mab203274M		LG1	TGCAGCTTCGGCGGCAAC
58.52 A	D4	mab201234M		LG1	TGCAGAAGGCCGTGTCCA
58.52 A	D4	mab247344M		LG1	TGCAGTGCCTGAGGTGC
58.52 A	D4	mab250934M		LG1	TGCAGCAATTAAGTGGTG
58.52 A	D4	mab251874M		LG1	TGCAGAGGAGCGCTGGC
58.52 A	D4	mab176704M		LG1	TGCAGTTTAGCTGGCACAC
58.52 A	D4	mab254144M		LG1	TGCAGTGCGGGCCGACC
58.52 A	D4	mab263334M		LG1	TGCAGTGGGCGAGCGACC
58.52 A	D4	mab263414M		LG1	TGCAGGTGACCGTCGGCC
58.52 A	D4	mab263974M		LG1	TGCAGTCTTCGCCGTCGT
58.52 A	D4	mab199104M		LG1	TGCAGCTTCGAGCGCTCG
58.52 A	D4	mab267874M		LG1	TGCAGGGGAAGTGACTCC
58.52 A	D4	mab164884M		LG1	TGCAGTCGTGTCCAGAAA
58.52 A	D4	mab269434M		LG1	TGCAGTTTGGAGCATGCA
58.52 A	D4	mab171584M		LG1	TGCAGCACCGCGGTGACA
58.52 A	D4	mab178404M		LG1	TGCAGTGCCACTCGCAAC
58.52 A	D4	mab164724M		LG1	TGCAGCCTCGACACGCTC
58.52 A	D4	mab235844M		LG1	TGCAGCAGCAATCACAAAC
58.52 A	D4	mab235074M		LG1	TGCAGCCACTTTCGTCAAC
58.52 A	D4	mab207664M		LG1	TGCAGTGGCGGGACAAAAC
58.52 A	D4	mab207954M		LG1	TGCAGTGATTTGCGACGAA
58.52 A	D4	mab209164M		LG1	TGCAGGGGGAGGGCGGGA
58.52 A	D4	mab210874M		LG1	TGCAGTGCACCCAAGTC
58.52 A	D4	mab197644M		LG1	TGCAGTCACGTGCTGAGT
58.52 A	D4	mab195364M		LG1	TGCAGCCCACGGGCCACC
58.52 A	D4	mab193464M		LG1	TGCAGATTTTTGGCAAAAT
58.52 A	D4	mab193324M		LG1	TGCAGCACTGGCCTCATC
58.52 A	D4	mab218134M		LG1	TGCAGGCGCGCAGGTTTC
58.52 A	D4	mab190734M		LG1	TGCAGAGGCCGACCAGGC
58.52 A	D4	mab189334M		LG1	TGCAGAGAGACAAAATTC
58.52 A	D4	mab226904M		LG1	TGCAGTGGCTCCGTTGCT
58.52 A	D4	mab188694M		LG1	TGCAGCCTCCCCTCCTCC
58.52 A	D4	mab187014M		LG1	TGCAGATGAAGTAGTTCGT
58.52 A	D4	mab184754M		LG1	TGCAGTGCAAGCTCGTCT
58.52 A	D4	mab230744M		LG1	TGCAGGATGGATCTCGCC
58.52 A	D4	mab233154M		LG1	TGCAGCGGCGCGAGGCG
58.52 A	D4	mab233804M		LG1	TGCAGCGAACC AAAACAC
58.52 A	D4	mab234404M		LG1	TGCAGCCGCCGTTCTGCC
58.52 A	D4	mab171544M		LG1	TGCAGCAAGAACCAATTA
58.52 A	D4	mab274024M		LG1	TGCAGCGACCCGTTGGGC

58.52 A	D4	mab246794M	LG1	TGCAGCTTGGCGGCAGCA
58.52 A	D4	mab277844M	LG1	TGCAGCTCCTTCTCCTCTC
58.52 A	D4	mab281134M	LG1	TGCAGGAGTTCCCAGCGG
58.52 A	D4	mab193234M	LG1	TGCAGCAGTAACCCGCCA
58.52 A	D4	mab191164M	LG1	TGCAGTTTTTGAGCCGCC
58.52 A	D4	mab192694M	LG1	TGCAGCGGCGCTTTGTAA
58.52 A	D4	mab194694M	LG1	TGCAGGCACGCAGCGGCC
58.52 A	D4	mab217764M	LG1	TGCAGGGGTGAGGAGTG
58.52 A	D4	mab218974M	LG1	TGCAGCTTCTCTGAATTC
58.52 A	D4	mab221884M	LG1	TGCAGAGCAGTACACGTC
58.52 A	D4	mab268884M	LG1	TGCAGCAACACCACATGG
58.52 A	D4	mab274744M	LG1	TGCAGTGCGCCTCCCTCG
58.52 A	D4	mab247114M	LG1	TGCAGCTGGGTGCCACA
58.52 A	D4	mab234434M	LG1	TGCAGCCGCCGCATCGCT
58.52 A	D4	mab166034M	LG1	TGCAGCGCCACCTGCGCT
58.52 A	D4	mab280724M	LG1	TGCAGAACCGCCGCCGCC
58.52 A	D4	mab281454M	LG1	TGCAGGACGCGCTGCTGC
58.52 A	D4	mab167134M	LG1	TGCAGCGCCC CGCCGCC
58.52 A	D4	mab178494M	LG1	TGCAGTGCAGACAGGACC
58.52 A	D4	mab189354M	LG1	TGCAGAGACTGAGCCCCT
58.52 A	D4	mab185404M	LG1	TGCAGCGAGCAAGGAGTC
58.52 A	D4	mab191564M	LG1	TGCAGGTGGATGCAGGTA
58.52 A	D4	mab192834M	LG1	TGCAGCGCAGCGAGCAAT
58.52 A	D4	mab200874M	LG1	TGCAGAGGAGAGCTACAG
58.52 A	D4	mab202194M	LG1	TGCAGTCGTGGTGAGCTG
58.52 A	D4	mab208104M	LG1	TGCAGTCTGCATCTGCCAT
58.52 A	D4	mab212374M	LG1	TGCAGCCCCGCTCCCCTG
58.52 A	D4	mab212514M	LG1	TGCAGCCACC GCCGTGCC
58.52 A	D4	mab249794M	LG1	TGCAGCCAGCGCGCGAG
58.52 A	D4	mab267274M	LG1	TGCAGAGTAGGGGACGAC
58.52 A	D4	mab209024M	LG1	TGCAGGGTTGAGGCACGG
58.52 A	D4	mab190754M	LG1	TGCAGAGCAGCACTCAGT
58.52 A	D4	mab208724M	LG1	TGCAGGTGGGGCTCACTG
58.52 A	D4	mab242144M	LG1	TGCAGTTGCTGATTTGAG
58.74 B	Cod	mab4454 4M	LG1	TGCAGATGAAGTAGTTCTG
58.74 B	Cod	mab54 4M	LG1	TGCAGTGCCCCGCGCCGCC
58.74 S	Cod	mab1462 4M	LG1	TGCAGCAGGCGCCTTCAT
58.96 S	Cod	mab1566 4M	LG1	TGCAGCGGTTCCGGCGTCG
58.96 A	D4	mab247504M	LG1	TGCAGCTCTCGTCTTCGT
58.96 A	D4	mab251844M	LG1	TGCAGAGGATCACAGGTG
59.4 S	Cod	mab4223 4M	LG1	TGCAGAAGAGCTCCTCTT
59.4 A	D5	mab151994M	LG1	TGCAGCAGGTTCTTCTTTG
59.4 A	D5	mab158804M	LG1	TGCAGGGAGAATGAACCA
59.4 A	Cod	mab383 4M	LG1	TGCAGGGACATGCTGGTC
59.4 A	D5	mab162864M	LG1	TGCAGCGCACGCGCGTCT
59.4 A	Cod	mab4985 4M	LG1	TGCAGTAGGTGTGGTAAA
59.4 AB	Cod	mab232214M	LG1	TGCAGCTCTACGCCTACAC
59.4 AB	Cod	mab227354M	LG1	TGCAGTCTGCAAAGTCGG

59.4 A	Cod	mab2429	4M	LG1	TGCAGCGCCTCTGAAGA
59.4 A	Cod	mab3595	4M	LG1	TGCAGTAGAAGCAGCCAC
59.4 A	Cod	mab2528	4M	LG1	TGCAGCACATTGAATAAC
59.4 A	Cod	mab433	4M	LG1	TGCAGATCCTGAAACCCG
59.4 A	Cod	mab1878	4M	LG1	TGCAGCCAGCCGAAAAC
59.4 A	Cod	mab1912	4M	LG1	TGCAGCGCATCAAGATTCC
59.4 AB	Cod	mab2085	4M	LG1	TGCAGTAATGCGGCGGCC
59.4 A	Cod	mab599	4M	LG1	TGCAGCCGTCTCTCCGC
59.4 A	Cod	mab66	4M	LG1	TGCAGAGGATTGAGAACA
60.74 B	D5	mab6452	4M	LG1	TGCAGCAAAGAAAGGAGA
60.74 B	D5	mab9560	4M	LG1	TGCAGACGGGAATTGGGA
60.74 B	D5	mab1025	4M	LG1	TGCAGCCACCACCCGATC
60.74 B	D5	mab8486	4M	LG1	TGCAGCACCCCTGAGCGA
60.74 S	Cod	mab1161	4M	LG1	TGCAGCGCACGGTGGAGA
60.74 A	D4	mab2527	4M	LG1	TGCAGAAGTGTGCGTACT
60.74 AB	Cod	mab1871	4M	LG1	TGCAGAAGGCGGCGCAG
60.74 A	Cod	mab4190	4M	LG1	TGCAGTGCTACTAGAGATC
60.74 AB	Cod	mab1885	4M	LG1	TGCAGCGCCAGGGGGCTG
60.74 A	Cod	mab3921	4M	LG1	TGCAGCGCGAGGGGGCTG
60.74 A	D4	mab1841	4M	LG1	TGCAGCGCAGCGTTTGCG
60.74 A	Cod	mab3175	4M	LG1	TGCAGAGCATCGCGGAAG
60.74 A	Cod	mab2362	4M	LG1	TGCAGGCGCAGTACTCCC
60.74 A	D5	mab1459	4M	LG1	TGCAGAGCATCGCGGAAG
60.74 A	D4	mab2179	4M	LG1	TGCAGGGATTTACTATGAT
62.31 B	D4	mab1936	4M	LG1	TGCAGAGCATCGCGGAAG
62.31 B	D4	mab2298	4M	LG1	TGCAGGCTCCCCTTGCGA
62.31 S	Cod	mab1318	4M	LG1	TGCAGCGCAGCGTTTGCG
62.31 AB	D5	mab1635	4M	LG1	TGCAGCCATACGCACCCG
62.31 AB	D5	mab8209	4M	LG1	TGCAGCGCCCCACTACTT
62.31 AB	D5	mab1093	4M	LG1	TGCAGCATTTCTGCTAGGT
62.31 AB	D5	mab6467	4M	LG1	TGCAGCTATGTGAGATTCC
62.31 AB	D5	mab1331	4M	LG1	TGCAGGAGGGACAGCTTC
62.31 AB	D5	mab1329	4M	LG1	TGCAGGCACGCGCCGCC
62.31 A	D5	mab1301	4M	LG1	TGCAGTGAAACATCACCA
62.31 A	Cod	mab1313	4M	LG1	TGCAGTGCCATGGAGGT
62.98 S	Cod	mab2441	4M	LG1	TGCAGCGTGGCCAGGCA
62.98 A	Cod	mab962	4M	LG1	TGCAGCCTCTGTTCGTTT
62.98 A	D4	mab1913	4M	LG1	TGCAGTCGTTCCCGCCC
62.98 A	D4	mab1713	4M	LG1	TGCAGGGCAGCAGCAACT
62.98 A	D4	mab2421	4M	LG1	TGCAGTTGGGCCAACGCC
62.98 A	D4	mab2489	4M	LG1	TGCAGCGACGCCGTTCCG
62.98 A	D4	mab1847	4M	LG1	TGCAGTCCTGCACTGCAC
62.98 A	D4	mab2539	4M	LG1	TGCAGCAGGGAAGTTGCA
62.98 A	D4	mab1716	4M	LG1	TGCAGGCGCTGGTGCCG
62.98 A	D4	mab1707	4M	LG1	TGCAGAAGATGTCGCTGG
62.98 A	D4	mab2199	4M	LG1	TGCAGCGACCCGCCAGC
62.98 A	D4	mab2103	4M	LG1	TGCAGGACGACGACGTTG
62.98 A	D4	mab2136	4M	LG1	TGCAGATCCGTGGCGCAC

62.98 A	D4	mab200614M	LG1	TGCAGCACAAAGTACGTAC
62.98 A	D4	mab211434M	LG1	TGCAGCGTACCAGACCAC
63.42 B	D5	mab156524M	LG1	TGCAGTGGAGGTGGTGGC
63.42 B	Cod	mab3361 4M	LG1	TGCAGCCCCAGCGCTCGC
63.42 B	Cod	mab1017 4M	LG1	TGCAGCCTGAGGGTGGAC
63.42 S	Cod	mab679 4M	LG1	TGCAGTCTGCACTGCAC
63.42 A	D5	mab103554M	LG1	TGCAGATCCGTGTCACGC
64.99 B	D4	mab204664M	LG1	TGCAGATCCGTGTCACGC
64.99 S	Cod	mab220 4M	LG1	TGCAGTTTTTGGCTGCAAC
64.99 A	D5	mab138744M	LG1	TGCAGAAGAGATCGACAT
64.99 A	Cod	mab5026 4M	LG1	TGCAGCAGCAAGCCACCT
66.78 B	D4	mab191924M	LG1	TGCAGGCGTGAGGGGCG
66.78 B	D4	mab233074M	LG1	TGCAGCGGCTGCGAGGG
66.78 S	Cod	mab1418 4M	LG1	TGCAGCAAGGCGTCGGAC
66.78 A	D4	mab217464M	LG1	TGCAGGTTCTAAGCTGGG
66.78 A	Cod	mab5154 4M	LG1	TGCAGTGTGACGCGGTGC
66.78 A	Cod	mab2283 4M	LG1	TGCAGCGGTTCTCTCCA
66.78 A	Cod	mab211 4M	LG1	TGCAGCTCGCCCCTGCGC
66.78 AB	D5	mab121884M	LG1	TGCAGCCTCTGGGAGAAC
66.78 AB	D5	mab132224M	LG1	TGCAGGGAAGACGGGGTC
66.78 AB	D5	mab6469 4M	LG1	TGCAGAAAGAGGAGGCC
66.78 AB	D5	mab138214M	LG1	TGCAGAGAGATTCAGCGT
66.78 AB	D5	mab6471 4M	LG1	TGCAGCTCGCCCCTGCGC
66.78 AB	D5	mab8870 4M	LG1	TGCAGTAAAAGAAATCCA
66.78 A	D5	mab7057 4M	LG1	TGCAGCGGTGCACGAGGC
66.78 A	D4	mab208144M	LG1	TGCAGTCTCAGGTCCTCCA
66.78 A	D4	mab170454M	LG1	TGCAGCCATGACCTGCTG
66.78 A	D4	mab255144M	LG1	TGCAGACGGGCAGGAGC
68.35 B	D5	mab106654M	LG1	TGCAGGTTCTGAGCTGGG
68.35 B	D4	mab266244M	LG1	TGCAGCCGTGCTGTGCA
68.35 B	D4	mab174394M	LG1	TGCAGTAAACCGCCGAGT
68.35 B	D4	mab269694M	LG1	TGCAGCTCGCCCCTGCGC
68.35 B	D4	mab211744M	LG1	TGCAGCGCGGTGAGCAC
68.35 B	D4	mab211274M	LG1	TGCAGCTACGTCGCCACG
68.35 B	D4	mab250314M	LG1	TGCAGCAGGCTTCCCAGC
68.35 B	D4	mab192904M	LG1	TGCAGCCTGCGGGAGAGC
68.35 B	D4	mab232744M	LG1	TGCAGCGTGCTCAGCCAT
68.35 B	D4	mab198344M	LG1	TGCAGGGCCAAGGCGGT
68.35 S	Cod	mab4160 4M	LG1	TGCAGGTTCTGAGCTGGG
68.35 A	D5	mab130974M	LG1	TGCAGTAAACTTGGCCAA
68.35 A	Cod	mab3418 4M	LG1	TGCAGGTGAGCATCACGA
69.47 S	Cod	mab5291 4M	LG1	TGCAGGTGGAGGTCGTCA
70.36 B	D5	mab132454M	LG1	TGCAGGCGGAGGAGGAC
70.36 S	Cod	mab280 4M	LG1	TGCAGCTTGGAGAAGCTA
71.03 B	D5	mab156334M	LG1	TGCAGCCTGAACACGTCG
71.03 B	D5	mab103704M	LG1	TGCAGAGGCGAATTTTTG
71.03 S	Cod	mab1390 4M	LG1	TGCAGAGGCAAATTTTTG
71.03 A	D5	mab160974M	LG1	TGCAGAAGAAGGCCGAGC

71.03 A	D4	mab249774M	LG1	TGCAGCCAGCTCTGCGGA
71.03 A	D5	mab124184M	LG1	TGCAGCAACTGGAGCAGC
71.03 A	D5	mab158324M	LG1	TGCAGTGTACTCGTCCGC
73.52 S	Cod	mab3239 4M	LG1	TGCAGGTTGGTGAGCTGT
73.52 AB	D5	mab133244M	LG1	TGCAGGAGCCGCTAGAGC
73.52 AB	D5	mab157054M	LG1	TGCAGAAGTGGGGATCGC
73.52 AB	D5	mab6472 4M	LG1	TGCAGGTGCCACACGCC
73.52 AB	D5	mab9550 4M	LG1	TGCAGAGCCC GCGAGAA
73.52 AB	D5	mab106774M	LG1	TGCAGGTGCGCTAGCTAG
73.52 AB	D5	mab8670 4M	LG1	TGCAGCATCTGAAGTTGC
73.52 AB	D5	mab144534M	LG1	TGCAGCGATCGCGATCAG
73.52 AB	D5	mab8457 4M	LG1	TGCAGCGAATGTGGTCGT
73.52 AB	D5	mab7092 4M	LG1	TGCAGCTCCTGCAAGGGT
73.52 A	D5	mab158034M	LG1	TGCAGGGGCAAGCAGAA
73.74 S	Cod	mab4453 4M	LG1	TGCAGACACTTCTGTAAA
73.74 A	D5	mab149424M	LG1	TGCAGGTTCTTCTCTCC
73.74 A	D4	mab271424M	LG1	TGCAGCTCCAGCACGGCC
73.74 A	D5	mab129434M	LG1	TGCAGTTGTGCTGGACTC
75.54 B	D5	mab101224M	LG1	TGCAGTCCACGGCGTTG
75.54 S	Cod	mab2105 4M	LG1	TGCAGCAATCGACATCAA
75.54 A	D4	mab246444M	LG1	TGCAGGACCTTGGAGCGC
76.66 S	Cod	mab3877 4M	LG1	TGCAGGGGAGCACGAATT
76.66 A	D5	mab106094M	LG1	TGCAGTGCACATGATAAG
76.66 A	D5	mab130794M	LG1	TGCAGTACTGTGCTGCCA
76.66 A	Cod	mab3913 4M	LG1	TGCAGCTCTGTGTGGCCG
76.66 AB	Cod	mab243544M	LG1	TGCAGTACTGTGCTGCCA
76.66 AB	Cod	mab229774M	LG1	TGCAGGCTGCAATTCATG
76.66 AB	Cod	mab171344M	LG1	TGCAGTGCACATGATAAG
76.66 A	Cod	mab4103 4M	LG1	TGCAGGGTACACTTTATAT
76.66 A	Cod	mab1648 4M	LG1	TGCAGTTTATAGTTGGTAA
76.66 AB	Cod	mab231064M	LG1	TGCAGGAGCGGCGAGCG
76.66 AB	Cod	mab253394M	LG1	TGCAGGCGCAGGGGCGC
76.66 AB	Cod	mab214524M	LG1	TGCAGACCCAGCTACGTC
76.66 A	Cod	mab1036 4M	LG1	TGCAGCAGCAGAAGTAGG
76.66 A	D5	mab136874M	LG1	TGCAGCAGCAGCCTCCTC
76.66 A	Cod	mab4863 4M	LG1	TGCAGAGGAAGGAGGCG
76.66 A	D5	mab121404M	LG1	TGCAGCGCCACAGTGACC
79.14 B	D5	mab9016 4M	LG1	TGCAGCTCTGTGTGGCCG
79.14 B	D5	mab122784M	LG1	TGCAGCCAGCCCGTGTCT
79.14 B	D5	mab158844M	LG1	TGCAGATTCTTCTTTTCTT
79.14 B	D5	mab8372 4M	LG1	TGCAGGAGCGGCGAGCG
79.14 B	D5	mab9417 4M	LG1	TGCAGCTGGCTCGTCGTC
79.14 B	D5	mab149544M	LG1	TGCAGAGCGCGGCGTCGT
79.14 B	D5	mab160024M	LG1	TGCAGGGTCATGACCTGC
79.14 S	Cod	mab4559 4M	LG1	TGCAGCCACCTGTCTAAG
79.14 A	Cod	mab436 4M	LG1	TGCAGTTAACGTGTCAGTC
79.14 A	D4	mab236424M	LG1	TGCAGCAACCGAACGACA
79.14 A	D4	mab248824M	LG1	TGCAGCGCAAGTCTTCTTA

79.14 A	Cod	mab603	4M	LG1	TGCAGCGTCAATGCAGTG
79.14 A	D4	mab226674M		LG1	TGCAGTTAGCAGCGACAA
79.14 A	Cod	mab2104	4M	LG1	TGCAGGGTCCATGAAACC
79.14 A	Cod	mab894	4M	LG1	TGCAGGCGGGCTCGGAG
79.14 A	D4	mab200464M		LG1	TGCAGCAGCAGAAGTAGG
80.48 B	D4	mab232944M		LG1	TGCAGCGGTGACCGCGG
80.48 B	D4	mab264534M		LG1	TGCAGGCGGGCTCGGAG
80.48 B	D4	mab199434M		LG1	TGCAGCTAGCCATAGCCC
80.48 B	D4	mab251144M		LG1	TGCAGATTTGCCGCGCAA
80.48 B	D4	mab250534M		LG1	TGCAGCAGCAGCCTCCTC
80.48 B	D4	mab219764M		LG1	TGCAGCGCTCCATTGCAG
80.48 B	D4	mab247794M		LG1	TGCAGCTAGGCGGACGGA
80.48 S	Cod	mab5606	4M	LG1	TGCAGCAGAGCAAACACC
80.48 A	D4	mab231774M		LG1	TGCAGCTGGTGGGCTCC
80.48 A	D5	mab131394M		LG1	TGCAGGTGACCAAGGGG
80.48 A	D5	mab149494M		LG1	TGCAGGGGGCAGCGCTC
80.48 A	D4	mab209324M		LG1	TGCAGGGCAAGTTCGCGC
80.48 AB	D5	mab8622	4M	LG1	TGCAGCTGGTGACAGTGC
80.48 AB	D5	mab132784M		LG1	TGCAGGCCATGGAGCAGC
80.48 AB	D5	mab8871	4M	LG1	TGCAGTAAAAATTTGTAGC
80.48 AB	D5	mab103424M		LG1	TGCAGATGTGATTTGCCAC
80.48 AB	D5	mab154654M		LG1	TGCAGTTCCGTGGCGCGC
80.48 AB	D5	mab107874M		LG1	TGCAGCTTCGGCCACGGG
80.48 AB	D5	mab141064M		LG1	TGCAGCTGCGGGAGCTCC
80.48 A	D5	mab153354M		LG1	TGCAGGCTGCGGTGGCTC
80.48 A	D4	mab261554M		LG1	TGCAGCTTCGGCCACGGG
80.48 A	D5	mab133474M		LG1	TGCAGGAATGTGAGACCC
80.48 A	Cod	mab1071	4M	LG1	TGCAGCTGCGGGAGCTCC
80.48 A	D4	mab228544M		LG1	TGCAGGTGATTCAGATTAT
80.48 A	D4	mab244614M		LG1	TGCAGGGGAGACGGCGGG
80.48 A	D5	mab7785	4M	LG1	TGCAGCACGGCCAGGGC
80.48 A	D5	mab133674M		LG1	TGCAGGAAAACACACACC
80.48 A	D4	mab188424M		LG1	TGCAGCGTCCCACGGCA
82.05 B	D5	mab7297	4M	LG1	TGCAGGTGTCGCCGTGGG
82.05 B	D5	mab6475	4M	LG1	TGCAGTACTCTGCAACAC
82.05 B	D5	mab6473	4M	LG1	TGCAGAAGTTCAAGAAGG
82.05 B	D4	mab235614M		LG1	TGCAGCAGCGTTTCATTGT
82.05 B	D4	mab250694M		LG1	TGCAGCACTGCCGCTCCC
82.05 B	D4	mab271624M		LG1	TGCAGCATTGACTTCGGG
82.05 B	D4	mab233384M		LG1	TGCAGCGCTGGAGCTTGT
82.05 B	D4	mab207554M		LG1	TGCAGTGTCAATGACGGT
82.05 B	D4	mab186534M		LG1	TGCAGCTGCGGGAGCTCC
82.05 B	D4	mab210184M		LG1	TGCAGGAGGCAGCGCAC
82.05 B	D4	mab200254M		LG1	TGCAGCATGCCGTCCTCC
82.05 B	D4	mab186974M		LG1	TGCAGCACCGTGCGTTG
82.05 S	Cod	mab213	4M	LG1	TGCAGAAGTTCAAGAAGG
82.05 A	D5	mab136944M		LG1	TGCAGCAGCAACAGCAAC
84.75 B	D5	mab8606	4M	LG1	TGCAGGATCTCCACCTGC

84.75 S	Cod	mab1057 4M	LG1	TGCAGGATCTCCACCTGC
84.75 A	D4	mab242344M	LG1	TGCAGTTCACTGTCGTTC
85.19 B	D5	mab9300 4M	LG1	TGCAGTGCGGGATGTCGA
85.19 B	D4	mab238224M	LG1	TGCAGAATGTAATTTAGAA
85.19 B	D4	mab202034M	LG1	TGCAGTGCGGGATGTCGA
85.19 S	Cod	mab1446 4M	LG1	TGCAGTGCGGGATGTCGA
85.19 A	D5	mab134034M	LG1	TGCAGCTGCTGCGCACCT
85.19 A	D4	mab255854M	LG1	TGCAGCCTCCTCCTTTGC
85.19 A	D4	mab231864M	LG1	TGCAGCTGCTGCGCACCT
85.19 A	D4	mab217024M	LG1	TGCAGTGAAGCACCCAGC
93.61 S	Cod	mab1886 4M	LG1	TGCAGCCTCGCCGTGGC
93.61 A	D4	mab210824M	LG1	TGCAGCTGCTGCATCGTC
93.61 A	D4	mab217694M	LG1	TGCAGGTACCTGGTGATC
93.61 A	Cod	mab1537 4M	LG1	TGCAGCAGCAGTTCGTGT
93.61 A	D5	mab8301 4M	LG1	TGCAGTGCAACTTCGGTG
93.61 A	D5	mab107454M	LG1	TGCAGGCAATGTGGGAGT
93.61 A	Cod	mab2173 4M	LG1	TGCAGACTCACAGGACAA
93.61 A	D4	mab208884M	LG1	TGCAGGTGCGCAGCTTCG
93.61 A	D4	mab207934M	LG1	TGCAGTGCAACTTCGGTG
93.61 A	D4	mab271804M	LG1	TGCAGCAGCAGTTCGTGT
93.61 A	D4	mab212604M	LG1	TGCAGCATTCCAATTTAGT
93.61 A	Cod	mab4712 4M	LG1	TGCAGCTTACCGCCGCTC
93.61 A	D4	mab174884M	LG1	TGCAGATTTAATCTGTGTG
93.61 A	Cod	mab5687 4M	LG1	TGCAGAACAGAGCCAAAC
97.94 S	Cod	mab2999 4M	LG1	TGCAGGTACCTGGTGATC
97.94 A	D5	mab9488 4M	LG1	TGCAGCCTACGGGATGTC
97.94 A	D5	mab9784 4M	LG1	TGCAGTGGCTATGCGCGC
97.94 A	D5	mab7364 4M	LG1	TGCAGGAGGCGCCGCCG
97.94 A	D5	mab162174M	LG1	TGCAGAGTGAGCCTTGAG
108.14 B	D5	mab157074M	LG1	TGCAGCCAGAGAGTCCCA
108.14 B	D5	mab7163 4M	LG1	TGCAGCTATGTGAGATTCC
108.14 S	Cod	mab3380 4M	LG1	TGCAGGGATGCCGAGTGC
108.59 B	D4	mab184264M	LG1	TGCAGCCACCAAGGCCA
108.59 B	D4	mab179614M	LG1	TGCAGGGACCC
108.59 B	D4	mab192544M	LG1	TGCAGCTAGAGTCCCAAA
108.59 S	Cod	mab5389 4M	LG1	TGCAGGAGCTCCTTGTGG
108.59 A	D5	mab9590 4M	LG1	TGCAGCCGGAGGCATCGT
108.59 A	D5	mab157414M	LG1	TGCAGATCGGCCTCCCCG
109.73 B	D4	mab190064M	LG1	TGCAGGCCTCACCTTGTT
109.73 B	D5	mab6402 4M	LG1	TGCAGGACGTG
109.73 B	D4	mab170634M	LG1	TGCAGGACGTGTTCTCA
109.73 B	D5	mab8162 4M	LG1	TGCAGGCCTCACCTTGTT
109.73 S	Cod	mab890 4M	LG1	TGCAGGCCTCACCTTGTT
109.73 A	D4	mab169034M	LG1	TGCAGACACCAATTCG
115.25 S	Cod	mab3599 4M	LG1	TGCAGATCCCAGTGGTCG
115.25 A	Cod	mab1605 4M	LG1	TGCAGTTGGTCTGATGG
115.25 A	Cod	mab1872 4M	LG1	TGCAGGGTCGTGGCTGA
115.25 A	Cod	mab1874 4M	LG1	TGCAGGCTGGTGTGTGC

115.25 A	Cod	mab3993 4M	LG1	TGCAGCTCATCAACCAGCC
115.25 A	D4	mab216684M	LG1	TGCAGTGGCGATGGTGAA
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115.25 A	D4	mab217904M	LG1	TGCAGGGCCGTAAACTGA
115.25 A	D4	mab252714M	LG1	TGCAGAAGTTGTAGCTTTC
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115.25 A	D5	mab9591 4M	LG1	TGCAGCACGCATGCCGAC
115.25 A	D5	mab126494M	LG1	TGCAGTGCGCCCGCGCC
115.25 A	D5	mab111314M	LG1	TGCAGGGAGATACTGTATA
115.25 A	D5	mab111284M	LG1	TGCAGGTCATGCTGGCAG
115.25 A	D5	mab111464M	LG1	TGCAGCGGCACGGCCAA
115.25 A	D5	mab143784M	LG1	TGCAGGAAGGTGAGCCCC
126.85 S	Cod	mab214 4M	LG1	TGCAGCAACGTTTCATGTAT
126.85 A	Cod	mab1378 4M	LG1	TGCAGGAGCGGGTGGAG
126.85 A	D4	mab190604M	LG1	TGCAGCACAGGCTGGCCC
126.85 A	D4	mab187564M	LG1	TGCAGTGGAGGCAGGGG
126.85 A	D5	mab111244M	LG1	TGCAGGTGGTGTGCGTAC
126.85 A	D5	mab150404M	LG1	TGCAGAGGGGTCCGGCA
131.42 B	D5	mab126544M	LG1	TGCAGCATGCATCCCACA
131.42 B	D5	mab162714M	LG1	TGCAGATCGTGTCACTCCT
131.42 S	Cod	mab4934 4M	LG1	TGCAGATCGTGTCACTCCT
131.42 A	D4	mab236854M	LG1	TGCAGATGCACTCTCCCG
131.42 A	D4	mab255644M	LG1	TGCAGAATCTTGATCGGAC
131.42 A	D4	mab210084M	LG1	TGCAGGATGCTCCTCTGG
131.42 A	D4	mab200764M	LG1	TGCAGATGCCTGAAGACA
131.42 A	D4	mab253494M	LG1	TGCAGGAGCGGGTGGAG
131.42 A	D4	mab190164M	LG1	TGCAGGAGCGGGTGGAG
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132.99 B	D4	mab214954M	LG1	TGCAGAAAAGAAGGATCG
132.99 S	Cod	mab2243 4M	LG1	TGCAGTGCCGCCGCATGG
132.99 A	D4	mab249944M	LG1	TGCAGCCAAGGCCGTGGC
132.99 A	Cod	mab3139 4M	LG1	TGCAGATCGGGCACGCCG
132.99 A	D5	mab161554M	LG1	TGCAGCATCCGCAAGCAC
132.99 A	D4	mab197174M	LG1	TGCAGTTCATGCATGTCAT
132.99 A	D4	mab188994M	LG1	TGCAGCAGCCGCAAGCAC
136.63 B	D4	mab181544M	LG1	TGCAGGAGGAGACCAACA
136.63 S	Cod	mab4526 4M	LG1	TGCAGCATCCGCAAGCAC
138.01 S	Cod	mab2303 4M	LG1	TGCAGCTTCTGGACAGGG
138.01 A	D4	mab200484M	LG1	TGCAGCAGCACCAGCGCC
138.01 A	D4	mab207354M	LG1	TGCAGTTGCTCGTTTGGG
138.01 A	D4	mab183544M	LG1	TGCAGAGCTTATGCTTTCA
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LG11

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	14.25 A	D5	mab6590	4U	LG11
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93.66 A	Cod	mab5285	4U	LG11

93.66 A	Cod	mab5120	4U	LG11
93.66 A	D4	mab25445	4U	LG11
93.66 A	D4	mab22399	4U	LG11
93.66 A	D4	mab21547	4U	LG11
93.66 A	D4	mab25982	4U	LG11
93.66 A	D4	mab27178	4U	LG11
93.66 A	D4	mab20690	4U	LG11
93.66 A	D4	mab26954	4U	LG11
93.66 S	Cod	mab4212	4U	LG11
94.55 A	D4	mab18460	4U	LG11
94.55 A	D5	mab11967	4U	LG11
94.55 A	D5	mab9868	4U	LG11
94.55 AB	D5	mab16096	4U	LG11
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94.55 A	D5	mab14613	4U	LG11
94.55 A	D5	mab14759	4U	LG11
94.55 A	D4	mab22385	4U	LG11
94.55 AB	Cod	mab20599	4U	LG11
94.55 AB	Cod	mab19894	4U	LG11
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94.55 B	Cod	mab5586	4U	LG11
94.55 B	Cod	mab1260	4U	LG11
94.55 S	Cod	mab3097	4U	LG11
96.35 A	D4	mab20221	4U	LG11
96.35 A	D4	mab26017	4U	LG11
96.35 AB	D5	mab8244	4U	LG11
96.35 AB	D5	mab12298	4U	LG11
96.35 AB	D5	mab8243	4U	LG11
96.35 AB	D5	mab7225	4U	LG11
96.35 AB	D5	mab7759	4U	LG11
96.35 A	D5	mab15768	4U	LG11
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96.35 A	D4	mab22603	4U	LG11
96.35 AB	D5	mab9376	4U	LG11
96.35 AB	D5	mab12067	4U	LG11
96.35 A	D5	mab10115	4U	LG11
96.35 S	Cod	mab4241	4U	LG11
97.69 A	Cod	mab3746	4U	LG11
97.69 AB	D5	mab15481	4U	LG11
97.69 A	D5	mab8013	4U	LG11
97.69 AB	Cod	mab26234	4U	LG11
97.69 AB	Cod	mab19723	4U	LG11
97.69 AB	Cod	mab17161	4U	LG11
97.69 A	Cod	mab2458	4U	LG11
97.69 A	Cod	mab5617	4U	LG11

97.69 A	Cod	mab4375	4U	LG11
97.69 S	Cod	mab5306	4U	LG11
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103.65 A	Cod	mab2213	4U	LG11
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104.32 B	Cod	mab4560	4U	LG11
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129.15 S	Cod	mab4575	4U	LG11
131.87 S	Cod	mab189	4U	LG11
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135.27 B	D5	mab15844	4U	LG11
135.27 S	Cod	mab3434	4U	LG11

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155.18 B	D5	mab16182	4U	LG11
155.18 S	Cod	mab1038	4U	LG11
158.13 B	D5	mab15221	4U	LG11
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Marker szekvencia

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LG14

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0 A	D5	mab6486	5M	LG14
0 A	D4	mab240115M		LG14
1.8 B	D4	mab172755M		LG14
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1.8 B	D5	mab122315M		LG14
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1.8 S	Cod	mab249	5M	LG14
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2.92 A	D4	mab217845M		LG14
2.92 A	Cod	mab3815	5M	LG14
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6.06 A	D4	mab173325M		LG14
6.06 A	D4	mab275105M		LG14

6.06 AB	Cod	mab158025M	LG14
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6.06 A	D4	mab280955M	LG14
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7.4 B	D5	mab8148 5M	LG14
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8.52 A	D4	mab202125M	LG14
8.52 A	D4	mab196685M	LG14
8.52 A	D5	mab9054 5M	LG14
11.49 S	Cod	mab4691 5M	LG14
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11.49 A	D4	mab176655M	LG14
11.49 A	D4	mab179255M	LG14
11.49 A	D5	mab6488 5M	LG14
11.49 A	D4	mab277825M	LG14
11.49 A	D4	mab240575M	LG14
11.49 A	D5	mab9838 5M	LG14
11.49 A	D4	mab190835M	LG14
11.49 A	D5	mab7844 5M	LG14
12.84 B	D4	mab172775M	LG14
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12.84 S	Cod	mab1776 5M	LG14
12.84 A	Cod	mab1624 5M	LG14
12.84 AB	D5	mab9143 5M	LG14
12.84 AB	D5	mab8866 5M	LG14
12.84 A	D5	mab109755M	LG14
12.84 A	Cod	mab860 5M	LG14
12.84 A	D4	mab215905M	LG14
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12.84 A	D5	mab110905M	LG14
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12.84 A	Cod	mab5040 5M	LG14

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12.84 A	D4	mab186645M	LG14
12.84 A	D4	mab270945M	LG14
12.84 A	D4	mab172125M	LG14
12.84 A	D5	mab7867 5M	LG14
12.84 A	D4	mab205575M	LG14
12.84 A	Cod	mab5714 5M	LG14
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15.34 A	D4	mab239905M	LG14
15.34 A	D4	mab223475M	LG14
15.34 A	D4	mab175195M	LG14
15.34 A	Cod	mab1869 5M	LG14
15.34 A	D4	mab240035M	LG14
15.34 A	Cod	mab1024 5M	LG14
15.34 A	D4	mab223645M	LG14
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15.34 A	D4	mab240215M	LG14
15.34 A	D4	mab240485M	LG14
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15.34 AB	Cod	mab135525M	LG14
15.34 A	Cod	mab2004 5M	LG14
15.34 AB	Cod	mab3214 5M	LG14
15.34 AB	Cod	mab3324 5M	LG14
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15.34 A	Cod	mab2310 5M	LG14
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15.34 A	D4	mab194045M	LG14
15.34 A	D4	mab269785M	LG14
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15.34 A	D4	mab184615M	LG14
15.34 A	D4	mab272845M	LG14
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15.34 A	D4	mab279115M	LG14
15.34 A	D4	mab179395M	LG14
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15.34 A	D4	mab170515M	LG14
15.34 A	D4	mab181155M	LG14
15.34 A	D4	mab181315M	LG14
15.34 A	D4	mab277385M	LG14
15.34 A	D4	mab275665M	LG14
15.34 A	D4	mab275395M	LG14

15.34 A	D4	mab269015M	LG14
15.34 A	D4	mab201465M	LG14
15.34 A	D4	mab224885M	LG14
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15.34 A	D4	mab195055M	LG14
15.34 A	D4	mab225055M	LG14
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15.34 A	D4	mab241285M	LG14
15.34 A	D4	mab202825M	LG14
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15.34 A	D4	mab194105M	LG14
15.34 A	D4	mab189595M	LG14
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15.34 AB	D5	mab122705M	LG14
15.34 AB	D5	mab137675M	LG14
15.34 A	D5	mab118185M	LG14
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15.34 A	D4	mab273115M	LG14
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15.34 A	Cod	mab4815 5M	LG14
15.34 A	Cod	mab4643 5M	LG14
15.34 A	D4	mab207005M	LG14
15.34 AB	Cod	mab6897 5M	LG14
15.34 AB	Cod	mab7943 5M	LG14
15.34 A	Cod	mab4283 5M	LG14
15.34 A	Cod	mab4230 5M	LG14
15.34 A	Cod	mab4063 5M	LG14
15.34 A	Cod	mab3831 5M	LG14
15.34 A	Cod	mab3751 5M	LG14
15.34 A	Cod	mab3741 5M	LG14

15.34 A	Cod	mab3732 5M	LG14
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15.34 A	Cod	mab5715 5M	LG14
15.34 A	D4	mab242015M	LG14
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15.34 A	D4	mab267445M	LG14
15.34 A	D4	mab201195M	LG14
15.34 A	D4	mab223145M	LG14
15.34 A	D4	mab271385M	LG14
15.34 A	D4	mab201435M	LG14
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15.34 A	D4	mab201395M	LG14
15.34 A	D4	mab240825M	LG14
15.34 A	D4	mab224735M	LG14
15.34 A	D4	mab225925M	LG14
15.34 A	D4	mab201535M	LG14
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18.28 B	Cod	mab5446 5M	LG14
18.28 B	Cod	mab1536 5M	LG14
18.28 B	Cod	mab3951 5M	LG14
18.28 B	Cod	mab5190 5M	LG14
18.28 B	Cod	mab1405 5M	LG14
18.28 B	Cod	mab1473 5M	LG14
18.28 B	Cod	mab5265 5M	LG14
18.28 B	Cod	mab4274 5M	LG14
18.28 B	Cod	mab4326 5M	LG14
18.28 B	Cod	mab4001 5M	LG14
18.28 B	Cod	mab3514 5M	LG14
18.28 S	Cod	mab2929 5M	LG14
18.5 B	Cod	mab4515 5M	LG14
18.5 B	Cod	mab3401 5M	LG14
18.5 B	Cod	mab5415 5M	LG14
18.5 S	Cod	mab5507 5M	LG14
18.5 A	D4	mab171965M	LG14
18.5 A	D5	mab120105M	LG14
18.5 A	Cod	mab5667 5M	LG14
18.5 A	Cod	mab4754 5M	LG14
18.5 A	D4	mab241675M	LG14
18.5 AB	D5	mab6935 5M	LG14
18.5 AB	D5	mab6045 5M	LG14
18.5 A	D5	mab150365M	LG14
18.5 A	Cod	mab122 5M	LG14
18.5 A	Cod	mab2108 5M	LG14
18.5 AB	Cod	mab125145M	LG14
18.5 AB	Cod	mab154965M	LG14
18.5 AB	Cod	mab124645M	LG14
18.5 AB	Cod	mab6518 5M	LG14

18.5 AB	Cod	mab8842 5M	LG14
18.5 AB	Cod	mab7749 5M	LG14
18.5 AB	Cod	mab8019 5M	LG14
18.5 A	Cod	mab1723 5M	LG14
18.5 A	Cod	mab3872 5M	LG14
19.63 B	Cod	mab2142 5M	LG14
19.63 S	Cod	mab4988 5M	LG14
19.63 A	D5	mab132315M	LG14
19.63 AB	Cod	mab157275M	LG14
19.63 A	Cod	mab3334 5M	LG14
19.63 A	D4	mab279845M	LG14
19.63 A	D4	mab225205M	LG14
19.63 A	Cod	mab4041 5M	LG14
21.65 B	D4	mab188605M	LG14
21.65 B	D4	mab201525M	LG14
21.65 B	D4	mab224485M	LG14
21.65 S	Cod	mab663 5M	LG14
21.65 A	D4	mab196365M	LG14
21.65 AB	D5	mab137805M	LG14
21.65 AB	D5	mab6519 5M	LG14
21.65 A	D5	mab152015M	LG14
21.65 A	Cod	mab4662 5M	LG14
21.65 A	D5	mab102895M	LG14
21.65 A	D4	mab182485M	LG14
21.65 A	D4	mab277915M	LG14
21.65 A	D4	mab183865M	LG14
21.65 A	D4	mab193445M	LG14
21.65 A	D5	mab100095M	LG14
21.65 A	D4	mab241325M	LG14
21.65 A	D4	mab224675M	LG14
23.9 B	D4	mab255175M	LG14
23.9 B	D5	mab7854 5M	LG14
23.9 B	D5	mab162485M	LG14
23.9 B	D5	mab103145M	LG14
23.9 B	Cod	mab4617 5M	LG14
23.9 S	Cod	mab4379 5M	LG14
24.12 S	Cod	mab590 5M	LG14
24.12 A	D5	mab149325M	LG14
24.12 A	Cod	mab4138 5M	LG14
24.12 A	Cod	mab2526 5M	LG14
24.12 A	Cod	mab2151 5M	LG14
24.12 A	Cod	mab5725 5M	LG14
24.12 AB	D5	mab161265M	LG14
24.12 A	D5	mab8185 5M	LG14
25.46 B	D5	mab156895M	LG14
25.46 B	D5	mab163775M	LG14
25.46 S	Cod	mab403 5M	LG14
25.46 A	D4	mab205675M	LG14

25.46 A	D4	mab184575M	LG14
25.46 A	Cod	mab1582 5M	LG14
25.46 A	D4	mab180305M	LG14
25.46 A	D4	mab278135M	LG14
26.13 B	D5	mab6520 5M	LG14
26.13 S	Cod	mab3002 5M	LG14
27.25 B	D4	mab224325M	LG14
27.25 B	D5	mab125535M	LG14
27.25 B	D4	mab185255M	LG14
27.25 S	Cod	mab3027 5M	LG14
27.25 A	D4	mab225655M	LG14
27.25 A	D4	mab224255M	LG14
27.25 A	D5	mab131125M	LG14
28.38 S	Cod	mab1989 5M	LG14
28.38 A	D4	mab223315M	LG14
28.38 A	D4	mab196295M	LG14
28.38 A	D4	mab178735M	LG14
28.38 A	D4	mab216105M	LG14
28.38 A	D4	mab279185M	LG14
28.38 A	D4	mab197115M	LG14
28.38 A	D4	mab203905M	LG14
28.38 A	D4	mab268485M	LG14
28.38 A	D4	mab207125M	LG14
28.38 A	D4	mab186855M	LG14
28.38 A	D4	mab190035M	LG14
28.38 A	D4	mab205975M	LG14
31.59 B	D4	mab268515M	LG14
31.59 B	D4	mab216325M	LG14
31.59 B	D4	mab269575M	LG14
31.59 S	Cod	mab3199 5M	LG14
31.81 S	Cod	mab2487 5M	LG14
31.81 A	D4	mab239825M	LG14
31.81 A	D4	mab277595M	LG14
31.81 A	D4	mab277625M	LG14
31.81 A	D4	mab240775M	LG14
31.81 A	D4	mab224395M	LG14
31.81 A	D4	mab223135M	LG14
31.81 A	D4	mab224115M	LG14
31.81 A	D4	mab222075M	LG14
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31.81 A	D4	mab206985M	LG14
31.81 A	D4	mab215965M	LG14
31.81 A	D4	mab215855M	LG14
31.81 A	D4	mab269075M	LG14
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31.81 A	D4	mab264735M	LG14
31.81 A	D4	mab192775M	LG14

31.81 A	D4	mab196325M	LG14
31.81 A	D4	mab240295M	LG14
31.81 A	D4	mab196675M	LG14
31.81 A	D4	mab206645M	LG14
31.81 A	D4	mab200355M	LG14
31.81 A	D4	mab223825M	LG14
31.81 AB	Cod	mab8438 5M	LG14
31.81 A	Cod	mab1518 5M	LG14
31.81 A	D4	mab240665M	LG14
31.81 A	D5	mab115405M	LG14
31.81 A	D5	mab6525 5M	LG14
31.81 A	Cod	mab5450 5M	LG14
31.81 A	D5	mab107465M	LG14
31.81 A	Cod	mab1505 5M	LG14
31.81 A	D5	mab8691 5M	LG14
31.81 A	D5	mab7137 5M	LG14
31.81 AB	Cod	mab161145M	LG14
31.81 A	Cod	mab1479 5M	LG14
31.81 A	Cod	mab5002 5M	LG14
31.81 A	D5	mab107635M	LG14
31.81 AB	D5	mab123545M	LG14
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31.81 AB	D5	mab140965M	LG14
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31.81 A	D5	mab141875M	LG14
31.81 A	D4	mab280295M	LG14
31.81 A	D5	mab160305M	LG14
31.81 A	Cod	mab2588 5M	LG14
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31.81 A	Cod	mab5495 5M	LG14
31.81 A	Cod	mab2116 5M	LG14
31.81 A	Cod	mab1942 5M	LG14
31.81 A	Cod	mab3370 5M	LG14
31.81 A	D5	mab120155M	LG14
36.14 B	Cod	mab4163 5M	LG14
36.14 S	Cod	mab4044 5M	LG14
36.14 A	Cod	mab3222 5M	LG14
36.14 A	D5	mab118725M	LG14
36.14 AB	Cod	mab426 5M	LG14
36.14 A	Cod	mab227 5M	LG14
36.14 AB	Cod	mab172005M	LG14
36.14 A	Cod	mab4671 5M	LG14
36.14 AB	D5	mab118485M	LG14

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36.14 AB	D5	mab146525M	LG14
36.14 AB	D5	mab119015M	LG14
36.14 A	D5	mab100265M	LG14
36.14 A	D4	mab215875M	LG14
36.14 A	Cod	mab2051 5M	LG14
36.14 A	Cod	mab2042 5M	LG14
36.14 AB	D5	mab164585M	LG14
36.14 AB	D5	mab7774 5M	LG14
36.14 AB	D5	mab7609 5M	LG14
36.14 AB	D5	mab153445M	LG14
36.14 AB	D5	mab102775M	LG14
36.14 AB	D5	mab101745M	LG14
36.14 A	D5	mab109375M	LG14
36.14 A	Cod	mab4030 5M	LG14
36.14 A	D4	mab215625M	LG14
36.14 A	D4	mab170845M	LG14
36.14 A	Cod	mab2990 5M	LG14
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36.14 A	D4	mab224845M	LG14
37.94 B	D4	mab193505M	LG14
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37.94 B	D4	mab175305M	LG14
37.94 B	D4	mab183515M	LG14
37.94 B	Cod	mab5311 5M	LG14
37.94 B	Cod	mab1368 5M	LG14
37.94 B	Cod	mab1368 5M	LG14
37.94 B	Cod	mab977 5M	LG14
37.94 B	Cod	mab4550 5M	LG14
37.94 S	Cod	mab699 5M	LG14
37.94 A	Cod	mab3212 5M	LG14
37.94 A	D4	mab197635M	LG14
37.94 A	D4	mab212555M	LG14
37.94 AB	D5	mab130645M	LG14
37.94 AB	D5	mab8713 5M	LG14
37.94 AB	D5	mab7409 5M	LG14
37.94 AB	D5	mab6988 5M	LG14
37.94 AB	D5	mab153115M	LG14
37.94 AB	D5	mab161455M	LG14
37.94 AB	D5	mab129305M	LG14

37.94 AB	D5	mab9768 5M	LG14
37.94 AB	D5	mab132635M	LG14
37.94 A	D5	mab6526 5M	LG14
37.94 A	Cod	mab4682 5M	LG14
37.94 AB	Cod	mab244195M	LG14
37.94 AB	Cod	mab216955M	LG14
37.94 A	Cod	mab4995 5M	LG14
37.94 A	D4	mab204425M	LG14
37.94 A	Cod	mab3161 5M	LG14
37.94 AB	Cod	mab206445M	LG14
37.94 AB	Cod	mab131515M	LG14
37.94 A	Cod	mab4527 5M	LG14
37.94 A	Cod	mab3312 5M	LG14
37.94 A	D5	mab134235M	LG14
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37.94 A	D4	mab202875M	LG14
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37.94 AB	Cod	mab249635M	LG14
37.94 AB	Cod	mab228435M	LG14
37.94 AB	Cod	mab243095M	LG14
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65.86 A	D5	mab6543 5M	LG14
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68.12 AB	Cod	mab137195M	LG14
68.12 AB	Cod	mab7673 5M	LG14
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107.4 A	Cod	mab1233 5M	LG14
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119.83 A	D5	mab116055M	LG14
119.83 A	D5	mab9757 5M	LG14
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121.41 A	Cod	mab3867 5M	LG14
121.41 A	D5	mab6556 5M	LG14
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121.41 A	D4	mab178445M	LG14
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125.28 A	Cod	mab1007 5M	LG14
125.28 A	D4	mab251295M	LG14
125.28 A	D5	mab100245M	LG14
125.28 AB	Cod	mab195255M	LG14
125.28 AB	Cod	mab234255M	LG14
125.28 AB	Cod	mab263765M	LG14
125.28 A	Cod	mab3796 5M	LG14
125.28 A	D4	mab210025M	LG14
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127.53 S	Cod	mab2094 5M	LG14
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127.53 A	Cod	mab373 5M	LG14
127.53 A	Cod	mab1489 5M	LG14
132.1 B	Cod	mab630 5M	LG14
132.1 B	Cod	mab4820 5M	LG14
132.1 S	Cod	mab4579 5M	LG14
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132.32 B	D4	mab172165M	LG14
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132.32 B	Cod	mab244 5M	LG14
132.32 S	Cod	mab244 5M	LG14
132.32 A	Cod	mab2361 5M	LG14
132.32 A	D5	mab120695M	LG14
132.32 A	Cod	mab2357 5M	LG14
132.32 AB	D5	mab158185M	LG14
132.32 A	D5	mab9805 5M	LG14
134.34 S	Cod	mab3368 5M	LG14
134.34 A	D5	mab119505M	LG14
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Marker szekvencia

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TGCAGCAGCTCCCGCATGGCCGTCGCGTGTGAGTTGCACCACACGTTGTCGCGG
TGCAGCGCGGCGAGCGGAAGCCATGGCGCCG
TGCAGGACGTGTACACGGCGGAGGATCCCGCCATCGGCCGCGCGCCCCG

TGCAGCAACGCGCCGCGGCTGCCCCCGTCGCCGCGGGGCTGCCG
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TGCAGCCTCACGCCCATCAGCATCACGTCTGTAGCTGTCTGCACGGCAGCTTGGCATCTCGCT
TGCAGGTTGCAGCTTCGTGGGTGCAGACCG
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TGCAGCCGCACCATCTCCCCTCCGCGG
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TGCAGCAGCGTGGAGCCACCTGCCGCGGGTTCGCCG
TGCAGGGACTGTGCGCCGCGGGGACGGCGAGAGCGCCCTGCGTGCCAGTGCCCGCTCTCCATGGGG
TGCAGCCAGGTAATTACCCCTTGACGCTGGACATCAATCCGAGCTTTCCGACTGACCGATCGATCA
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TGCAGGGGACACATGCAGCAGCTCGCATGGACGCATGATCGACTTAAATCGCGTGGTCAGCATGCGTC
TGCAGTTTCAGGGATGTGAACATGGGAGGCGAGTCTCCATCGGCCATGCTGGGAGGAGGATTCAGGGGA
TGCAGCAGGCCAGTCCAGGAGTTGGCGCGG
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TGCAGCTCTTATACGATCGCAGCCGCACCGCTACCTGTCCGCGGACGTGCGCCGACGACGCCCTCGCC
TGCAGCAGTCGGCGTGTGCACCTTATCACGTCGCGCGCCGACGCGGACGAGACCACCGCTCG
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TGCAGACTGGAGGAGCCGCTGCTGCGGGGGCCG
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TGCAGCACTTTGCCAGGATGGCTGAAGTTCCTCGGCTGACCTGATCCCG
TGCAGATTTTGTGAAAGCACCCG
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TGCAGGCAACGTACAAGACCGTCCCCTGAGCGGTTCCGCTGCGTCTAGCGCTAGGTTGACTTGTCCGA
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TGCAGGAAGATGATCATTTTATAGAGCACATCAGCCG
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LG3

cM		Marker	Kr.	Kapcsoltsági csoport (LG)
	0 S	Cod	mab2149 5U	LG3
	0 A	D5	mab107555U	LG3
	0 A	D5	mab110685U	LG3
	0 A	D5	mab8607 5U	LG3
	0 A	D5	mab9012 5U	LG3
	0 AB	D5	mab136965U	LG3
	0 AB	D5	mab8522 5U	LG3
	0 A	D5	mab150325U	LG3
	0 A	D5	mab104985U	LG3
	2.25 S	Cod	mab511 5U	LG3
	2.25 A	D5	mab139095U	LG3
	2.25 AB	D5	mab122275U	LG3
	2.25 A	D5	mab116155U	LG3
	2.92 S	Cod	mab2563 5U	LG3
	2.92 A	D5	mab142955U	LG3
	2.92 A	D5	mab147235U	LG3
	2.92 A	D5	mab109415U	LG3
	2.92 AB	D5	mab145055U	LG3
	2.92 A	D5	mab110755U	LG3
	2.92 A	D5	mab9354 5U	LG3
	2.92 A	Cod	mab725 5U	LG3
	2.92 A	D5	mab122645U	LG3
	2.92 A	D4	mab254665U	LG3
	2.92 A	D5	mab162155U	LG3
	2.92 AB	D5	mab101675U	LG3
	2.92 AB	D5	mab7852 5U	LG3
	2.92 AB	D5	mab8191 5U	LG3
	2.92 AB	D5	mab163835U	LG3
	2.92 AB	D5	mab8593 5U	LG3
	2.92 AB	D5	mab116345U	LG3
	2.92 AB	D5	mab7635 5U	LG3
	2.92 AB	D5	mab148565U	LG3
	2.92 AB	D5	mab159725U	LG3
	2.92 A	D5	mab143565U	LG3
	2.92 A	D4	mab167715U	LG3
	4.94 B	D4	mab267055U	LG3
	4.94 B	Cod	mab446 5U	LG3
	4.94 S	Cod	mab2226 5U	LG3
	4.94 AB	Cod	mab2291 5U	LG3
	4.94 A	Cod	mab1254 5U	LG3
	4.94 A	Cod	mab1974 5U	LG3
	4.94 A	Cod	mab2111 5U	LG3
	4.94 A	Cod	mab1027 5U	LG3
	4.94 A	Cod	mab5293 5U	LG3

4.94 A	Cod	mab3021 5U	LG3
4.94 A	Cod	mab5758 5U	LG3
4.94 A	Cod	mab4642 5U	LG3
4.94 A	Cod	mab4694 5U	LG3
4.94 A	Cod	mab5755 5U	LG3
4.94 A	Cod	mab4524 5U	LG3
4.94 A	Cod	mab4356 5U	LG3
4.94 A	Cod	mab4167 5U	LG3
4.94 A	Cod	mab4070 5U	LG3
4.94 A	Cod	mab4065 5U	LG3
4.94 A	Cod	mab3335 5U	LG3
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4.94 AB	D5	mab147665U	LG3
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4.94 A	D5	mab6642 5U	LG3
4.94 A	D5	mab158905U	LG3
4.94 A	D5	mab131625U	LG3
4.94 A	D5	mab130545U	LG3
4.94 AB	D5	mab8549 5U	LG3
4.94 A	D5	mab123625U	LG3
4.94 A	D5	mab138245U	LG3
4.94 A	D5	mab104185U	LG3
4.94 AB	D5	mab6576 5U	LG3
4.94 A	D5	mab156795U	LG3
4.94 AB	D5	mab109295U	LG3
4.94 AB	D5	mab102075U	LG3
4.94 AB	D5	mab9490 5U	LG3
4.94 AB	D5	mab6436 5U	LG3
4.94 AB	D5	mab8175 5U	LG3
4.94 AB	D5	mab109455U	LG3
4.94 AB	D5	mab152485U	LG3
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4.94 AB	D5	mab154885U	LG3
4.94 AB	D5	mab9555 5U	LG3
4.94 AB	D5	mab142845U	LG3
4.94 AB	D5	mab6311 5U	LG3
4.94 AB	D5	mab7667 5U	LG3
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4.94 AB	D5	mab7708 5U	LG3
4.94 AB	D5	mab9782 5U	LG3
4.94 AB	D5	mab7111 5U	LG3
4.94 AB	D5	mab106715U	LG3
4.94 AB	D5	mab6992 5U	LG3
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4.94 AB	D5	mab110445U	LG3
4.94 AB	D5	mab110495U	LG3
4.94 AB	D5	mab134745U	LG3
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4.94 AB	D5	mab6966 5U	LG3
4.94 AB	D5	mab101615U	LG3
4.94 AB	D5	mab106385U	LG3
4.94 AB	D5	mab100425U	LG3
4.94 AB	D5	mab139275U	LG3
4.94 AB	D5	mab140155U	LG3
4.94 AB	D5	mab108285U	LG3
4.94 AB	D5	mab6354 5U	LG3
4.94 A	D5	mab147645U	LG3
4.94 A	D5	mab146785U	LG3
4.94 A	D5	mab136985U	LG3
4.94 A	D5	mab136725U	LG3
4.94 A	D5	mab130355U	LG3
4.94 AB	D5	mab8579 5U	LG3
4.94 AB	D5	mab122015U	LG3
4.94 AB	D5	mab135855U	LG3
4.94 A	D5	mab121355U	LG3
4.94 A	D5	mab139025U	LG3
4.94 A	D5	mab103855U	LG3
4.94 A	D5	mab122875U	LG3
4.94 A	D5	mab153875U	LG3
4.94 A	D4	mab181775U	LG3
6.96 B	Cod	mab1343 5U	LG3
6.96 B	Cod	mab2419 5U	LG3
6.96 B	Cod	mab1397 5U	LG3
6.96 B	Cod	mab1355 5U	LG3
6.96 B	Cod	mab4455 5U	LG3
6.96 S	Cod	mab3279 5U	LG3
6.96 A	Cod	mab1814 5U	LG3
6.96 A	D5	mab9775 5U	LG3
6.96 A	D4	mab257785U	LG3

6.96 A	D4	mab191735U	LG3
6.96 AB	D5	mab8219 5U	LG3
6.96 AB	D5	mab145415U	LG3
6.96 AB	D5	mab7241 5U	LG3
6.96 A	D5	mab140925U	LG3
6.96 A	D4	mab212075U	LG3
6.96 A	Cod	mab2155 5U	LG3
6.96 AB	D5	mab8368 5U	LG3
6.96 A	D5	mab9479 5U	LG3
6.96 A	D4	mab190545U	LG3
6.96 A	D4	mab178115U	LG3
8.08 B	Cod	mab3171 5U	LG3
8.08 S	Cod	mab697 5U	LG3
8.08 B	Cod	mab4225 5U	LG3
8.08 S	Cod	mab673 5U	LG3
8.08 A	D4	mab180145U	LG3
8.08 A	D4	mab228075U	LG3
8.08 A	Cod	mab5108 5U	LG3
8.08 A	Cod	mab4722 5U	LG3
8.08 A	D4	mab195775U	LG3
8.08 A	Cod	mab4185 5U	LG3
8.08 A	Cod	mab4237 5U	LG3
8.98 S	Cod	mab1952 5U	LG3
8.98 A	D4	mab185655U	LG3
10.33 S	Cod	mab5083 5U	LG3
11.23 S	Cod	mab4224 5U	LG3
11.23 A	D5	mab8280 5U	LG3
11.23 A	D4	mab178415U	LG3
11.23 A	Cod	mab5441 5U	LG3
14.86 S	Cod	mab1091 5U	LG3
14.86 A	D5	mab8297 5U	LG3
14.86 A	D5	mab163595U	LG3
14.86 A	Cod	mab1681 5U	LG3
14.86 A	D5	mab128645U	LG3
14.86 A	D5	mab8781 5U	LG3
14.86 AB	D5	mab9078 5U	LG3
14.86 AB	D5	mab161585U	LG3
14.86 AB	D5	mab135515U	LG3
14.86 AB	D5	mab137585U	LG3
14.86 AB	D5	mab108575U	LG3
14.86 AB	D5	mab124465U	LG3
14.86 AB	D5	mab108985U	LG3
14.86 AB	D5	mab110615U	LG3
14.86 AB	D5	mab8298 5U	LG3
14.86 AB	D5	mab6906 5U	LG3
14.86 A	D5	mab143985U	LG3
14.86 A	D5	mab9970 5U	LG3
14.86 A	D4	mab253475U	LG3

14.86 A	D4	mab202315U	LG3
14.86 A	D5	mab148245U	LG3
14.86 A	Cod	mab1510 5U	LG3
16.88 B	D4	mab199365U	LG3
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16.88 B	D4	mab178175U	LG3
16.88 B	Cod	mab4730 5U	LG3
16.88 S	Cod	mab1510 5U	LG3
17.32 S	Cod	mab920 5U	LG3
17.32 AB	D5	mab8433 5U	LG3
17.32 AB	D5	mab8228 5U	LG3
17.32 A	D5	mab139455U	LG3
17.32 A	Cod	mab1657 5U	LG3
17.99 B	Cod	mab1639 5U	LG3
17.99 S	Cod	mab911 5U	LG3
17.99 A	D4	mab281435U	LG3
17.99 A	D4	mab183945U	LG3
17.99 A	D4	mab258825U	LG3
17.99 AB	D5	mab131225U	LG3
17.99 AB	D5	mab8307 5U	LG3
17.99 A	D5	mab7073 5U	LG3
17.99 A	D4	mab278525U	LG3
18.43 S	Cod	mab582 5U	LG3
18.43 S	Cod	mab3373 5U	LG3
18.43 AB	Cod	mab6975 5U	LG3
18.43 AB	Cod	mab152115U	LG3
18.43 AB	Cod	mab120915U	LG3
18.43 A	Cod	mab3500 5U	LG3
18.43 AB	Cod	mab247185U	LG3
18.43 AB	Cod	mab193295U	LG3
18.43 A	Cod	mab807 5U	LG3
19.1 B	Cod	mab545 5U	LG3
19.1 S	Cod	mab542 5U	LG3
19.54 S	Cod	mab2256 5U	LG3
19.54 A	Cod	mab329 5U	LG3
23.4 S	Cod	mab4583 5U	LG3
23.4 A	D4	mab256075U	LG3
24.07 B	D4	mab195405U	LG3
24.07 B	D4	mab258105U	LG3
24.07 B	D4	mab172845U	LG3
24.07 S	Cod	mab2824 5U	LG3
24.07 A	D4	mab256655U	LG3
25.87 B	D4	mab202975U	LG3
25.87 B	D4	mab237835U	LG3
25.87 S	Cod	mab3879 5U	LG3
26.09 B	D4	mab212355U	LG3
26.09 S	Cod	mab3297 5U	LG3
26.53 B	D4	mab229365U	LG3

26.53 B	D4	mab219795U	LG3
26.53 B	D4	mab256705U	LG3
26.53 B	D4	mab259295U	LG3
26.53 B	D4	mab262385U	LG3
26.53 B	D4	mab258025U	LG3
26.53 S	Cod	mab794 5U	LG3
26.53 A	D4	mab244545U	LG3
26.53 A	D5	mab9373 5U	LG3
26.53 A	D4	mab233315U	LG3
26.53 A	D4	mab202765U	LG3
28.33 S	Cod	mab5138 5U	LG3
28.33 A	D4	mab244665U	LG3
28.33 A	D5	mab7052 5U	LG3
28.33 A	Cod	mab3151 5U	LG3
28.33 A	D5	mab6521 5U	LG3
28.33 A	Cod	mab1287 5U	LG3
28.33 A	Cod	mab387 5U	LG3
28.33 A	D5	mab120075U	LG3
33.84 S	Cod	mab234 5U	LG3
33.84 A	D4	mab172855U	LG3
33.84 AB	D5	mab157035U	LG3
33.84 A	D5	mab145445U	LG3
33.84 A	D4	mab227575U	LG3
33.84 A	D4	mab175275U	LG3
33.84 A	D4	mab252305U	LG3
33.84 A	D4	mab252295U	LG3
33.84 A	Cod	mab5608 5U	LG3
34.51 S	Cod	mab3241 5U	LG3
34.51 A	D4	mab238155U	LG3
36.53 S	Cod	mab1559 5U	LG3
36.53 A	D5	mab145155U	LG3
36.53 A	D5	mab143405U	LG3
36.53 A	D4	mab255395U	LG3
38.55 B	D5	mab151745U	LG3
38.55 S	Cod	mab5259 5U	LG3
38.55 A	D4	mab262405U	LG3
38.55 A	D4	mab266105U	LG3
38.55 A	D4	mab229515U	LG3
38.55 A	D4	mab188275U	LG3
38.55 A	D4	mab213245U	LG3
38.55 A	D5	mab142375U	LG3
38.55 A	D5	mab139645U	LG3
44.77 S	Cod	mab1358 5U	LG3
44.77 A	Cod	mab3354 5U	LG3
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44.77 A	D4	mab231585U	LG3
44.77 A	D4	mab188295U	LG3
47.25 S	Cod	mab224 5U	LG3

47.25 A	Cod	mab2395 5U	LG3
47.25 A	Cod	mab3579 5U	LG3
50.18 B	D4	mab208815U	LG3
50.18 S	Cod	mab1967 5U	LG3
50.18 AB	D5	mab140705U	LG3
50.18 AB	D5	mab101555U	LG3
50.18 A	D5	mab146375U	LG3
50.85 S	Cod	mab3629 5U	LG3
50.85 A	D5	mab8442 5U	LG3
50.85 AB	D5	mab141905U	LG3
50.85 A	D5	mab134505U	LG3
53.57 B	D4	mab276275U	LG3
53.57 S	Cod	mab223 5U	LG3
55.6 B	D4	mab228225U	LG3
55.6 B	D4	mab178055U	LG3
55.6 S	Cod	mab3029 5U	LG3
55.6 A	D5	mab6494 5U	LG3
55.6 A	D4	mab171995U	LG3
57.87 B	D4	mab192785U	LG3
57.87 S	Cod	mab482 5U	LG3
57.87 A	D4	mab172325U	LG3
58.54 S	Cod	mab5504 5U	LG3
60.79 S	Cod	mab4073 5U	LG3
60.79 A	D4	mab185675U	LG3
60.79 A	D4	mab280615U	LG3
60.79 A	D4	mab257685U	LG3
60.79 A	D4	mab219335U	LG3
60.79 AB	D5	mab143655U	LG3
60.79 A	D5	mab131325U	LG3
62.13 S	Cod	mab182 5U	LG3
62.13 A	D5	mab143545U	LG3
62.13 A	Cod	mab5103 5U	LG3
62.13 A	Cod	mab2524 5U	LG3
62.13 AB	D5	mab8461 5U	LG3
62.13 AB	D5	mab140235U	LG3
62.13 AB	D5	mab102995U	LG3
62.13 AB	D5	mab8458 5U	LG3
62.13 A	D5	mab9135 5U	LG3
62.13 A	D5	mab102295U	LG3
62.13 A	D4	mab259115U	LG3
62.13 A	D5	mab135195U	LG3
62.13 A	D5	mab117065U	LG3
62.13 A	D4	mab191035U	LG3
63.7 B	Cod	mab2239 5U	LG3
63.7 S	Cod	mab5236 5U	LG3
63.7 A	D4	mab224415U	LG3
63.7 AB	D5	mab104205U	LG3
63.7 AB	D5	mab143185U	LG3

63.7 A	D5	mab6330 5U	LG3
63.7 A	D5	mab125265U	LG3
63.7 A	D4	mab186475U	LG3
63.7 A	D4	mab189755U	LG3
63.7 A	Cod	mab1443 5U	LG3
63.7 A	D4	mab216155U	LG3
63.7 A	Cod	mab1336 5U	LG3
63.7 A	D4	mab277475U	LG3
63.7 A	D5	mab148255U	LG3
65.95 B	D4	mab202625U	LG3
65.95 B	D4	mab239565U	LG3
65.95 S	Cod	mab3856 5U	LG3
65.95 A	D4	mab259495U	LG3
65.95 A	D5	mab6497 5U	LG3
65.95 A	D4	mab240155U	LG3
65.95 A	D4	mab172045U	LG3
65.95 AB	D5	mab120985U	LG3
65.95 A	D5	mab9176 5U	LG3
65.95 A	D4	mab259285U	LG3
65.95 A	D5	mab7622 5U	LG3
65.95 A	D4	mab196875U	LG3
65.95 A	D4	mab206775U	LG3
65.95 A	D4	mab181905U	LG3
65.95 A	Cod	mab5147 5U	LG3
65.95 A	D4	mab176565U	LG3
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65.95 A	Cod	mab238 5U	LG3
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65.95 A	Cod	mab1656 5U	LG3
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75.4 A	D4	mab215285U	LG3

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Marker szekvencia

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TGCAGCCGAGGAACACCCACCTCGCCGCTTCCATCCCGAACGGACCCG
TGCAGCACAGGAGGACCTCGTCGCGGTTGCGGCCTACTTCCGACCG
TGCAGTACTGGCTTAGCTAGGTGCGGTGTGAGTTGCTGTGAGTACCAAGTCTTGCGCCGACGAGAC
TGCAGAGACCAACTCTAACAAATTTACGACCG
TGCAGTTGACCGCATAGCCAGACCGCCACTTTGATCTCCTCCAGGGTAAAGGCCTGTCAAGATCAT
TGCAGCAGCAGCCCGACCGTGTGAGGTAGGCGCCCGATGGCTGTACACGACGCCCTTGGGAGCCGAC
TGCAGCAGCAGCCCGACCGTACTGAGGTAAGCGCCCCG
TGCAGGAGTTCATCGACTCCAGGAAGCGCTAATTTGGGCCCGCGATGCTCGATCGATTCCCCCTGCC

LG9

cM		Marker	Kr.	Kapcsoltsági csoport (LG)	Marker szekvencia
0 S	Cod	mab4490	5U	LG9	TGCAGTGCAGAACCGTGA
0.67 S	Cod	mab1755	5U	LG9	TGCAGCGGATGGCTACTC
0.67 B	D5	mab7894	5U	LG9	TGCAGCGCTCGTTGTCCG
0.67 B	D5	mab108035U		LG9	TGCAGCCGCGACGGCGG
0.67 B	D5	mab8473	5U	LG9	TGCAGCACGCCGAGGCG
0.89 S	Cod	mab865	5U	LG9	TGCAGCAGCAGTTGGGTG
0.89 B	D4	mab278355U		LG9	TGCAGGCCGTGCGCTCGC
0.89 A	Cod	mab2363	5U	LG9	TGCAGCGCAGCGGGAGAL
0.89 A	D4	mab251225U		LG9	TGCAGCCTAGCCCCGACC
4.53 S	Cod	mab3010	5U	LG9	TGCAGTGTGTATTGCCA
4.53 B	D5	mab159895U		LG9	TGCAGGTGCTCGTCGGGA
4.53 B	D5	mab6550	5U	LG9	TGCAGCGCGGGGAAGCT
4.53 B	D5	mab143965U		LG9	TGCAGGGGCTTCTTCGAG
5.87 S	Cod	mab940	5U	LG9	TGCAGGGCGACGTGCCCA
5.87 B	D5	mab7705	5U	LG9	TGCAGAATTGGGTAGATA
5.87 B	D4	mab257375U		LG9	TGCAGAACC CGCGCAGC
7.94 S	Cod	mab4413	5U	LG9	TGCAGGCCGCGTGAGGC
7.94 A	Cod	mab3030	5U	LG9	TGCAGCCAGTGTAAAGAGC
7.94 A	Cod	mab1104	5U	LG9	TGCAGTTGTTGCCAAGAC
7.94 A	D5	mab6553	5U	LG9	TGCAGTTCCTTGACAGCG
7.94 A	D5	mab8899	5U	LG9	TGCAGACCTGTGGTAGTA
7.94 AB	D5	mab130075U		LG9	TGCAGTTGCTGCTTTGCT
7.94 A	D5	mab9174	5U	LG9	TGCAGTCGCTGGGCCAGC
7.94 A	D5	mab9532	5U	LG9	TGCAGGGCCGCGCGCGC
7.94 A	D5	mab146945U		LG9	TGCAGCTGTCAGCTGCCA
11.65 S	Cod	mab432	5U	LG9	TGCAGTGCATTGTGAGCG
11.65 B	D4	mab184735U		LG9	TGCAGGCATGGAAGCACC
11.65 A	D4	mab248805U		LG9	TGCAGCATCCAAGCGTT
11.65 A	D4	mab200385U		LG9	TGCAGAAGAAATAATGTCC
11.65 A	D4	mab276215U		LG9	TGCAGCGAGCAGCACCGT
11.65 A	Cod	mab4144	5U	LG9	TGCAGCCGCGAGACCCGA
11.65 A	Cod	mab3880	5U	LG9	TGCAGATTGAGAAGCACG
11.65 A	D4	mab278725U		LG9	TGCAGGACGAAGGTGATC
13 S	Cod	mab4181	5U	LG9	TGCAGCATGATCAAGAAG
13 A	D4	mab177925U		LG9	TGCAGTGGCTGGCCGAGA
13 A	D4	mab177525U		LG9	TGCAGTTAATATGGCAGAC
14.8 S	Cod	mab4667	5U	LG9	TGCAGGAAGCAGCAAGTC
14.8 A	D5	mab115915U		LG9	TGCAGGTTGTTTGATGAG
14.8 A	D4	mab219525U		LG9	TGCAGCGGAGAAGCTCAC
14.8 A	D5	mab114965U		LG9	TGCAGAAGAGAAAAGAAGT
14.8 A	D4	mab242335U		LG9	TGCAGAACTGCTGCTGCT
19.37 S	Cod	mab3952	5U	LG9	TGCAGACGGGCGTCCCGC
21.17 S	Cod	mab2098	5U	LG9	TGCAGAGACAAAAACGA
21.17 A	D4	mab209245U		LG9	TGCAGTCGGCCCTGCTCG

21.17 A	Cod	mab355 5U	LG9	TGCAGGCAGCCGCGCTG
21.17 A	D4	mab208435U	LG9	TGCAGTGCGCGGGGCA
21.17 A	D4	mab176055U	LG9	TGCAGACGAGCCGAACCC
21.17 A	D4	mab229155U	LG9	TGCAGTCTGGTCATGACG
21.17 A	D4	mab261275U	LG9	TGCAGGTTGCCGCTTTGG
21.17 A	Cod	mab1623 5U	LG9	TGCAGGTAGGACCATATG
21.17 A	D4	mab257755U	LG9	TGCAGCCACCAACCACCT
21.17 A	D4	mab245025U	LG9	TGCAGCTGCTCGTGCTCC
21.17 A	D4	mab245105U	LG9	TGCAGCTCGTGCCAGGT
21.17 A	Cod	mab1831 5U	LG9	TGCAGATTCACCTGTGTGA
21.17 AB	Cod	mab121915U	LG9	TGCAGGTTGGCGCGGGC
21.17 AB	Cod	mab107355U	LG9	TGCAGGAGAGAAGGAAG
21.17 AB	Cod	mab9928 5U	LG9	TGCAGAGGTCACAATGGC
21.17 A	D4	mab167515U	LG9	TGCAGATAGCTTTGCACTC
21.17 A	D4	mab261675U	LG9	TGCAGCAGCGGGTTGTGC
21.17 A	D4	mab179415U	LG9	TGCAGTCCACTGGGAAGC
23.45 S	Cod	mab2621 5U	LG9	TGCAGCCGTCGCCACGGC
24.81 S	Cod	mab4253 5U	LG9	TGCAGTGCTCTGCACCCG
24.81 A	D4	mab207845U	LG9	TGCAGTTAATCACGATTAG
24.81 A	D5	mab6555 5U	LG9	TGCAGGCACCTCGTGGCT
24.81 A	D5	mab8517 5U	LG9	TGCAGCGGCTTCCTTGCC
24.81 A	D5	mab123095U	LG9	TGCAGCGGGTGCGGGG
28.95 S	Cod	mab5438 5U	LG9	TGCAGCCTCGGGTCGGCC
28.95 A	D5	mab138785U	LG9	TGCAGCCCTGGTTGGGGA
30.75 S	Cod	mab3687 5U	LG9	TGCAGGATCCTCCTCCGC
30.75 A	D5	mab102225U	LG9	TGCAGTTTTCGTGGTAGGT
33.23 S	Cod	mab494 5U	LG9	TGCAGGATCTTCAGGAGG
33.23 B	D5	mab7362 5U	LG9	TGCAGGCACGAGCTCCCG
33.23 A	D5	mab164365U	LG9	TGCAGCGCACCTCGCCCG
33.23 A	D5	mab162675U	LG9	TGCAGCTGGGTACTGTTC
33.23 A	D5	mab140305U	LG9	TGCAGTTGATGGGGTTCC
36.18 S	Cod	mab1508 5U	LG9	TGCAGCGTGAGTAATATAA
36.18 A	Cod	mab4020 5U	LG9	TGCAGAAGACGATGGCCA
36.18 A	D4	mab277265U	LG9	TGCAGGACGGCGACAAGC
36.18 A	D5	mab121595U	LG9	TGCAGTCATTGTTGCAAGT
36.18 A	D4	mab261975U	LG9	TGCAGAGCCTTGAGCTTG
36.18 A	D4	mab260185U	LG9	TGCAGAAGCTACTGACCG
36.18 A	D4	mab256775U	LG9	TGCAGGGGAAGTGACTCC
36.18 A	Cod	mab2425 5U	LG9	TGCAGGCTGGCGGAGGT
36.18 AB	Cod	mab256835U	LG9	TGCAGCACTCCGAGGTAT
36.18 A	D5	mab159445U	LG9	TGCAGTAGGCGCTTTTGA
40.76 S	Cod	mab4370 5U	LG9	TGCAGTGGCGCCGTCACA
40.76 B	D4	mab191255U	LG9	TGCAGCGAAGCAACAATT
40.76 A	D5	mab6290 5U	LG9	TGCAGGGTACCAGGGCC
40.76 A	D5	mab142505U	LG9	TGCAGTAGACGGTGACGA
40.76 A	D5	mab150535U	LG9	TGCAGCCAGCACCAACAA
40.76 A	D5	mab157585U	LG9	TGCAGAGATGGATGGTAA
40.76 AB	D5	mab163095U	LG9	TGCAGCTCGTGATCACATT

40.76 A	D4	mab231785U	LG9	TGCAGCGCTACGGGTTGC
40.76 A	D4	mab172555U	LG9	TGCAGGCAGCCCTTCGCT
40.76 A	D5	mab121745U	LG9	TGCAGTAGCGATGCACGC
40.76 AB	D5	mab117365U	LG9	TGCAGCCCAGCACTGCAC
40.76 A	D4	mab218505U	LG9	TGCAGCGTTAATTTACTCT
40.76 A	D4	mab204635U	LG9	TGCAGCTAGTGGACGGGG
40.76 A	D5	mab149045U	LG9	TGCAGCGCCCTCTCTACA
40.76 AB	D5	mab6116 5U	LG9	TGCAGAGCGGGCAGGTG
40.76 AB	D5	mab161005U	LG9	TGCAGGCGGTGCCTCATC
40.76 A	Cod	mab677 5U	LG9	TGCAGGTTCCCGATCGAG
40.76 AB	Cod	mab8352 5U	LG9	TGCAGTGAACGCGGCGAC
40.76 A	D4	mab263235U	LG9	TGCAGCACTCCGCCAGT
40.76 A	D4	mab258895U	LG9	TGCAGCACCAGGCCGTGC
40.76 A	Cod	mab5361 5U	LG9	TGCAGGCCCGTCCCAGG
40.76 A	D4	mab248955U	LG9	TGCAGGATCAGTGGCGCA
40.76 A	Cod	mab1626 5U	LG9	TGCAGGTGGCGACGACG
47.49 S	Cod	mab5698 5U	LG9	TGCAGCCCAACAGCAGCA
50.2 S	Cod	mab660 5U	LG9	TGCAGGCCGCGCCGCA
50.2 A	D5	mab138165U	LG9	TGCAGCTTCTCTCGAGGA
50.2 AB	D5	mab9423 5U	LG9	TGCAGTAGGCGCTGGGTT
50.2 A	Cod	mab2326 5U	LG9	TGCAGGAGCTGACCATGA
54.78 S	Cod	mab2440 5U	LG9	TGCAGAAATGGCACAAGA
54.78 B	D4	mab203415U	LG9	TGCAGGGAGGCAAGTGCA
54.78 B	D4	mab177445U	LG9	TGCAGTTAGCACATGCCA
54.78 B	D4	mab252595U	LG9	TGCAGTCAGCCATGGCCA
54.78 A	D4	mab181445U	LG9	TGCAGGTCTCACCTCCG
56.12 S	Cod	mab1749 5U	LG9	TGCAGCGCTCTCGGCGGT
56.34 S	Cod	mab1411 5U	LG9	TGCAGCGACAGCATGCTG
56.34 B	D4	mab182175U	LG9	TGCAGGGGTACGAGACGA
56.34 B	D4	mab178515U	LG9	TGCAGTGCAAGGTGGGCA
56.34 A	D4	mab214685U	LG9	TGCAGGCACAAAACCTGC
56.34 A	D4	mab273605U	LG9	TGCAGCGACACCTGCCG
56.34 A	D4	mab251095U	LG9	TGCAGCTTCCGTATCCGCT
56.34 A	Cod	mab4729 5U	LG9	TGCAGCAAAACAACCAAT
62.09 S	Cod	mab3474 5U	LG9	TGCAGAAACCCCGATGC
62.76 S	Cod	mab891 5U	LG9	TGCAGTACAATATATCTCG
66.4 S	Cod	mab2997 5U	LG9	TGCAGACAAATTGTGCGT
66.4 A	D4	mab263075U	LG9	TGCAGCTGCGGGGCTCCA
66.4 A	D4	mab261525U	LG9	TGCAGCGGCTCCGCCG
66.4 A	D4	mab259595U	LG9	TGCAGCGGCTTCGGAGAA
66.4 A	Cod	mab851 5U	LG9	TGCAGTATGGGTGATGGG
66.4 A	D5	mab6090 5U	LG9	TGCAGTCACACCGCTGAA
83.66 S	Cod	mab4056 5U	LG9	TGCAGCCCAACGTGTGC
83.66 A	D4	mab203885U	LG9	TGCAGGATCATCACTCACT
83.66 A	D4	mab258395U	LG9	TGCAGCAGGGACTTGGTG
83.66 A	D4	mab216845U	LG9	TGCAGCTGTAGCGGCAGA
85.69 S	Cod	mab2246 5U	LG9	TGCAGGGACAGGCGCGT
85.69 A	D4	mab202515U	LG9	TGCAGTGATCCGAAACTG

86.81 S	Cod	mab4126 5U	LG9	TGCAGAACAACTCTCTCCTT
86.81 A	D5	mab6510 5U	LG9	TGCAGATTATAGTCAAGCG
86.81 AB	D5	mab9234 5U	LG9	TGCAGCACAAACACTGA
86.81 AB	D5	mab158615U	LG9	TGCAGTGCAGGAGGCCG
86.81 A	D4	mab243055U	LG9	TGCAGTTCTACTTCCAGC
86.81 A	D5	mab147695U	LG9	TGCAGCTCCTTGGTCCCC
87.93 S	Cod	mab1928 5U	LG9	TGCAGCAGGTCCAGCAGC
87.93 B	Cod	mab1041 5U	LG9	TGCAGCGCCACACGGCG
87.93 B	D4	mab275825U	LG9	TGCAGAACCTGCTCGTGG
87.93 B	D4	mab254755U	LG9	TGCAGTGGATTCTCTTGC
87.93 A	D4	mab207985U	LG9	TGCAGTGTCCGGCTCAAT
89.05 S	Cod	mab3737 5U	LG9	TGCAGCGCGCGCACACAC
89.05 B	D5	mab8047 5U	LG9	TGCAGGACAGCTTTGTGG
89.05 B	D5	mab143325U	LG9	TGCAGGTCTGGACGCAG
89.05 A	D4	mab257625U	LG9	TGCAGCACACTCGCCAC
89.05 A	D4	mab235135U	LG9	TGCAGTCTCCCAAAGACG
90.62 S	Cod	mab243 5U	LG9	TGCAGGAGGTACTCCACG
90.62 B	D4	mab278825U	LG9	TGCAGGCTGTGGCGCGAC
90.62 B	D4	mab256545U	LG9	TGCAGGATCTCCCAACTG
90.62 B	D4	mab248655U	LG9	TGCAGGGTTGACTCGGCC
90.62 A	D5	mab144705U	LG9	TGCAGGCTCGCCATCTCC
90.62 A	Cod	mab3739 5U	LG9	TGCAGCGACATGTCGTGC
90.62 AB	Cod	mab172905U	LG9	TGCAGGAGCTCGCCCTCT
94.5 S	Cod	mab1422 5U	LG9	TGCAGGCGTACTACGGGG
95.17 S	Cod	mab5019-15U	LG9	TGCAGGTGCGCCCTCACTG
95.17 B	D5	mab7851 5U	LG9	TGCAGCTCCAGATCAGAG
95.17 A	D4	mab263855U	LG9	TGCAGGGCCTCGTCCCGT
95.17 A	D4	mab262115U	LG9	TGCAGATCCACCCACGCC
95.17 A	Cod	mab5480 5U	LG9	TGCAGCTTAATAAGATCAA
95.17 A	Cod	mab2410 5U	LG9	TGCAGCAAGTGCCAGAGC
95.17 A	D4	mab263105U	LG9	TGCAGAGCACGGCGTCGT
95.17 A	Cod	mab1230 5U	LG9	TGCAGGTTGACACAGGC
95.17 A	Cod	mab5019-15U	LG9	TGCAGGTGCGCCCTCACTG
95.17 A	D4	mab261565U	LG9	TGCAGCAGCAACTCCAT
95.17 A	Cod	mab1890 5U	LG9	TGCAGGTGACGCGAGG
95.17 A	D4	mab216715U	LG9	TGCAGCTTAAGCTAATCTG
95.17 A	Cod	mab703 5U	LG9	TGCAGGATAGACGCAGGC
95.17 AB	Cod	mab509 5U	LG9	TGCAGGATGGACGCAAGC
95.17 AB	Cod	mab178605U	LG9	TGCAGTGAGGTTGGCCGT
95.17 AB	Cod	mab249525U	LG9	TGCAGATCCCCGCGACC
95.17 AB	Cod	mab227315U	LG9	TGCAGAAGCTGCCCAAGC
95.17 AB	Cod	mab177335U	LG9	TGCAGTCCCAACGTGCT
95.17 AB	Cod	mab199155U	LG9	TGCAGACGGTGGGCGACT
98.58 S	Cod	mab3226 5U	LG9	TGCAGCAGTGGCCACTAT
98.58 A	D4	mab183095U	LG9	TGCAGGGACGCCACGCTC
98.58 A	D4	mab230375U	LG9	TGCAGGCAAGGTTAGGGT
98.58 A	D4	mab244225U	LG9	TGCAGGGACGGTGCCTC
98.58 A	Cod	mab3477 5U	LG9	TGCAGCTCTGCCTGCACA

98.58 AB	Cod	mab236605U	LG9	TGCAGGGACACTCAGGAG
98.58 AB	Cod	mab178625U	LG9	TGCAGTGACTTTGTGGATA
98.58 A	D4	mab229045U	LG9	TGCAGCTTCGGCCTTTGTA
98.58 A	D4	mab194835U	LG9	TGCAGCAGCTGGGATCAT
104.68 S	Cod	mab5220 5U	LG9	TGCAGCAGAGCCGTCCAC
104.68 A	D5	mab158205U	LG9	TGCAGTGTAATCATTTTAA
104.68 A	D4	mab279435U	LG9	TGCAGGCTGAAATGGGTG
104.68 A	D5	mab148295U	LG9	TGCAGCGTCGGGGTTAGA
104.68 AB	D5	mab9278 5U	LG9	TGCAGTGGAGTACTCTACT
104.68 A	D5	mab145735U	LG9	TGCAGGCAACAGCAAACA
108.14 S	Cod	mab5615 5U	LG9	TGCAGATATTTGGTTTCTT
108.14 A	D4	mab265795U	LG9	TGCAGCAATGCATGGATG
109.26 S	Cod	mab5315 5U	LG9	TGCAGCTGGAGGAATTCG
109.26 A	Cod	mab3844 5U	LG9	TGCAGAACCAAACGGCGC
109.93 S	Cod	mab923 5U	LG9	TGCAGTTGACCTGATGAA
109.93 A	D4	mab275005U	LG9	TGCAGGAGCTCGTCCCCA
109.93 A	Cod	mab362 5U	LG9	TGCAGGTCGTGAGAGCTT
109.93 A	D5	mab149815U	LG9	TGCAGCCGCTGCTGGTGC
109.93 A	D4	mab211705U	LG9	TGCAGGTATAGAAAGGGA
109.93 A	D4	mab174435U	LG9	TGCAGCCCTGCGACCCGT
109.93 A	Cod	mab4614 5U	LG9	TGCAGAGGCGCGTCTCCG
109.93 A	Cod	mab3353 5U	LG9	TGCAGCCCTGCTGCGAC
109.93 A	D5	mab6996 5U	LG9	TGCAGGACGTGTTCTCA
109.93 AB	D5	mab156845U	LG9	TGCAGCGGCGCGGTGGT
114.02 S	Cod	mab1113 5U	LG9	TGCAGGTTGCAGCACTAG
114.02 A	D4	mab258475U	LG9	TGCAGGTAGGCCTGCATG
114.02 A	D4	mab280775U	LG9	TGCAGATAGTCGCCGTGT
114.02 A	D5	mab150805U	LG9	TGCAGCATGGGGGCTTTG
114.02 A	D4	mab261435U	LG9	TGCAGAGGGCGGTGATCC
117.72 S	Cod	mab1467 5U	LG9	TGCAGCAGCTCCCGCAGC
117.72 B	D5	mab111565U	LG9	TGCAGCTTAGATGGTAGG
117.72 B	D5	mab126485U	LG9	TGCAGCCGCATCTACTTCT
117.72 A	D4	mab237875U	LG9	TGCAGCTTCATCAGTTGCC
117.72 A	D5	mab126655U	LG9	TGCAGCCCGGCCGCCCG
123.33 S	Cod	mab2981 5U	LG9	TGCAGAAGTTCAAGAAGG
123.33 B	D4	mab171695U	LG9	TGCAGGTCTAAAAGAACT
123.33 B	D4	mab180755U	LG9	TGCAGGTGTAGCCGAGGA
123.33 A	Cod	mab1323 5U	LG9	TGCAGTCTGCCTTCGTCTC
123.33 AB	Cod	mab107735U	LG9	TGCAGGGTCTGTGGAATTC
124.69 S	Cod	mab2224 5U	LG9	TGCAGGACCGAGGGCTTC
124.69 B	D5	mab111485U	LG9	TGCAGCTTCTACCGCTGC
124.69 B	D5	mab146895U	LG9	TGCAGCTGTGCTCCATCTC
124.69 A	D4	mab195595U	LG9	TGCAGCACGGTCACGGGA
124.69 A	D4	mab279305U	LG9	TGCAGCGTGAGGTACTION
126.28 S	Cod	mab540 5U	LG9	TGCAGCGAGCTCTGGACC
126.28 A	D5	mab7120 5U	LG9	TGCAGCAGGTTCTTCTTCG
127.4 S	Cod	mab5188 5U	LG9	TGCAGGAGCCAGCAGGCC
127.4 A	Cod	mab4378 5U	LG9	TGCAGGAACGGAGTGCGA

127.4 A	D4	mab251925U	LG9	TGCAGAGGATGGGGAAAC
130.57 S	Cod	mab1688 5U	LG9	TGCAGGGTCTTGGGGTCG
130.57 B	D4	mab213695U	LG9	TGCAGGCGCGGGGCGGC
130.57 B	D4	mab198065U	LG9	TGCAGAGGCGAAACCACT
130.57 B	D4	mab189885U	LG9	TGCAGCGGCCACGACATT
130.57 A	D4	mab211835U	LG9	TGCAGGTAAGCAGCCAGC
130.57 A	D4	mab227645U	LG9	TGCAGAACAGAGCAGAGC
130.57 A	D4	mab249785U	LG9	TGCAGGAGCTGAGGCTCA
130.57 A	D4	mab237385U	LG9	TGCAGGAGATATGTCTGCT
130.57 A	Cod	mab1923 5U	LG9	TGCAGGTGAAGTTGGTCG
130.57 A	D4	mab253665U	LG9	TGCAGGAAAGCAACTCCT
134.49 S	Cod	mab5576 5U	LG9	TGCAGTGAAGTGAATACG
134.49 A	Cod	mab519 5U	LG9	TGCAGGACGTGTACGGGC
134.49 A	D5	mab111605U	LG9	TGCAGCTGGTGATCACCT
134.49 A	D5	mab9582 5U	LG9	TGCAGTCCCTGTGGGGC
137.47 S	Cod	mab489 5U	LG9	TGCAGCGACGAAGGCGC
137.47 B	Cod	mab5155 5U	LG9	TGCAGGCCGTGCTCGCGC
137.47 B	D4	mab270495U	LG9	TGCAGATTCATGACCTATT
137.47 B	D5	mab8070 5U	LG9	TGCAGCAGGAGAAGCCCT
137.47 B	D5	mab7545 5U	LG9	TGCAGTGTAGTTGTACATT
138.59 S	Cod	mab5041 5U	LG9	TGCAGGGAGGGGACGAC

.CGCGGTGCGGTTCCCTTTATGTGGCCG
GCCGTCTTCTGGGGCTCATCCCCGTCTTCTGGGGCTCTCCAGTCTTC
TGGGGAAATCTCGTCTCAGCCACCGCGCTTGCTGCACCG
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;GAACTGGAAGCAGTGCCGCTGATGCTGCCTCGGCGAGCGTACGGCCAGC
;AGCCGTAATTGTAATCGTCCCTCGGCGTACGCGAGGAGCGGAAAGTCC
AAGATGAGTGATTTCTTGTGCGAGCCCTGGTGGCCTGCCTTGTAGCCATG
;AGCAGCAATCGCTTGCCG
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.AAGGGCTACGGCGCACGGCAGCGGGAGCTGGAGGTTGCTGGCTCCGAG
GGAGCAGCTTCTGATCCTGAACAACGAGCTCTCGGGCTCGATTCCGAGGAG
CTTCTCAGTGTGGCCATGACTTATTTGCCG
;AGGACTTCAAGAGCGGCATGCCTTTCTGCGCCG
;TTGAAAGCGCTTCCCCACGGTGTACCCCGATGTTCAAACCAATGTGG
CTGAGCTTGAACATCCG
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TAGCACTTCTAATTCTTTTTCTTTCTGCTGCCAACTCATGGCAGAG
CACCACGGAAGCGGAAGCGCAGGCCAGCGCACCCCGCCG
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GCCAGTTC AACCTACGTACGTACTATATGTGCGTACGTGTGTTAGCGTTAAT

LG2

cM		Marker	Kr.	Kapcsoltsági csoport (LG)	Marker szekvencia
0 S	Cod	mab5678	6M	LG2	TGCAGGCCTCCAAGCAC
0 A	D5	mab6591	6M	LG2	TGCAGGTCATGTACAAA
2.27 S	Cod	mab1015	6M	LG2	TGCAGAACGGGGAGTTC
2.27 A	D5	mab124516M		LG2	TGCAGATGGAGATGGG
2.27 AB	D5	mab152756M		LG2	TGCAGGCTTGTTCTCTA
2.27 A	D4	mab271896M		LG2	TGCAGAACGAGGAGTTC
2.27 A	D4	mab241886M		LG2	TGCAGACGACACCACAA
2.27 A	D4	mab241436M		LG2	TGCAGCAGCCATCTTCTA
2.27 A	D4	mab240876M		LG2	TGCAGCGGTGGTGTCCA
2.27 A	D4	mab240846M		LG2	TGCAGCGTGTGAGATT
2.27 A	D4	mab240316M		LG2	TGCAGGCGGAGGGCGC
2.27 A	D4	mab173046M		LG2	TGCAGCTTACACCAAC
2.27 A	D4	mab242006M		LG2	TGCAGAACATGGTCGAC
2.27 A	D4	mab196636M		LG2	TGCAGCGTGCTGATGAA
2.27 A	D4	mab181626M		LG2	TGCAGCTCCAAACTTTC
2.27 A	D4	mab223396M		LG2	TGCAGTGAGCACAAATCG
2.27 A	D4	mab194536M		LG2	TGCAGGGCAGCCGCTTC
2.27 A	D4	mab173546M		LG2	TGCAGCTACGCACATGC
4.06 S	Cod	mab1208	6M	LG2	TGCAGCAGTGAGTAGAA
4.06 A	D5	mab155176M		LG2	TGCAGTAGTCGATCACG
5.4 S	Cod	mab752	6M	LG2	TGCAGACTGTGGGCCAA
5.4 B	D4	mab201656M		LG2	TGCAGCGCAAAGCAATA
5.4 B	D4	mab241266M		LG2	TGCAGCCACATGAAAAA
5.4 A	D4	mab225096M		LG2	TGCAGCCGCAGCCGCC
5.4 A	Cod	mab4966	6M	LG2	TGCAGTAGCAGAGAAAA
5.4 A	Cod	mab292	6M	LG2	TGCAGGGCCGCCATGCC
5.4 A	Cod	mab2555	6M	LG2	TGCAGTAGCAGAGAAAA
6.74 S	Cod	mab5604	6M	LG2	TGCAGGAGAGATTTTAG
6.74 B	D5	mab6589	6M	LG2	TGCAGCCGCAGCCGCC
6.74 A	D4	mab225786M		LG2	TGCAGAGCGCGAGATGA
6.74 A	D4	mab265116M		LG2	TGCAGGGATGGCTGACC
6.74 A	D5	mab101396M		LG2	TGCAGCGTGACTGGTCC
6.74 A	D5	mab133736M		LG2	TGCAGCTTGCTGCCATA
6.74 A	D5	mab9943	6M	LG2	TGCAGGGCGAGAGCGA
12.01 S	Cod	mab3045	6M	LG2	TGCAGCGCTTGCCTAAA
12.01 B	D4	mab174036M		LG2	TGCAGATCCGTCGTCTC
12.01 A	D4	mab173626M		LG2	TGCAGATCCACCGTCTC
12.01 A	D4	mab215756M		LG2	TGCAGGAGTGCGGGCTA
12.01 A	D5	mab7454	6M	LG2	TGCAGCGGAATCTGTGT
12.01 AB	D5	mab126216M		LG2	TGCAGAAATCTTTGTGA
12.01 A	D5	mab135596M		LG2	TGCAGCGACAGCCACGA
12.01 AB	D5	mab7229	6M	LG2	TGCAGTACTACCTGCCA
12.01 AB	D5	mab107566M		LG2	TGCAGGAGTGCATGCGC
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12.01 AB	D5	mab159006M	LG2	TGCAGCAACCCGACATT
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12.01 A	D4	mab174026M	LG2	TGCAGCGCTTGCCTAAA
12.01 A	D4	mab174046M	LG2	TGCAGATCCGTCTCTCC
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12.01 A	D5	mab115696M	LG2	TGCAGTCTTGATCTTTGA
12.01 A	D4	mab207016M	LG2	TGCAGAGGCTCTACTTG
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12.01 A	D4	mab241816M	LG2	TGCAGAGCACACTTGAA
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12.01 A	D4	mab241916M	LG2	TGCAGACATTGATGAGT
13.8 S	Cod	mab5008 6M	LG2	TGCAGCCTACCTACATG
13.8 B	D5	mab9756 6M	LG2	TGCAGTTCGCCCAACCG
13.8 A	D4	mab166476M	LG2	TGCAGCACGTTCAACTG
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13.8 AB	D5	mab106706M	LG2	TGCAGGTGGTGAAGGG
13.8 A	D4	mab271336M	LG2	TGCAGTACTACCTGCCT
13.8 A	D4	mab190676M	LG2	TGCAGATCCATCGTCTC
13.8 A	D4	mab226586M	LG2	TGCAGTTCGCCCAACCG
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14.47 A	D5	mab118406M	LG2	TGCAGGCCGTGCGGGAG
14.47 A	D4	mab205936M	LG2	TGCAGGGAGGCAACTTA
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14.47 A	D4	mab174056M	LG2	TGCAGCTTGAAACAAT
14.47 A	D5	mab6593 6M	LG2	TGCAGGCCCGCTCTGTG
14.47 A	D4	mab225616M	LG2	TGCAGATGGGCTGCGAC
23.67 S	Cod	mab279 6M	LG2	TGCAGACCTGGAGGGA
23.67 A	D5	mab6592 6M	LG2	TGCAGGGATGAACTTGA
23.67 A	D5	mab7478 6M	LG2	TGCAGACCTGGAGGGA
23.67 A	D5	mab153686M	LG2	TGCAGAAGACGAGTCC
28 S	Cod	mab3475 6M	LG2	TGCAGAGCTTGGAGCTT
28 B	D4	mab273686M	LG2	TGCAGGTGCTGGCCAG
28 B	D4	mab207116M	LG2	TGCAGACGGAAACAAA
28 A	D4	mab223696M	LG2	TGCAGGTGATGTGCGCC
30.25 S	Cod	mab296 6M	LG2	TGCAGGCACTCCCTGG
30.25 A	D5	mab116396M	LG2	TGCAGTAAGACAGCATC
30.25 A	D4	mab241226M	LG2	TGCAGCCATCGTGTGG
30.25 A	D5	mab6596 6M	LG2	TGCAGGCACTCCCTGG
30.25 A	D4	mab216176M	LG2	TGCAGATGCAAACGCAC
32.5 S	Cod	mab3424 6M	LG2	TGCAGTACTACCTGCCT
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32.5 A	D5	mab6656 6M	LG2	TGCAGGCTATGGCGCAC
32.5 AB	D5	mab6866 6M	LG2	TGCAGCAACCTGCATCA
32.5 AB	D5	mab102146M	LG2	TGCAGCCGTAAGATCAT
32.5 AB	D5	mab6635 6M	LG2	TGCAGACGGAGCAGCA
32.5 AB	D5	mab154676M	LG2	TGCAGGGCAGCGACCG

32.5 AB	D5	mab8207 6M	LG2	TGCAGCGCCGTCAAAGC
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32.5 A	D5	mab7826 6M	LG2	TGCAGTTCTACGGCGGC
32.5 A	D5	mab125916M	LG2	TGCAGAATTTGTAATTTT
32.5 A	Cod	mab260 6M	LG2	TGCAGCGGGCGGCTGG
32.5 A	Cod	mab2036 6M	LG2	TGCAGGCTCGACAGCGC
32.5 A	Cod	mab281 6M	LG2	TGCAGTGGATGGATGGC
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32.5 A	D5	mab8732 6M	LG2	TGCAGACATGTGCACGC
32.5 A	Cod	mab4726 6M	LG2	TGCAGCGCTTGCCTAAA
32.5 AB	Cod	mab7456 6M	LG2	TGCAGCCCTTGCCTAAA
32.5 A	D4	mab173656M	LG2	TGCAGATCTCCGCGGCT
32.5 A	Cod	mab1590 6M	LG2	TGCAGTTCTACGGGGAC
36.39 S	Cod	mab956 6M	LG2	TGCAGTACTACCTGCCCC
36.39 A	D4	mab173676M	LG2	TGCAGCAAGGCAGGTTA
36.39 A	D4	mab222876M	LG2	TGCAGGCCCAACAACAC
36.39 A	D4	mab195646M	LG2	TGCAGATCGTGTCCCAA
36.39 A	D5	mab9735 6M	LG2	TGCAGTTTGCGCGTGGC
36.39 AB	D5	mab107846M	LG2	TGCAGCTTCTTTGCCGA
36.39 AB	D5	mab115666M	LG2	TGCAGTGAATAGGAATT
36.39 AB	D5	mab6599 6M	LG2	TGCAGCTGAGACGTCTG
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36.39 AB	D5	mab7713 6M	LG2	TGCAGGCCGTGTCGCGC
36.39 A	D4	mab187806M	LG2	TGCAGGGGTCCGTGGCC
36.39 A	D5	mab8815 6M	LG2	TGCAGTTTGCGCATAGC
36.39 A	D4	mab192466M	LG2	TGCAGCTGAGACGTCCG
36.39 A	D4	mab250816M	LG2	TGCAGCACCCGCACCAC
36.39 A	Cod	mab1944 6M	LG2	TGCAGTGTATCCACACA
36.39 A	D4	mab191336M	LG2	TGCAGTGCACATAATCCA
36.39 A	D5	mab9113 6M	LG2	TGCAGCCCCTCAGTATG
36.39 A	D4	mab179536M	LG2	TGCAGTCAGGCAGTGCA
36.39 A	D4	mab247856M	LG2	TGCAGCTAGATCGGCGA
36.39 A	D4	mab200046M	LG2	TGCAGCCGCTGTCGTCC
36.39 A	D4	mab263186M	LG2	TGCAGCCATCCTCGCTC
36.39 A	D4	mab182606M	LG2	TGCAGTACGCGGGGCA
36.39 A	D5	mab132576M	LG2	TGCAGGCGACTAGGGCA
36.39 A	Cod	mab1153 6M	LG2	TGCAGTTCAACGCCTGC
36.39 A	D4	mab230566M	LG2	TGCAGGCACTTTTCGTG
36.39 A	D4	mab197016M	LG2	TGCAGTTTGGGCATAGC
36.39 A	Cod	mab1203 6M	LG2	TGCAGTTTGGGCATAGC
36.39 A	D4	mab200066M	LG2	TGCAGCCGAGCGCCCA
36.39 A	D4	mab218186M	LG2	TGCAGGCGACTAGGATA
36.39 A	D4	mab229916M	LG2	TGCAGGCGTGCAGTGCC
36.39 A	D4	mab240546M	LG2	TGCAGGAGCGCCCTCTC
36.39 A	D5	mab129756M	LG2	TGCAGTGGTGGGCTCCC

36.39 A	Cod	mab1594 6M	LG2	TGCAGATGTCAAGAGCA
36.39 AB	Cod	mab272276M	LG2	TGCAGTGTGAGCTGCC
36.39 A	Cod	mab2262 6M	LG2	TGCAGCGTAACGAGCGC
36.39 A	Cod	mab3036 6M	LG2	TGCAGCGCGGCGTAGCT
36.39 AB	Cod	mab106236M	LG2	TGCAGTCGTGCTTCGG
36.39 A	D4	mab268116M	LG2	TGCAGTCCAAGATTGGG
36.39 A	D4	mab201456M	LG2	TGCAGGGGGAACCTGC
36.39 A	D4	mab280796M	LG2	TGCAGCGGCCCTGTG
44.37 S	Cod	mab3339 6M	LG2	TGCAGATCCCTGCGAGA
44.37 B	D4	mab174116M	LG2	TGCAGATCCCTGCGGGA
44.37 A	D5	mab7581 6M	LG2	TGCAGATCCCTGCGAGA
45.71 S	Cod	mab3057 6M	LG2	TGCAGAAGAAAGCTCAC
45.71 A	D5	mab105086M	LG2	TGCAGGAAGGCCACGT
47.29 S	Cod	mab4298 6M	LG2	TGCAGGGGGAATCCCC
47.29 B	D4	mab232246M	LG2	TGCAGCTCGTCGAGCGC
47.29 B	D4	mab182726M	LG2	TGCAGGGGGGGATCCC
47.29 A	D5	mab114556M	LG2	TGCAGAAAAAAGGAGAA
47.29 A	D5	mab155346M	LG2	TGCAGTCCAGCTGATGG
47.29 AB	D5	mab126726M	LG2	TGCAGTTCTTCACGAGC
47.29 AB	D5	mab127986M	LG2	TGCAGTCCATCTGCTC
47.29 A	D5	mab7524 6M	LG2	TGCAGGAAGCCAAGAA
47.29 AB	D5	mab112896M	LG2	TGCAGCTTTTGTGTGCC
47.29 A	D5	mab7504 6M	LG2	TGCAGGGGGAATCCCC
50.46 S	Cod	mab3058 6M	LG2	TGCAGTTGCGTCTGATC
50.46 B	D4	mab173696M	LG2	TGCAGTTACGCCTAATCT
50.46 B	D4	mab180466M	LG2	TGCAGCTAGGCGGCCCC
50.46 A	D5	mab6659 6M	LG2	TGCAGGCCGCTTCGCC
51.13 S	Cod	mab4741 6M	LG2	TGCAGGGAGCTTCCTGA
51.13 A	D5	mab8587 6M	LG2	TGCAGGGAGCTTCCTGA
51.13 A	Cod	mab282 6M	LG2	TGCAGTTACGCCTAATCT
51.13 A	D5	mab149716M	LG2	TGCAGCTGGTTGTGGTT
51.13 A	Cod	mab4171 6M	LG2	TGCAGCTAGGCGGGCC
51.13 A	D5	mab8806 6M	LG2	TGCAGAGGTCGGCGGTC
53.84 S	Cod	mab1125 6M	LG2	TGCAGCTTCAGCCACAC
53.84 B	D5	mab9609 6M	LG2	TGCAGTCGCCTAATTGC
53.84 B	D5	mab7577 6M	LG2	TGCAGATGGCATAAGCG
53.84 B	D5	mab8268 6M	LG2	TGCAGCTCGGCCCTCT
53.84 B	D5	mab113496M	LG2	TGCAGCCGTGCATGGAA
53.84 A	D4	mab202836M	LG2	TGCAGGCCACCGACCA
53.84 A	D4	mab236496M	LG2	TGCAGCAAAGATGCCTT
53.84 A	D4	mab218466M	LG2	TGCAGGAGGAGGTCCTC
53.84 A	D4	mab269936M	LG2	TGCAGTTATTGATATGCA
53.84 A	D4	mab174006M	LG2	TGCAGATTGTACTCCTCC
53.84 A	D4	mab203456M	LG2	TGCAGCTCGATGGTGAG
53.84 A	D4	mab264266M	LG2	TGCAGGAGGGAGGGAG
53.84 A	D4	mab244716M	LG2	TGCAGGGCGCGTCGTAC
53.84 A	D4	mab210096M	LG2	TGCAGGATCTACGGACC
53.84 A	D4	mab252826M	LG2	TGCAGAAGAGGGGGGG

53.84 A	D4	mab185196M	LG2	TGCAGCTCGGCGCGCA
53.84 A	D4	mab268736M	LG2	TGCAGCGGCGGTGACA
53.84 A	D4	mab210846M	LG2	TGCAGCTGCTACAGTAG
53.84 A	D4	mab251686M	LG2	TGCAGAGTGCAGACACC
53.84 A	D4	mab269836M	LG2	TGCAGCCTGACGAGGA
53.84 A	D5	mab109726M	LG2	TGCAGCACCATGGTCGA
53.84 AB	D5	mab105746M	LG2	TGCAGAGAAGACGGGG
53.84 AB	D5	mab105056M	LG2	TGCAGGAGAGAGAAGA
53.84 A	D5	mab129126M	LG2	TGCAGAATCCATCGAAC
53.84 A	D4	mab221686M	LG2	TGCAGAGGCTCTACTTG
53.84 A	D5	mab158866M	LG2	TGCAGCATTTCGTGAA
53.84 A	D4	mab275096M	LG2	TGCAGGCTCAGCACCA
53.84 A	D4	mab245196M	LG2	TGCAGGCTCCCTAGTCC
53.84 A	D4	mab231386M	LG2	TGCAGGAAGGTTAGGGT
53.84 A	D4	mab244026M	LG2	TGCAGGTGGAAGCGTC
53.84 A	D4	mab245596M	LG2	TGCAGGCCCGCTGCGG
53.84 A	D4	mab243196M	LG2	TGCAGTCGCCTCCGACC
53.84 A	D4	mab249606M	LG2	TGCAGCCCATTGCTCGA
53.84 A	D4	mab212436M	LG2	TGCAGCCAGCTTTAGTT
53.84 A	D5	mab126786M	LG2	TGCAGTGGGGCATATAG
53.84 A	D4	mab177696M	LG2	TGCAGTGTAGGTCTGGT
53.84 A	Cod	mab5577 6M	LG2	TGCAGGTCGACCAGCAC
53.84 A	D4	mab172016M	LG2	TGCAGGGGATACGTGTG
53.84 A	Cod	mab4949 6M	LG2	TGCAGCACCATGGTCGA
53.84 A	D5	mab105476M	LG2	TGCAGCAGTGAGTAGAA
53.84 A	D5	mab112006M	LG2	TGCAGTCGCACCATGGA
53.84 A	D4	mab172026M	LG2	TGCAGGGGAGGCCGAG
53.84 A	Cod	mab3059 6M	LG2	TGCAGCTACAACAGATC
53.84 A	D4	mab190206M	LG2	TGCAGGACGCGACACTA
59.12 S	Cod	mab1152 6M	LG2	TGCAGCCGAAGAAGCG
59.12 A	Cod	mab1426 6M	LG2	TGCAGGTGGAAGGCTAC
59.12 A	D4	mab185276M	LG2	TGCAGCTACGTTCTAG
59.12 A	D4	mab260476M	LG2	TGCAGCCTAGCACTGCT
59.12 A	D5	mab7929 6M	LG2	TGCAGCCCATTCCCAGC
59.12 AB	D5	mab7933 6M	LG2	TGCAGACGCCAGAGATC
59.12 AB	D5	mab8135 6M	LG2	TGCAGGTGGAAGGCTAC
60.46 S	Cod	mab4092 6M	LG2	TGCAGGTCGTGGGGATC
60.46 B	Cod	mab3934 6M	LG2	TGCAGGTCGTGGGGATC
61.13 S	Cod	mab263 6M	LG2	TGCAGGGCTGGCGTCG
61.13 B	D4	mab226296M	LG2	TGCAGTTTAGCTGGCAC
61.13 B	D4	mab173196M	LG2	TGCAGCTGTGCCCACTC
61.13 B	D4	mab227876M	LG2	TGCAGTAGCGCGAGGA
62.02 S	Cod	mab587 6M	LG2	TGCAGGTTGTGGCGCAT
62.02 A	Cod	mab300 6M	LG2	TGCAGGTCGTGAGGCT
62.46 S	Cod	mab3497 6M	LG2	TGCAGCAACCACGCCGT
62.46 B	Cod	mab3294 6M	LG2	TGCAGGCCAAGGCCTCC
62.46 B	D5	mab6865 6M	LG2	TGCAGGCCTTGAAGCAC
62.46 A	Cod	mab600 6M	LG2	TGCAGTAGTACCTGCCC

62.46 A	D4	mab167466M	LG2	TGCAGGAGTGCGGGGCTA
62.46 A	D4	mab183926M	LG2	TGCAGGAGGCTGCTGG
62.46 A	D4	mab167456M	LG2	TGCAGTAACACGATGTT
62.46 A	D4	mab209506M	LG2	TGCAGGCTCCGACCGCC
62.46 A	D4	mab273546M	LG2	TGCAGTACTACCTGCC
62.46 A	D4	mab265736M	LG2	TGCAGGCGGACGCTTG
63.13 S	Cod	mab3060 6M	LG2	TGCAGCCGCCTCCTCTC
63.13 B	D5	mab154296M	LG2	TGCAGGAATGGCAATGC
63.13 B	D4	mab174176M	LG2	TGCAGCCGCCTCCTCTC
63.13 B	D4	mab267326M	LG2	TGCAGTCCAAGTAGGAG
63.13 B	D4	mab267486M	LG2	TGCAGCCACGGCAACA
63.13 B	D4	mab234546M	LG2	TGCAGCCGACTCCTCGT
63.13 B	D4	mab275926M	LG2	TGCAGTACTACGCAATG
63.13 B	D4	mab233556M	LG2	TGCAGCGCCGACGACG
63.13 B	D4	mab271946M	LG2	TGCAGAAGGCAGGCC
63.13 B	D4	mab233126M	LG2	TGCAGCGGCGGCGGTG
63.13 B	D4	mab269456M	LG2	TGCAGCCATGGGAAGC
63.13 B	D4	mab271686M	LG2	TGCAGTTCTACGAGGCG
63.13 B	D4	mab235806M	LG2	TGCAGCAGCACTTGAGC
63.13 B	D4	mab183256M	LG2	TGCAGCAGCGACGGCA
63.13 B	D4	mab263266M	LG2	TGCAGCAACCATCCAGA
63.13 B	D4	mab249846M	LG2	TGCAGCCACGCCGAGC
63.13 B	D4	mab178076M	LG2	TGCAGTGGCCAGTCTGA
63.13 B	D4	mab210236M	LG2	TGCAGGAGGAACAAGC
63.13 B	D4	mab248936M	LG2	TGCAGCGAGAAAGATGC
63.13 B	D4	mab182096M	LG2	TGCAGGCCTAGACCATA
63.13 B	D4	mab173216M	LG2	TGCAGCCCATTGGAAGC
63.13 B	D4	mab198086M	LG2	TGCAGGTCAACTATGCC
63.13 B	D4	mab264066M	LG2	TGCAGCGCACGTCCTCC
63.13 B	D5	mab6662 6M	LG2	TGCAGCCGCCTCCTCTC
63.13 B	D4	mab250746M	LG2	TGCAGCACGACAACCAT
63.13 B	D5	mab8114 6M	LG2	TGCAGCTCGGCCGCCG
63.13 B	D5	mab158756M	LG2	TGCAGCCCAAGTCTTGT
63.13 B	D4	mab280186M	LG2	TGCAGGGACAAACCGTA
63.13 B	D5	mab157236M	LG2	TGCAGTGCAGCACAAAGC
63.13 A	D4	mab173266M	LG2	TGCAGATTGAATGCACT
63.13 A	D4	mab204606M	LG2	TGCAGATGATCTCAAAG
63.13 A	D4	mab250796M	LG2	TGCAGCACCCGCGGAA
63.13 A	Cod	mab4970 6M	LG2	TGCAGAAATTCCAAGCA
63.13 A	D4	mab220056M	LG2	TGCAGCGAGACCATGCT
63.13 A	D4	mab211956M	LG2	TGCAGCCTTCTGCTGCT
63.13 A	Cod	mab906 6M	LG2	TGCAGAGGAGCCATGCC
63.13 A	D4	mab199986M	LG2	TGCAGCCTGCACGGCA
63.13 A	D4	mab278546M	LG2	TGCAGTCTTCTGCTTCAG
63.13 A	Cod	mab2489 6M	LG2	TGCAGCGCGGAGTTCGA
63.13 A	D4	mab252366M	LG2	TGCAGACGGCGGAGGC
63.13 A	Cod	mab1311 6M	LG2	TGCAGCTAGCAGCATT
63.13 A	Cod	mab1322 6M	LG2	TGCAGCAGAGCTTGGTC

63.13 AB	Cod	mab4207 6M	LG2	TGCAGAGCGAGCCCC
63.13 AB	Cod	mab2365 6M	LG2	TGCAGGCGGAAAATTGC
63.13 A	D4	mab245836M	LG2	TGCAGGCAGAGCACAA
63.13 A	D4	mab173286M	LG2	TGCAGACCACCACCATC
63.13 A	Cod	mab1486 6M	LG2	TGCAGAATGACACACGC
63.13 A	D4	mab173276M	LG2	TGCAGGCTTGGCGTCG
63.13 A	D4	mab246806M	LG2	TGCAGCTTGC CGCTCC
63.13 A	D4	mab200366M	LG2	TGCAGCAGGGAGATCTC
64.02 S	Cod	mab795 6M	LG2	TGCAGCTTCTGCTTCAG
64.02 B	D5	mab156006M	LG2	TGCAGTACTGCAAAGG
64.02 B	D5	mab104936M	LG2	TGCAGGGATCGTCGCCA
64.02 B	D5	mab6876 6M	LG2	TGCAGCAGATTTCACAA
64.02 B	D5	mab6664 6M	LG2	TGCAGCTTCTGCTTCAG
64.02 B	D5	mab152826M	LG2	TGCAGGGAGGTGCGAG
64.02 B	D5	mab9086 6M	LG2	TGCAGCCTGCACGGCG
64.02 B	D5	mab9620 6M	LG2	TGCAGGTGGGACACAG
64.02 A	D5	mab112016M	LG2	TGCAGTCTAAGATGATA
64.02 A	D5	mab105636M	LG2	TGCAGATAAGTGCCCCA
64.02 A	D5	mab113806M	LG2	TGCAGCAGCCTGGCTG
64.02 A	Cod	mab4116 6M	LG2	TGCAGCGCCGATGGTCC
64.02 A	D5	mab7484 6M	LG2	TGCAGCCATCCCCTTA
64.02 AB	D5	mab7433 6M	LG2	TGCAGTGTGGGAGGAG
64.02 AB	D5	mab153936M	LG2	TGCAGGGCCTCGGCGTA
64.02 AB	D5	mab127496M	LG2	TGCAGGCGGGGACACTG
64.02 A	D5	mab9685 6M	LG2	TGCAGCCCTCCTGCATC
64.02 AB	D5	mab9677 6M	LG2	TGCAGCCGTGCGAGGG
64.02 A	Cod	mab1848 6M	LG2	TGCAGACGCGGGAGGC
64.02 A	D5	mab105436M	LG2	TGCAGCATCGACCGCAG
64.02 AB	D5	mab114356M	LG2	TGCAGACGATGCTGCGC
64.02 AB	D5	mab6636 6M	LG2	TGCAGACACTGTACAAC
64.02 AB	D5	mab9672 6M	LG2	TGCAGCGCCTTCTCAGA
64.02 AB	D5	mab114086M	LG2	TGCAGATGGGCGGTTTC
64.02 AB	D5	mab8576 6M	LG2	TGCAGGTATCTAGAGTTC
64.02 AB	D5	mab128676M	LG2	TGCAGCAATGCACTGAT
64.02 AB	D5	mab8750 6M	LG2	TGCAGGTCAATTCCTCA
64.02 AB	D5	mab6349 6M	LG2	TGCAGACAAAACAACAG
64.02 A	Cod	mab3836 6M	LG2	TGCAGCATGCACACCAT
64.02 A	Cod	mab3362 6M	LG2	TGCAGATCTACGGCAAC
64.02 A	D5	mab105606M	LG2	TGCAGATTCTTTCATGTC
64.02 A	Cod	mab5574 6M	LG2	TGCAGCTGGTGGTTGT
64.02 A	D5	mab113316M	LG2	TGCAGCGCGCACCGCC
64.02 A	D5	mab113626M	LG2	TGCAGCCAGCCCCTCTC
64.02 A	D5	mab113726M	LG2	TGCAGCAGGTGGCCGTC
64.02 A	Cod	mab268 6M	LG2	TGCAGATTGAATGCACT
64.02 AB	Cod	mab3488 6M	LG2	TGCAGCCTGCACGGCG
64.02 A	Cod	mab821 6M	LG2	TGCAGCACAAAACACA
64.02 A	D5	mab8580 6M	LG2	TGCAGGGTCAACAGTTG
64.02 A	D5	mab111006M	LG2	TGCAGAAATCCAAGCA

64.02 A	D5	mab7238 6M	LG2	TGCAGGGGCTTACCCAG
64.02 A	D5	mab127466M	LG2	TGCAGGCTAAATACACA
64.02 A	Cod	mab302 6M	LG2	TGCAGCATTTCGTAAGAA
64.02 A	D5	mab9579 6M	LG2	TGCAGACCCGCGGGGC
64.02 A	D5	mab9197 6M	LG2	TGCAGGGGAGCCATGCC
64.02 A	D5	mab113356M	LG2	TGCAGCGCACGACCCTC
67.66 S	Cod	mab3617 6M	LG2	TGCAGCAGCTTGGTGGT
67.66 B	Cod	mab2196 6M	LG2	TGCAGAGAAACGGCCG
67.66 B	D4	mab273396M	LG2	TGCAGCTGTACTGCGCG
67.66 B	D4	mab242406M	LG2	TGCAGTGTGGTCGCCG
67.66 B	D4	mab204816M	LG2	TGCAGAGAAACGGCCG
68.55 S	Cod	mab657 6M	LG2	TGCAGACGAAGCGTGAT
68.55 B	D5	mab127946M	LG2	TGCAGCTCCGCTCGCGC
68.55 B	D5	mab105256M	LG2	TGCAGCGTCTTGAGGGA
68.55 B	D5	mab8755 6M	LG2	TGCAGGGGCGGTTGCA
68.55 B	D5	mab8933 6M	LG2	TGCAGGCGAGGCGGCT
68.55 B	D5	mab111746M	LG2	TGCAGTTGGTTGGCTGC
68.55 B	D5	mab8757 6M	LG2	TGCAGGGAGTTGCAACC
68.55 B	D5	mab112656M	LG2	TGCAGGCATCAGGTGAA
68.55 B	D4	mab243406M	LG2	TGCAGTATAAACTGCAA
68.55 B	D4	mab176026M	LG2	TGCAGCTTCGAGTCCCA
68.55 B	D4	mab195986M	LG2	TGCAGACGAAGCGTGAT
68.55 B	D4	mab235856M	LG2	TGCAGCAGCAAGCGGC
68.55 B	D4	mab200716M	LG2	TGCAGCAAACAGGCTAG
68.55 B	D4	mab203626M	LG2	TGCAGCGGTGGCGAATC
68.55 B	D5	mab114116M	LG2	TGCAGATCGTTTCCACA
68.55 B	D5	mab9729 6M	LG2	TGCAGAAGGCGAGGGA
68.55 B	D5	mab139846M	LG2	TGCAGACGAAGCGTGAT
68.55 B	D5	mab151296M	LG2	TGCAGCGTAAGCTCCTA
68.55 B	D5	mab112066M	LG2	TGCAGTCATATGATCATT
68.55 B	D5	mab159966M	LG2	TGCAGCTCCACCATCCA
68.55 B	D5	mab158946M	LG2	TGCAGCGCCAACAGCTC
68.55 A	D5	mab108776M	LG2	TGCAGTGATTGGAATCA
68.55 A	Cod	mab1572 6M	LG2	TGCAGTCCAAAAGCTGC
68.55 A	D5	mab9730 6M	LG2	TGCAGAAGACATTCTCA
68.55 A	D5	mab113246M	LG2	TGCAGCGGCGCGTCGTC
68.55 A	D5	mab113166M	LG2	TGCAGCGTCCACATTAA
69.67 S	Cod	mab887 6M	LG2	TGCAGACGGAGACGGA
69.67 B	D5	mab9648 6M	LG2	TGCAGGAGGGACGCCG
69.67 A	D4	mab232666M	LG2	TGCAGCTACCACCGTAA
69.67 A	Cod	mab647 6M	LG2	TGCAGCTTTGAAGAGGC
69.67 A	D5	mab9728 6M	LG2	TGCAGAAGTGACTGACA
69.67 AB	D5	mab157816M	LG2	TGCAGCTCCTGCGAGGC
69.67 AB	D5	mab8978 6M	LG2	TGCAGCTTCGAAGAGGC
69.67 AB	D5	mab113216M	LG2	TGCAGCGGGCGCTGCG
69.67 A	D5	mab112196M	LG2	TGCAGTTCTGTTCTCTCC
69.67 AB	D5	mab8635 6M	LG2	TGCAGCTAGCGGCAGCA
69.67 A	D5	mab129166M	LG2	TGCAGAAGTGACTGACA

69.67 A	Cod	mab1698 6M	LG2	TGCAGGTAGAGCTTGCC
69.67 A	D4	mab200526M	LG2	TGCAGCAGAGGACCAG
69.67 A	Cod	mab2513 6M	LG2	TGCAGTCTGCAAAGTCG
69.67 A	D4	mab199066M	LG2	TGCAGCTTTGAAGAGGC
69.67 A	D5	mab154506M	LG2	TGCAGGTACTAGACTTCT
69.67 A	D4	mab214336M	LG2	TGCAGACTGCATGCATG
69.67 A	D5	mab142866M	LG2	TGCAGTACCTTAACCTCT
69.67 A	D5	mab128766M	LG2	TGCAGATGGGGCCCGC
69.67 A	D4	mab218566M	LG2	TGCAGGAGCCACGTGCC
69.67 A	D4	mab198556M	LG2	TGCAGGCGCGCGGGGC
69.67 A	D5	mab6670 6M	LG2	TGCAGGCGGTATGCAGC
69.67 A	D4	mab228636M	LG2	TGCAGGTCTCCCTCACG
69.67 A	D4	mab183526M	LG2	TGCAGACCCTGGTCCCC
69.67 A	D4	mab280066M	LG2	TGCAGTGAAAAGAGCTC
69.67 A	D5	mab104826M	LG2	TGCAGGTCTCCCTCACG
69.67 A	D4	mab247166M	LG2	TGCAGCTGGCTCATGGC
72.38 S	Cod	mab799 6M	LG2	TGCAGCAGTACCAGAGT
72.38 B	D5	mab6974 6M	LG2	TGCAGATGATGAGGAGA
72.38 B	D5	mab8742 6M	LG2	TGCAGTGTGTATGTGGG
72.38 B	Cod	mab574 6M	LG2	TGCAGCTGGATGGCGTC
72.38 A	Cod	mab1147 6M	LG2	TGCAGATCGCCGCCACC
72.38 A	Cod	mab5325 6M	LG2	TGCAGCATGAAAAAGTA
72.38 A	Cod	mab4435 6M	LG2	TGCAGCCACCCAGACGC
72.38 A	Cod	mab4203 6M	LG2	TGCAGGCTAATAAATCTT
72.38 A	D5	mab113606M	LG2	TGCAGCCCAGCCTTCGC
72.38 AB	D5	mab107226M	LG2	TGCAGGCTAATAAATCTT
72.38 AB	D5	mab158316M	LG2	TGCAGCTCATGCCCCA
72.38 AB	D5	mab7181 6M	LG2	TGCAGGTCCAGCTCCCA
72.38 AB	D5	mab9435 6M	LG2	TGCAGCTCACCATAGGC
72.38 AB	D5	mab9655 6M	LG2	TGCAGCTTGACAACGC
72.38 AB	D5	mab6414 6M	LG2	TGCAGTTTCTCTTCGGT
72.38 AB	D5	mab8803 6M	LG2	TGCAGATCGCCGCGCC
73.05 S	Cod	mab831 6M	LG2	TGCAGCGGCACGTCTCC
73.05 B	D5	mab114216M	LG2	TGCAGAGGAGATCGGCC
73.05 B	D5	mab114286M	LG2	TGCAGAGAGGAAAAGTC
73.05 B	D5	mab113386M	LG2	TGCAGCGAGCCATGGG
73.05 B	D5	mab127706M	LG2	TGCAGGAGAGAGAGAA
73.05 B	D5	mab9658 6M	LG2	TGCAGCTTCTCTCGAG
73.05 B	D5	mab113266M	LG2	TGCAGCGCGGATTGGTA
73.05 B	D5	mab9725 6M	LG2	TGCAGACCCAGTGGAT
73.05 B	D5	mab160216M	LG2	TGCAGCTCCGTCCGCGA
73.05 B	D5	mab7161 6M	LG2	TGCAGAGGACGAGCCC
73.05 B	D5	mab105516M	LG2	TGCAGCACGGGCGGGC
73.05 B	D5	mab6675 6M	LG2	TGCAGGTGGCCGCGCT
73.05 B	D5	mab9530 6M	LG2	TGCAGCAACGCAACGA
73.05 B	D5	mab113876M	LG2	TGCAGCAGAAGCGGGG
73.05 B	D5	mab111816M	LG2	TGCAGTTCGAGGTGGG
73.05 B	D5	mab105106M	LG2	TGCAGTTCCTCTCTTC

73.05 B	D5	mab9704 6M	LG2	TGCAGCAAGTTGGACGC
73.05 B	D5	mab128806M	LG2	TGCAGATCCCCAGCAAA
73.05 B	D5	mab128276M	LG2	TGCAGCGCTGGGCGTAC
73.05 B	D5	mab9651 6M	LG2	TGCAGGAATCACGTCTGT
73.05 B	D5	mab129116M	LG2	TGCAGAATTGCCCCGAC
73.05 B	D5	mab104666M	LG2	TGCAGTTTCTTTTCGCTA
73.05 B	D5	mab128886M	LG2	TGCAGAGGCTGCGGTG
73.05 B	D5	mab9251 6M	LG2	TGCAGGGGAGGAATGG
73.05 B	Cod	mab4685 6M	LG2	TGCAGTTGGGCGGACG
73.05 B	Cod	mab1619 6M	LG2	TGCAGTCCAACGAAGCT
73.05 B	Cod	mab1460 6M	LG2	TGCAGACGTTGCTCTTC
73.05 B	Cod	mab3673 6M	LG2	TGCAGCTTCGCGGGCA
73.05 B	Cod	mab3382 6M	LG2	TGCAGACTGTGTGCAAG
73.05 B	Cod	mab3382 6M	LG2	TGCAGACTGTGTGCAAG
73.05 B	D5	mab127516M	LG2	TGCAGGCGCGCGCGTG
73.05 B	D5	mab8045 6M	LG2	TGCAGCTCTCCGCTCC
73.05 B	D5	mab112396M	LG2	TGCAGGGGCGCGTCAC
73.05 B	D5	mab127686M	LG2	TGCAGGAGATGTAGCGA
73.05 B	D5	mab113986M	LG2	TGCAGCAAGAAGGCGA
73.05 B	D5	mab113336M	LG2	TGCAGCGCCGAGCGCA
73.05 B	D5	mab148686M	LG2	TGCAGGTCTAGCCCAAC
73.05 B	D5	mab113536M	LG2	TGCAGCCGCACCGCCC
73.05 B	D5	mab8273 6M	LG2	TGCAGCCAACTGCGCT
73.05 B	D5	mab128226M	LG2	TGCAGCGGCAGCGGG
73.05 B	D5	mab113746M	LG2	TGCAGCAGGGGCGAGGT
73.05 B	D5	mab127736M	LG2	TGCAGGACGAGCGGCA
73.05 B	D5	mab9671 6M	LG2	TGCAGCGCGCTAGGCA
73.05 B	D5	mab127136M	LG2	TGCAGGTTGCGCGTGAC
73.05 B	D5	mab7436 6M	LG2	TGCAGTGCCTGGATTG
73.05 B	D5	mab7866 6M	LG2	TGCAGCGGGGCGCTTG
73.05 B	D5	mab128106M	LG2	TGCAGCGTGGGCGAGG
73.05 B	D5	mab128166M	LG2	TGCAGCGGGAGGTGGG
73.05 B	D5	mab152566M	LG2	TGCAGCCGAGACGAGC
73.05 B	D5	mab7075 6M	LG2	TGCAGCGACAGCATGCT
73.05 B	D5	mab9723 6M	LG2	TGCAGACGAGTGTGGTC
73.05 B	D5	mab151096M	LG2	TGCAGATGGCGAGGGG
73.05 B	D5	mab128406M	LG2	TGCAGCCCCTGCTTGA
73.05 B	D5	mab105136M	LG2	TGCAGCTGTCCGCCAC
73.05 B	D5	mab154986M	LG2	TGCAGGTTGCCGCTTTG
73.05 B	D5	mab128016M	LG2	TGCAGCTCAAGGCGAAT
73.05 B	D5	mab111726M	LG2	TGCAGTTTACACGCGCG
73.05 B	D5	mab128256M	LG2	TGCAGCGGCAGCACCTC
73.05 B	D5	mab128246M	LG2	TGCAGCGGCAGCAGTAC
73.05 B	D5	mab105186M	LG2	TGCAGCTCTCTGCCGC
73.05 B	D5	mab7498 6M	LG2	TGCAGGTGGAGCATGG
73.05 B	D5	mab144096M	LG2	TGCAGCTCGGAGGCGC
73.05 B	D5	mab128346M	LG2	TGCAGCGAACGGCGAT
73.05 A	D4	mab199936M	LG2	TGCAGCCTTGCGCAAGC

73.05 A	D4	mab198696M	LG2	TGCAGGCCACAACGACC
73.05 A	D4	mab229866M	LG2	TGCAGGCTAGCCGACGA
73.05 A	D4	mab200686M	LG2	TGCAGCAACAGCAACGA
73.05 A	D4	mab208656M	LG2	TGCAGGTGTGCAAAAGC
73.05 A	D5	mab6627 6M	LG2	TGCAGGCGACCCCTGG
73.05 A	D4	mab219096M	LG2	TGCAGCTGGCTACGCC
73.05 A	D4	mab176956M	LG2	TGCAGTTGCTGACGAAG
73.05 A	D4	mab186216M	LG2	TGCAGGTAGTGCAGGTT
73.05 A	D4	mab214066M	LG2	TGCAGAGCTCGAGGAG
73.05 A	D4	mab190246M	LG2	TGCAGGAAGTGTGCTC
73.05 A	D4	mab209596M	LG2	TGCAGGCGGCCCTCCG
73.05 A	D4	mab181966M	LG2	TGCAGTGGCAGCGCATC
73.05 A	D4	mab208926M	LG2	TGCAGGTCAGCACGGCC
73.05 A	D4	mab228786M	LG2	TGCAGGTCATGTGGCG
73.05 A	D4	mab228996M	LG2	TGCAGGGTGGCTCAGCC
73.05 A	D5	mab156516M	LG2	TGCAGAAGCATGGACCT
73.05 A	D4	mab232506M	LG2	TGCAGCTCAACAATAGC
73.05 A	D4	mab260496M	LG2	TGCAGAGCTGTCATCGG
73.05 A	D4	mab273476M	LG2	TGCAGGAGGAGGCGCC
73.05 A	D4	mab231106M	LG2	TGCAGGAGCAGGCAAG
73.05 A	D4	mab212856M	LG2	TGCAGCAGCTGCAAGG
73.05 A	Cod	mab5627 6M	LG2	TGCAGCGGCAGGTGAC
73.05 A	D4	mab250326M	LG2	TGCAGCAGGCTTAGTCA
73.05 A	D4	mab249496M	LG2	TGCAGCCCCTTGCTTGA
73.05 A	D4	mab176766M	LG2	TGCAGTTGTGGATGCGC
73.05 A	D4	mab178976M	LG2	TGCAGTCGGAGGTGCGC
73.05 A	D4	mab185246M	LG2	TGCAGCTCCACCGCCGA
73.05 A	D4	mab191986M	LG2	TGCAGGCCTTGCCTCAC
73.05 A	D4	mab192666M	LG2	TGCAGCGGTGACAAATC
73.05 A	Cod	mab952 6M	LG2	TGCAGCTTCGACGGAGA
73.05 A	D4	mab214596M	LG2	TGCAGACACGCATCCAC
73.05 A	D4	mab210206M	LG2	TGCAGGAGGCACGCGG
73.05 A	Cod	mab1677 6M	LG2	TGCAGTCTGTTGCCGCC
73.05 AB	Cod	mab113596M	LG2	TGCAGCCCCGCGCCCC
73.05 A	Cod	mab5381 6M	LG2	TGCAGGCATGGGCCCGC
73.05 A	Cod	mab837 6M	LG2	TGCAGTGGCAGCGCATC
73.05 AB	Cod	mab7902 6M	LG2	TGCAGATCGCTCGTAC
73.05 AB	Cod	mab140076M	LG2	TGCAGTGGCAGCGCATC
73.05 AB	Cod	mab7155 6M	LG2	TGCAGAGCATCAGCCCC
73.05 AB	Cod	mab1317 6M	LG2	TGCAGATCGTTATCACC
73.05 AB	Cod	mab3293 6M	LG2	TGCAGACTGTGTGCAAT
73.05 AB	Cod	mab2564 6M	LG2	TGCAGTACTGTACGGTG
73.05 AB	Cod	mab305 6M	LG2	TGCAGCACGACCAACAC
73.05 AB	Cod	mab8896 6M	LG2	TGCAGGGCCATTGTCTC
73.05 AB	Cod	mab151386M	LG2	TGCAGCGGACGTAAGTC
73.05 A	Cod	mab2043 6M	LG2	TGCAGTGTGAGCCGCC
73.05 A	Cod	mab306 6M	LG2	TGCAGGCCCGCCCGAG
73.05 A	D4	mab177726M	LG2	TGCAGTGTAAAGTTGCAC

73.05 A	D4	mab248596M	LG2	TGCAGCGCTGGGCGTAA
73.05 A	D4	mab271756M	LG2	TGCAGCAGCGACCTGCC
73.05 A	D4	mab261146M	LG2	TGCAGGGCGTCACCCAA
73.05 A	D4	mab269616M	LG2	TGCAGCTACAAGCGCAT
73.05 A	D4	mab265076M	LG2	TGCAGTTCATCGAGAAG
73.05 A	D4	mab248226M	LG2	TGCAGCGGGCGAGAGG
73.05 A	D4	mab280046M	LG2	TGCAGATCGCTCATCAC
73.05 A	D4	mab235546M	LG2	TGCAGCAGGACGCACAA
73.05 A	D4	mab255946M	LG2	TGCAGGGCGCCAGGGC
73.05 A	D4	mab244396M	LG2	TGCAGGGTGGTCAGCG
73.05 A	D4	mab233336M	LG2	TGCAGCGGACATGCTGA
73.05 A	D4	mab244906M	LG2	TGCAGGGAGGTTGGTGA
73.05 A	D4	mab248206M	LG2	TGCAGCGGGCTCGTCTC
73.05 A	D4	mab233476M	LG2	TGCAGCGCGCTGCTG
73.05 A	D4	mab242236M	LG2	TGCAGTTGAAGCACTTG
73.05 A	D4	mab236026M	LG2	TGCAGCACGAGCACGAT
73.05 A	D4	mab220446M	LG2	TGCAGCCCCACCCAGC
73.05 A	D4	mab247626M	LG2	TGCAGTCTCTCTCCGCC
73.72 S	Cod	mab719 6M	LG2	TGCAGTAGATTACCTTCC
73.72 B	D5	mab8057 6M	LG2	TGCAGCCGCGCTTTTGA
73.72 B	D5	mab8127 6M	LG2	TGCAGTCCCGACTAGCA
73.72 B	Cod	mab1394 6M	LG2	TGCAGCACGGCGTGCA
73.72 B	Cod	mab1435 6M	LG2	TGCAGATGAAGGAAAGA
73.72 B	Cod	mab4479 6M	LG2	TGCAGGCAAGATCATAA
73.72 B	D5	mab104796M	LG2	TGCAGTTTGCTTTGGG
73.72 B	D5	mab8626 6M	LG2	TGCAGTGCTTCGATTTC
73.72 B	D5	mab7279 6M	LG2	TGCAGCCACCTTTGCCG
73.72 B	D5	mab6671 6M	LG2	TGCAGGTGACCCACTTC
73.72 B	D5	mab109686M	LG2	TGCAGCACGGCGTGCA
73.72 B	D5	mab7928 6M	LG2	TGCAGCCCTGCATGGG
73.72 B	D5	mab6972 6M	LG2	TGCAGGCCCTGGTCGA
73.72 B	D5	mab127926M	LG2	TGCAGCTGAGAAGGATC
73.72 A	D4	mab210856M	LG2	TGCAGTGCTCTGTGCC
73.72 A	Cod	mab2257 6M	LG2	TGCAGGTCCATGGACAT
73.72 A	D4	mab226496M	LG2	TGCAGTTGCAACCTCCC
73.72 A	D4	mab179226M	LG2	TGCAGTCTCACTTGTC
73.72 A	Cod	mab2276 6M	LG2	TGCAGCATGTGGCGCT
73.72 A	D4	mab179786M	LG2	TGCAGTAGCTCTCCCCT
73.72 A	Cod	mab2344 6M	LG2	TGCAGTCTCTGGTGGCC
73.72 A	D4	mab207506M	LG2	TGCAGTGTGTATGTGGA
73.72 A	D5	mab9657 6M	LG2	TGCAGCTTGCCCACCGT
73.72 A	Cod	mab1344 6M	LG2	TGCAGCACCTGGAGCAC
73.72 AB	Cod	mab1524 6M	LG2	TGCAGCGCAGCACACGA
73.72 AB	Cod	mab156276M	LG2	TGCAGGAGTCCGCGGG
73.72 A	D4	mab202796M	LG2	TGCAGGCGCGGCGACG
73.72 A	D4	mab262986M	LG2	TGCAGTCCAGGTTGTG
73.72 A	D4	mab233326M	LG2	TGCAGCGGACGAACTCC
73.72 A	D4	mab266216M	LG2	TGCAGCGCGCGGCTG

73.72 A	D4	mab176116M	LG2	TGCAGACAGGCGCAGC
73.72 A	D4	mab173766M	LG2	TGCAGTACCTTAACCTC
73.72 A	Cod	mab1377 6M	LG2	TGCAGACCCGAGCTCAC
73.72 A	D5	mab9070 6M	LG2	TGCAGCGCAGCACACGA
73.72 A	D4	mab221506M	LG2	TGCAGATCGCCTGCGCC
73.72 A	Cod	mab817 6M	LG2	TGCAGCCACCTTTGCCG
73.72 AB	Cod	mab129086M	LG2	TGCAGACCCCGTGCACT
73.72 AB	Cod	mab518 6M	LG2	TGCAGGCCGTGCGGCTC
73.72 A	D4	mab177876M	LG2	TGCAGTGGGTGTTCTTTA
73.72 A	D4	mab230106M	LG2	TGCAGGCGCCGCGTCC
73.72 A	D4	mab214376M	LG2	TGCAGACGTGGGGAGC
73.72 A	Cod	mab2401 6M	LG2	TGCAGCCCGCTCCGCC
73.72 A	Cod	mab5282 6M	LG2	TGCAGTGAAGCGACCT
73.72 A	D4	mab248036M	LG2	TGCAGCGGTACGTGGA
73.72 A	D4	mab226196M	LG2	TGCAGTTTGCTATGGTG
73.72 A	D4	mab173786M	LG2	TGCAGGCTAACAAATCT
73.72 A	Cod	mab307 6M	LG2	TGCAGGAAGTCGTCCAT
73.72 A	D4	mab180606M	LG2	TGCAGCCACCTTTGCCG
73.72 A	D4	mab221126M	LG2	TGCAGCACGGCGTGCA
73.72 A	Cod	mab448 6M	LG2	TGCAGTCGCAATGCCTA
73.72 A	D4	mab200666M	LG2	TGCAGCAAGGTGCATGC
73.72 A	D4	mab226336M	LG2	TGCAGTTGTGGATGCGC
73.72 A	D4	mab242606M	LG2	TGCAGTGGAGCATCGAT
73.72 A	Cod	mab477 6M	LG2	TGCAGGAATCCGCGGG
73.72 A	D4	mab212686M	LG2	TGCAGCATCTAGTCACCC
73.72 A	D4	mab199836M	LG2	TGCAGCGCAACACGTCC
73.72 A	D4	mab213516M	LG2	TGCAGATGCGGCAACGG
73.72 A	Cod	mab5556 6M	LG2	TGCAGGTCAACGATTGG
73.72 A	Cod	mab1655 6M	LG2	TGCAGCGCCGACTACCC
73.72 A	D4	mab211136M	LG2	TGCAGCTCCACTGTCATC
73.72 A	D4	mab212366M	LG2	TGCAGCCCGATTGCTC
73.72 A	D4	mab219066M	LG2	TGCAGCTGGGTGCGCCA
73.72 A	D4	mab192226M	LG2	TGCAGGAATCCGCGGG
73.72 A	D4	mab189806M	LG2	TGCAGTCCCGACTAACAA
73.72 A	D4	mab210036M	LG2	TGCAGGCAACACCTGTC
73.72 A	D4	mab249566M	LG2	TGCAGCCCCGCCTTCGC
73.72 A	Cod	mab874 6M	LG2	TGCAGTCCCGACTAACAA
73.72 A	Cod	mab4806 6M	LG2	TGCAGCCGCTCGGACGA
73.72 A	D5	mab8277 6M	LG2	TGCAGAGGAGGTGGCG
75.52 S	Cod	mab4142 6M	LG2	TGCAGCATCAGCCTCGC
75.52 A	D4	mab184326M	LG2	TGCAGCATCAGCCTCGC
75.52 A	D4	mab183176M	LG2	TGCAGCAGTGC GCGGT
75.52 A	D4	mab276286M	LG2	TGCAGCGAGAGGTGGA
75.52 A	Cod	mab1973 6M	LG2	TGCAGCGCGCCAGTCA
76.19 S	Cod	mab501 6M	LG2	TGCAGCTGGGGCGCGG
76.19 B	Cod	mab456 6M	LG2	TGCAGCACGCCGAGGC
76.19 B	D4	mab192376M	LG2	TGCAGCTGGGGCGCGG
76.19 B	D4	mab210506M	LG2	TGCAGCTTGAACGTGT

76.19 B	D4	mab178716M	LG2	TGCAGTCTTTGGTGGAG
76.19 A	Cod	mab4446 6M	LG2	TGCAGCGAGGCAGAGC
76.19 A	D4	mab213816M	LG2	TGCAGAGTCGTTCTTGC
76.19 A	D4	mab182326M	LG2	TGCAGATGCTGGGACTC
76.19 A	Cod	mab2281 6M	LG2	TGCAGAAGTCGTGTA
76.19 A	D4	mab209646M	LG2	TGCAGGCGCCGCGGGT
76.19 A	D4	mab221896M	LG2	TGCAGAGCAGCACTCAC
76.19 A	Cod	mab309 6M	LG2	TGCAGCTTTGCTGGGCA
76.19 A	Cod	mab1711 6M	LG2	TGCAGCTCTACTACGG
76.19 A	D4	mab202166M	LG2	TGCAGTCTGCATATGTT
76.19 A	D4	mab252516M	LG2	TGCAGACCATGGCCGC
76.19 A	D5	mab6676 6M	LG2	TGCAGATGCTGGGACTC
76.19 AB	D5	mab157786M	LG2	TGCAGCTGGGGCGCGC
76.19 AB	D5	mab151956M	LG2	TGCAGTGTGGAGCTATG
76.19 AB	D5	mab8786 6M	LG2	TGCAGCCGTTGATCCGC
76.19 AB	D5	mab163766M	LG2	TGCAGCGCGCCGAGGC
76.19 AB	D5	mab8315 6M	LG2	TGCAGTAGAAACGGCAC
76.19 A	D4	mab199596M	LG2	TGCAGCGGCGCGTCCC
76.19 A	Cod	mab3070 6M	LG2	TGCAGATGCTGGGACTC
76.19 A	D4	mab235986M	LG2	TGCAGCACGGAGAGAG
76.19 A	D4	mab186776M	LG2	TGCAGCCTCCGAAGAA
76.19 A	D4	mab266056M	LG2	TGCAGTACTGACACGGT
76.19 A	D4	mab242826M	LG2	TGCAGTGCACAGGGTG
76.19 A	D4	mab248756M	LG2	TGCAGCGCCGCCGCC
76.19 A	D5	mab128046M	LG2	TGCAGCTACTAAGTCGT
76.19 A	D4	mab204186M	LG2	TGCAGCATGCAGCCACA
76.19 A	D4	mab191656M	LG2	TGCAGGTCGATACCACC
76.19 A	D4	mab199886M	LG2	TGCAGCGACGTGGGGC
76.19 A	D4	mab188596M	LG2	TGCAGCGTGGGTTGGT
76.19 A	D4	mab169086M	LG2	TGCAGGTGGCGCGCGC
76.19 A	Cod	mab5475 6M	LG2	TGCAGGAAAAGGAGAT
76.19 A	D5	mab8758 6M	LG2	TGCAGGCTTCTACGGTA
76.19 A	D5	mab8760 6M	LG2	TGCAGGCGGAGCGTGT
76.19 AB	D5	mab9252 6M	LG2	TGCAGGGCGGTCCGAG
76.19 AB	D5	mab105426M	LG2	TGCAGCATGCCAGGGCC
76.19 AB	D5	mab127936M	LG2	TGCAGCTCGCCCCTCC
76.19 AB	D5	mab105416M	LG2	TGCAGCATGGGAGGAG
78.44 S	Cod	mab2858 6M	LG2	TGCAGGGACAGGCTGT
78.44 B	D4	mab229826M	LG2	TGCAGGCTCAGTGCATT
78.44 B	D4	mab167896M	LG2	TGCAGCCCAAATATTT
78.44 B	D4	mab253546M	LG2	TGCAGGGACACGCCGT
78.88 S	Cod	mab1392 6M	LG2	TGCAGTAACAGAGTTTG
78.88 B	D4	mab218706M	LG2	TGCAGGACCAGGACGC
78.88 B	D4	mab271456M	LG2	TGCAGGCGCGCCGCGT
78.88 B	D4	mab249336M	LG2	TGCAGCCGCCGTCGCT
79.1 S	Cod	mab4031 6M	LG2	TGCAGAATCCTTTGTT
79.1 B	Cod	mab1496 6M	LG2	TGCAGGTCGGTGCGCC
79.1 B	Cod	mab2473 6M	LG2	TGCAGGGACCACTGG

79.1 A	Cod	mab1607	6M	LG2	TGCAGGGCCGACACTG
79.1 A	Cod	mab4256	6M	LG2	TGCAGCTTCGGGTGTGC
79.1 A	D5	mab158396M		LG2	TGCAGGCTCAGTGCAGC
79.1 A	Cod	mab4086	6M	LG2	TGCAGGACATAGTCGTG
79.1 A	Cod	mab2608	6M	LG2	TGCAGCGCGTCGGCCC
79.1 A	Cod	mab5493	6M	LG2	TGCAGATCTGGTAGCAA
79.1 A	D5	mab127666M		LG2	TGCAGGAGCACGCCGT
79.1 AB	D5	mab164396M		LG2	TGCAGGACATAGTTGTG
79.1 AB	D5	mab129196M		LG2	TGCAGAAGCTGCTGCAC
79.1 AB	D5	mab8076	6M	LG2	TGCAGCAGCGGCAGCA
79.1 A	D5	mab106606M		LG2	TGCAGTAACAGAGTTTG
79.1 A	D5	mab139836M		LG2	TGCAGAGGAGGCGCGC
79.1 AB	D5	mab7730	6M	LG2	TGCAGCTGTGTTGCTGC
79.1 AB	D5	mab9263	6M	LG2	TGCAGCTCGCGCCACC
79.1 AB	D5	mab8754	6M	LG2	TGCAGGGGGAGACGAG
79.1 AB	D5	mab8756	6M	LG2	TGCAGGGGCACTCATT
79.1 AB	D5	mab8062	6M	LG2	TGCAGCCCTCCGACGG
79.1 AB	D5	mab127566M		LG2	TGCAGGCCGCGCGAGT
79.1 AB	D5	mab113906M		LG2	TGCAGCACGCGCGGGA
79.1 AB	D5	mab127696M		LG2	TGCAGGAGATCTGTACA
79.1 AB	D5	mab7321	6M	LG2	TGCAGAGGTGACGGATC
79.1 AB	D5	mab9577	6M	LG2	TGCAGGCGTTGTCGTCG
79.1 AB	D5	mab7258	6M	LG2	TGCAGTGGTGCTGTACC
79.1 AB	D5	mab6138	6M	LG2	TGCAGGGACAGGCTGT
79.1 AB	D5	mab9695	6M	LG2	TGCAGCAGTATAGCGTG
79.1 AB	D5	mab9675	6M	LG2	TGCAGCCTCTCTCTCT
80.44 S	Cod	mab3667	6M	LG2	TGCAGAGACGCGTACGT
80.44 B	D4	mab191246M		LG2	TGCAGTGTACAATAGGC
80.44 B	D4	mab279176M		LG2	TGCAGCACCGAGATGTT
80.44 A	D5	mab149906M		LG2	TGCAGCAGCGAAAGTTT
80.44 A	D4	mab193286M		LG2	TGCAGCAGCAGCCTCGC
80.44 A	D5	mab9665	6M	LG2	TGCAGCTCTGAAGGCGC
80.44 A	D5	mab128836M		LG2	TGCAGATACAGAGGAAC
80.44 AB	D5	mab142696M		LG2	TGCAGTCGCAGCCGACA
80.44 AB	D5	mab163726M		LG2	TGCAGACCGAGCAGGC
80.44 AB	D5	mab114306M		LG2	TGCAGACTCACCGGAC
80.44 A	Cod	mab3071	6M	LG2	TGCAGTACAGGAACCA
80.44 A	D5	mab9649	6M	LG2	TGCAGGAGCATCTGGGA
80.44 A	D4	mab242716M		LG2	TGCAGTGCCTGCTGCG
82.01 S	Cod	mab1246	6M	LG2	TGCAGGTTGCCCTAACA
82.01 B	D4	mab233846M		LG2	TGCAGCCTTTGCTTCCA
82.01 B	D4	mab222326M		LG2	TGCAGCCTGGCGTGCA
82.01 A	D4	mab267456M		LG2	TGCAGGTGCTCCCGAC
82.01 A	Cod	mab3526	6M	LG2	TGCAGCCCCTCGCGGC
82.01 AB	Cod	mab235186M		LG2	TGCAGCATTTTACAAGC
82.01 AB	Cod	mab193026M		LG2	TGCAGCCCCTCGCGGC
82.01 A	Cod	mab3207	6M	LG2	TGCAGGTTGCGATGCCA
82.01 AB	Cod	mab268376M		LG2	TGCAGGTCGAGGAGATC

82.01 A	D5	mab113656M	LG2	TGCAGCATTGTGCGTCG
82.01 AB	D5	mab127786M	LG2	TGCAGGAACGAACAGAC
82.01 AB	D5	mab113206M	LG2	TGCAGCGGGCGGGCGG
82.01 A	D4	mab213356M	LG2	TGCAGCAAACCGTCTTG
82.01 A	D4	mab167406M	LG2	TGCAGTCAGCGGCAGCC
82.01 A	Cod	mab3210 6M	LG2	TGCAGCGGGCGATGTG
82.01 A	D4	mab280126M	LG2	TGCAGAAAATGATAGGT
82.01 A	D5	mab111996M	LG2	TGCAGTCGCGGAAGG
82.01 A	D4	mab212926M	LG2	TGCAGCAGCATTGTCCG
82.01 A	D4	mab272186M	LG2	TGCAGAATATATGCTGC
82.01 A	Cod	mab369 6M	LG2	TGCAGGACGATGGACTT
82.01 A	D4	mab270316M	LG2	TGCAGCGGGTGTTGTG
82.01 A	D4	mab214776M	LG2	TGCAGAAGACCCGAGCC
82.01 A	Cod	mab270 6M	LG2	TGCAGCTCATCACGAAC
82.01 A	D4	mab186146M	LG2	TGCAGTCGACGGGAAG
82.01 A	D5	mab112096M	LG2	TGCAGTAGGACGTTGTG
82.01 AB	D5	mab114166M	LG2	TGCAGAGTGGGACTCTA
82.01 A	Cod	mab3166 6M	LG2	TGCAGCGGGCGATGTG
82.01 A	D5	mab103866M	LG2	TGCAGAGCAGTGCAGG
82.01 A	D4	mab230386M	LG2	TGCAGGCCAGATCCGCC
82.01 A	D5	mab113736M	LG2	TGCAGCAGGTCAGCAGT
82.01 A	D5	mab9353 6M	LG2	TGCAGGGGAGGAGATG
82.01 A	D5	mab114526M	LG2	TGCAGAAATCAACTTCT
82.01 A	Cod	mab5388 6M	LG2	TGCAGAGGCTCCTGCTC
82.01 AB	Cod	mab189376M	LG2	TGCAGAGACTAGTGACT
82.01 AB	Cod	mab277856M	LG2	TGCAGCCGCCGTCGCC
82.01 A	D4	mab190046M	LG2	TGCAGGCGCGGCGCA
82.01 A	D5	mab113976M	LG2	TGCAGCACAAAGCTCATC
82.01 A	D4	mab228396M	LG2	TGCAGGTGGCTGGCGC
82.01 A	D4	mab199226M	LG2	TGCAGCTGCCTGAGCC
82.01 A	D4	mab236196M	LG2	TGCAGCACAAATGCCATC
82.01 A	D4	mab202236M	LG2	TGCAGTCCCGTGCCGT
82.01 A	D5	mab129266M	LG2	TGCAGAAAATGATAGGT
82.01 A	D5	mab140686M	LG2	TGCAGCAAAGGCACGC
82.01 AB	D5	mab152176M	LG2	TGCAGCTAGCTCATTCT
82.01 A	Cod	mab3041 6M	LG2	TGCAGAAGACCCACGG
82.01 A	D4	mab231676M	LG2	TGCAGCTTCATCAGCCG
82.01 A	Cod	mab776-1 6M	LG2	TGCAGTCCCTCGACGGC
82.01 A	D5	mab8694 6M	LG2	TGCAGCACAAACAGGCA
82.01 AB	D5	mab158146M	LG2	TGCAGAGGAGAAGTGAT
82.01 AB	D5	mab113416M	LG2	TGCAGCCTTTGCTTCCA
82.01 AB	D5	mab154146M	LG2	TGCAGCGGGCGATGTG
82.01 AB	D5	mab112026M	LG2	TGCAGTCCCGTTGTTG
82.01 AB	D5	mab128216M	LG2	TGCAGCGGCAGTGCCAT
82.01 AB	D5	mab127636M	LG2	TGCAGGAGCGGGCAT
82.01 AB	D5	mab104716M	LG2	TGCAGTGCCAGTTGAT
82.01 AB	D5	mab9274 6M	LG2	TGCAGCCTCGCGTCAA
82.01 A	Cod	mab4801 6M	LG2	TGCAGAACCACCTTACA

82.01 A	Cod	mab1666 6M	LG2	TGCAGGAGCACTCACTT
82.01 A	D5	mab159676M	LG2	TGCAGGGAAATGCCGA
82.01 A	D5	mab8270 6M	LG2	TGCAGCCTGGCATACTG
82.01 A	D4	mab251726M	LG2	TGCAGAGGTGGCTCGG
82.01 A	Cod	mab1457 6M	LG2	TGCAGGCGAGCATGTAG
82.01 A	D4	mab193816M	LG2	TGCAGACCAAACACACA
82.01 A	Cod	mab1826 6M	LG2	TGCAGAGCAGTGCAGG
82.01 A	D5	mab105556M	LG2	TGCAGCACAAAGCTCCCG
82.01 A	D5	mab6605 6M	LG2	TGCAGAAGACCCACGG
82.01 A	Cod	mab1453 6M	LG2	TGCAGCCCAGCGGCGC
82.01 A	D4	mab193126M	LG2	TGCAGCCAGTTGCGCTC
82.01 A	D4	mab218856M	LG2	TGCAGGAACGAACAGAC
89.95 S	Cod	mab310 6M	LG2	TGCAGCTCAACTCTAGC
89.95 B	D5	mab9673 6M	LG2	TGCAGCGACGCGGGCA
89.95 B	D5	mab127116M	LG2	TGCAGTAATACGGGGCT
89.95 A	D4	mab203386M	LG2	TGCAGCTGCCGAGCAT
89.95 A	D4	mab209006M	LG2	TGCAGGTACGGTGGATT
90.84 S	Cod	mab2221 6M	LG2	TGCAGCTGCCGAGCAT
90.84 B	D5	mab142676M	LG2	TGCAGTCGGATTCCGAT
90.84 B	D5	mab112406M	LG2	TGCAGGGGATCATGCC
90.84 B	D5	mab9191 6M	LG2	TGCAGATCAAGCAGAGA
90.84 B	D5	mab8938 6M	LG2	TGCAGGCCGTGAGCACC
90.84 A	D5	mab105776M	LG2	TGCAGACGAGATCTCCT
90.84 A	D5	mab127596M	LG2	TGCAGGCAGCTAGAGCC
90.84 A	D5	mab8745 6M	LG2	TGCAGTGCACCGTGTTT
90.84 A	D5	mab9260 6M	LG2	TGCAGCTTCTGCATGCA
90.84 AB	D5	mab128486M	LG2	TGCAGCCAACTTGTATCC
90.84 A	D5	mab9421 6M	LG2	TGCAGCTGCCACGGCAT
90.84 A	D5	mab114046M	LG2	TGCAGCAAAGCAAGGA
90.84 A	D5	mab127576M	LG2	TGCAGGCCACAGCTCCCG
90.84 A	D5	mab8763 6M	LG2	TGCAGGCCCCCTTTTC
90.84 A	D5	mab126676M	LG2	TGCAGTTTTTGCAGCAG
92.64 S	Cod	mab4024 6M	LG2	TGCAGCGCGGACCAAA
92.64 B	D4	mab238406M	LG2	TGCAGAAGCGGCCAAG
92.64 B	D5	mab104686M	LG2	TGCAGTTGAAAATCACG
92.64 A	D4	mab245656M	LG2	TGCAGGCCACCGTCACC
92.64 A	D4	mab245416M	LG2	TGCAGGCGCCATGCGC
92.64 A	D4	mab185296M	LG2	TGCAGCGTCAGTTGCAC
92.64 A	D4	mab228026M	LG2	TGCAGTACACTCCCAGT
93.98 S	Cod	mab889 6M	LG2	TGCAGGGTTGGGTTGCC
95.1 S	Cod	mab3905 6M	LG2	TGCAGGTCGTCAACCTG
95.1 A	Cod	mab452 6M	LG2	TGCAGCTTCTGCGGCT
95.1 A	D5	mab9708 6M	LG2	TGCAGATTCTCCTACGC
95.1 AB	D5	mab128986M	LG2	TGCAGACTTCTACGAGG
95.1 AB	D5	mab9640 6M	LG2	TGCAGGCCGTGCGCGTT
95.1 AB	D5	mab7672 6M	LG2	TGCAGAGAAGGTAGGTC
95.1 AB	D5	mab113636M	LG2	TGCAGCCACGACATCTC
95.1 AB	D5	mab112516M	LG2	TGCAGGCTGCTCCAGCT

95.1 AB	D5	mab113236M	LG2	TGCAGCGGCTAAATGAA
95.54 S	Cod	mab853 6M	LG2	TGCAGCGGCGGGGCGG
95.54 B	D4	mab272606M	LG2	TGCAGCGCCAACCTCCAG
95.54 B	D4	mab251636M	LG2	TGCAGATAAACTATGCTC
95.54 B	D4	mab248156M	LG2	TGCAGCGGTTGCTGCCT
95.54 B	D4	mab180486M	LG2	TGCAGCGGCGGGGCGG
95.54 B	D4	mab254166M	LG2	TGCAGCTCAAGAAGGTA
95.54 B	D4	mab211666M	LG2	TGCAGCGCTGGCGCTC
95.54 B	D4	mab233006M	LG2	TGCAGCGGGCGGCGCGG
95.54 B	D5	mab156646M	LG2	TGCAGCGGCGGGGCGG
95.54 A	D4	mab191506M	LG2	TGCAGGTTGCTCGACGT
95.54 A	D4	mab203426M	LG2	TGCAGCTGATCACATCC
95.54 A	D4	mab173836M	LG2	TGCAGCCACGACATCTC
95.54 A	D4	mab252186M	LG2	TGCAGAGAAGGTACGTA
95.54 A	D4	mab228316M	LG2	TGCAGGTTAAGAGGAGA
95.54 A	D4	mab265636M	LG2	TGCAGCGGCGGCGCGG
95.54 A	D4	mab264206M	LG2	TGCAGCAGCGGCTCGG
97.56 S	Cod	mab4204 6M	LG2	TGCAGCACCGTCCGAAT
97.56 A	D5	mab9035 6M	LG2	TGCAGCGTGTGCGGC
97.56 A	D5	mab7575 6M	LG2	TGCAGGTCGGGGATGT
97.56 A	Cod	mab4272 6M	LG2	TGCAGCGTGTGCGGC
100.51 S	Cod	mab696 6M	LG2	TGCAGCCAAGCACAAAGT
100.51 A	D5	mab160226M	LG2	TGCAGTGCAGGAGCGGA
100.51 A	D4	mab219236M	LG2	TGCAGCTGCATAAGGTA
100.51 A	D5	mab112706M	LG2	TGCAGGATGGATCGCCA
100.51 A	D5	mab153996M	LG2	TGCAGCTCCATAAGGTA
105.8 S	Cod	mab5162 6M	LG2	TGCAGGCAGGCCGGCT
105.8 A	D5	mab8361 6M	LG2	TGCAGGCAGGCCGGCT
105.8 A	D5	mab8769 6M	LG2	TGCAGGACATGCACATT
105.8 A	D5	mab9686 6M	LG2	TGCAGCCCAACTGGGAC
106.69 S	Cod	mab3701 6M	LG2	TGCAGCAGCAGGTGCA
106.69 A	D4	mab197106M	LG2	TGCAGTTGGAGAAGAAA
106.69 A	D4	mab217226M	LG2	TGCAGTCCATGGGGAT
106.69 A	D4	mab198636M	LG2	TGCAGGCCCGCGCCGC
106.69 A	D4	mab183606M	LG2	TGCAGAAAACAAGTAAT
106.69 A	D4	mab266776M	LG2	TGCAGATCCTGCTCGAG
106.69 A	D4	mab202076M	LG2	TGCAGTGCAGGAGCTG
106.69 A	D4	mab266046M	LG2	TGCAGTAGCAGCAGCAC
106.69 A	D4	mab234146M	LG2	TGCAGCCTCAACGGAAC
109.17 S	Cod	mab5508 6M	LG2	TGCAGCACTTCGACAGG
109.17 B	D5	mab126926M	LG2	TGCAGTCTCGGTTGCT
109.17 A	Cod	mab3644 6M	LG2	TGCAGCTCACAGAAGTG
109.17 AB	Cod	mab173846M	LG2	TGCAGCCACGCGCGCA
109.17 A	D4	mab184356M	LG2	TGCAGCACTTCGACAGG
110.51 S	Cod	mab337 6M	LG2	TGCAGCCACCGGACAT
110.51 A	D4	mab198306M	LG2	TGCAGGGCTGATTAACA
110.51 A	D4	mab208366M	LG2	TGCAGTATTCTGGCAAC
110.51 A	D4	mab214346M	LG2	TGCAGACTCGATCGCTC

110.51 A	D4	mab228486M	LG2	TGCAGGTGCGACGAAA
110.51 A	D4	mab238596M	LG2	TGCAGAACCCAGCGATC
110.51 A	D4	mab208096M	LG2	TGCAGTCTTGACACGAA
110.51 A	D5	mab9259 6M	LG2	TGCAGCTTGACCACAAC
110.51 A	Cod	mab2218 6M	LG2	TGCAGCGGCACGTGGAT
110.51 A	D4	mab213236M	LG2	TGCAGCAATCCCCAGCT
110.51 A	Cod	mab3236 6M	LG2	TGCAGGTGGGCATTTC
110.51 A	D4	mab242296M	LG2	TGCAGTTCGCGGTGCC
110.51 A	Cod	mab2078 6M	LG2	TGCAGTTCGCGGTGCC
110.51 A	D4	mab174266M	LG2	TGCAGACGTCTGCGCAC
110.51 A	D5	mab8267 6M	LG2	TGCAGCTGCAAGCTCTC
110.51 A	Cod	mab5749 6M	LG2	TGCAGGGGCTTGAGAA
110.51 A	D4	mab232976M	LG2	TGCAGCGGGCAGTGG
110.51 A	Cod	mab2078 6M	LG2	TGCAGTTCGCGGTGCC
110.51 AB	Cod	mab128916M	LG2	TGCAGAGGATGACCGCT
110.51 AB	Cod	mab9253 6M	LG2	TGCAGGCTTCTCCGTCC
110.51 AB	Cod	mab150146M	LG2	TGCAGCCCCGTGCCTCC
110.51 AB	Cod	mab8764 6M	LG2	TGCAGGCAGGCAATGG
110.51 AB	Cod	mab105006M	LG2	TGCAGGCAGGCAATGG
110.51 AB	Cod	mab114276M	LG2	TGCAGAGAGGATTGAGT
110.51 AB	Cod	mab5959 6M	LG2	TGCAGGTCGACGGCCG
110.51 A	D4	mab191516M	LG2	TGCAGGTTCCGCTCCGA
115.33 S	Cod	mab3074 6M	LG2	TGCAGGCGGTCCATCTG
115.33 B	D5	mab111876M	LG2	TGCAGTGTGGTACTCCA
115.33 B	D5	mab128036M	LG2	TGCAGCTAGCACATCGC
115.33 B	D5	mab9703 6M	LG2	TGCAGCACAGGACCAAC
115.33 B	D5	mab112716M	LG2	TGCAGGATGAAACTGCC
115.33 A	D5	mab6683 6M	LG2	TGCAGAAATAACCACCG
115.33 A	D4	mab208896M	LG2	TGCAGGTCCTCCAGCT
115.33 A	D4	mab195506M	LG2	TGCAGCAGATAGAGGAC
115.33 A	D5	mab128446M	LG2	TGCAGCCACGTAGTAGT
115.33 A	D4	mab203616M	LG2	TGCAGCGGATGCTTGCA
115.33 A	D4	mab226816M	LG2	TGCAGTGTACGCCAGTC
115.33 A	D4	mab210676M	LG2	TGCAGCTGGCGGGCTTC
115.33 A	D4	mab174276M	LG2	TGCAGCAAGAACTTACG
115.33 A	D4	mab188816M	LG2	TGCAGCCACATCCACTG
115.33 A	D4	mab242326M	LG2	TGCAGTCCCACCA
115.33 A	Cod	mab5335 6M	LG2	TGCAGGGAECTCCGAGC
115.33 A	D4	mab197226M	LG2	TGCAGTGTGTTTGACGC
115.33 A	D4	mab248876M	LG2	TGCAGCGAGTCTTGAGC
115.33 A	Cod	mab5362 6M	LG2	TGCAGCGGTTGCTTGCA
115.33 A	D4	mab214496M	LG2	TGCAGACCTTGCCTGGC
115.33 A	D4	mab238716M	LG2	TGCAGAAATAACCACCG
115.33 A	Cod	mab4866 6M	LG2	TGCAGAGCAGCGCGTCC
115.33 A	D4	mab265506M	LG2	TGCAGGGATGGACAGG
115.33 A	Cod	mab4998 6M	LG2	TGCAGCTCCCGGCGGC
115.33 A	D4	mab249986M	LG2	TGCAGCCAAAAAATC
115.33 A	D4	mab220216M	LG2	TGCAGCCGTTAGACGCA

115.33 A	Cod	mab1760 6M	LG2	TGCAGAAATCAGCAAGC
115.33 A	D4	mab174296M	LG2	TGCAGCCGCGACCACG
115.33 A	D4	mab234176M	LG2	TGCAGCCGTTTCGACCC
115.33 A	D4	mab231706M	LG2	TGCAGCTTAACCCCTCTG
116.91 S	Cod	mab491 6M	LG2	TGCAGAGTCTCACTGTCT
116.91 A	D4	mab279556M	LG2	TGCAGTCTGTGGTTTGA
116.91 A	D4	mab246336M	LG2	TGCAGGAGAGGCAGGC
116.91 A	D4	mab174306M	LG2	TGCAGCCAAGAAGATCC
116.91 A	D4	mab250296M	LG2	TGCAGCAGGGGATATGA
116.91 A	D4	mab276456M	LG2	TGCAGTTCAGGGGAGCC
116.91 A	Cod	mab311 6M	LG2	TGCAGTCTTGTTCCGGATC
116.91 A	D4	mab216606M	LG2	TGCAGTTCAAATTGGCA
116.91 A	D4	mab219856M	LG2	TGCAGCGCCTCTCTCCT
116.91 A	D5	mab111326M	LG2	TGCAGGCGATAGCTTAG
116.91 A	D4	mab187866M	LG2	TGCAGGGAGACAAAAA
116.91 A	D4	mab176646M	LG2	TGCAGTTTCCGAGTATTC
116.91 A	D4	mab275986M	LG2	TGCAGACCCTGCTGGG
116.91 A	D4	mab232186M	LG2	TGCAGCTCTCGCCCCG
116.91 A	D4	mab197036M	LG2	TGCAGTTTGAGACGGCT
116.91 A	D4	mab168386M	LG2	TGCAGACCAATTCGTCT
116.91 A	D5	mab128116M	LG2	TGCAGCGTGGCTCAGGC
116.91 A	D4	mab243856M	LG2	TGCAGGTGTTCCGGCGAA
121.77 S	Cod	mab5549 6M	LG2	TGCAGCAGCGCGTGGAA
121.77 A	D4	mab230506M	LG2	TGCAGGCAGCAGAGATC
121.77 A	D4	mab182886M	LG2	TGCAGGACGACAAGCTC
121.77 A	D4	mab237526M	LG2	TGCAGAGATGTTGCCTC
121.77 A	D4	mab228326M	LG2	TGCAGGTGTTCCGGTGA
121.77 A	D4	mab227096M	LG2	TGCAGTGCCTGTGGATC
121.77 A	D4	mab174316M	LG2	TGCAGTTTGGTCTGGTA
121.77 A	D5	mab112226M	LG2	TGCAGGTGTTCTCACTC
123.57 S	Cod	mab5440 6M	LG2	TGCAGATGCTAATTGAC
123.57 A	D4	mab198256M	LG2	TGCAGGGGCGGAGGAG
123.57 A	D4	mab244996M	LG2	TGCAGGGACTGCTGCG
123.57 A	D4	mab264446M	LG2	TGCAGGCGCTGCGGAC
123.57 A	D4	mab258326M	LG2	TGCAGCTGCAACACATA
123.57 A	D4	mab275376M	LG2	TGCAGTCTGGGATCGAA
123.57 A	D5	mab8553 6M	LG2	TGCAGTGGCCGACGGG
123.57 A	D4	mab220766M	LG2	TGCAGCATACTGTCAGC
123.57 A	D4	mab188646M	LG2	TGCAGCCGTGGTCTTGC
123.57 A	D5	mab162936M	LG2	TGCAGCCGTGGTCTTGC
123.57 AB	D5	mab9692 6M	LG2	TGCAGCATATATAACCT
123.57 A	D5	mab114316M	LG2	TGCAGACTAATGCAATG
125.14 S	Cod	mab312 6M	LG2	TGCAGTTAGGGCATCTTC
126.71 S	Cod	mab3480 6M	LG2	TGCAGGGGCGCGTGGAA
126.71 A	D4	mab184546M	LG2	TGCAGGGGCGCGTGGAA
126.71 A	Cod	mab1108 6M	LG2	TGCAGGCCTAGCTGTGT
126.71 A	D4	mab228266M	LG2	TGCAGGTTTCATCGTTTTC
130.15 S	Cod	mab800 6M	LG2	TGCAGGACGCGGTGCTC

130.15 B	D4	mab174386M	LG2	TGCAGGGCCGCCATTGT
130.15 B	D4	mab191676M	LG2	TGCAGGTGGAACCTTGCG
130.15 B	D4	mab193526M	LG2	TGCAGATGCCAGTAGA
130.15 B	D4	mab193456M	LG2	TGCAGCAACAACCCACA
130.15 B	D4	mab245206M	LG2	TGCAGGCTCCCCGCGTC
130.15 A	Cod	mab287 6M	LG2	TGCAGCTTGTGTGTGTG
130.15 A	D5	mab127046M	LG2	TGCAGTACTCGCTCGCG
130.15 A	D5	mab9661 6M	LG2	TGCAGCTGCTGCACCGC
130.15 A	D5	mab113156M	LG2	TGCAGCGTGGAGGCGA
130.15 A	D5	mab8323 6M	LG2	TGCAGGTGGAACCTTGCG
130.15 AB	D5	mab155126M	LG2	TGCAGAAGTCCAAGAAT
130.15 A	Cod	mab3894 6M	LG2	TGCAGGTGGAACCTTGCG
132.42 S	Cod	mab686 6M	LG2	TGCAGCAGCAGAGGCA
132.42 B	D4	mab173356M	LG2	TGCAGGGCATCAGCAGC
132.42 B	D5	mab128296M	LG2	TGCAGCGCCGCCATTAT
132.42 B	Cod	mab3529 6M	LG2	TGCAGAGCATCAGCCGC
132.42 B	D5	mab159126M	LG2	TGCAGGTCTCCCTTCTC
132.42 B	D5	mab105576M	LG2	TGCAGCAACAAGCCAA
132.42 B	D5	mab163216M	LG2	TGCAGCAACAACCCACA
132.42 B	D5	mab158226M	LG2	TGCAGAGCATCAGCCGC
132.42 B	D5	mab127336M	LG2	TGCAGGGCTCTCGCTTT
132.42 A	D5	mab105526M	LG2	TGCAGCACGGCACAAG
132.42 A	D4	mab247766M	LG2	TGCAGCTCAATCGAGTTA
132.42 A	D5	mab112136M	LG2	TGCAGTAAATAAAGTACC
132.42 A	D4	mab252786M	LG2	TGCAGAAGCGTTGATGC
132.42 A	D5	mab7548 6M	LG2	TGCAGCCTCCACAAGGA
132.42 A	D5	mab128546M	LG2	TGCAGCAGGCCCGTCTC
132.42 A	D5	mab6609 6M	LG2	TGCAGCGACAAGCAGAT
132.42 A	D5	mab105316M	LG2	TGCAGCGCTTCATCGCT
132.42 AB	D5	mab160206M	LG2	TGCAGCAGAGCATGGAC
132.42 A	D4	mab201276M	LG2	TGCAGAAAGTAAGCTAC
132.42 A	D5	mab127376M	LG2	TGCAGGGAGGGAGGGG
132.42 A	D5	mab9244 6M	LG2	TGCAGTGACCGCAAGGT
132.42 A	D5	mab128936M	LG2	TGCAGAGGAACTGACA
132.42 A	Cod	mab5246 6M	LG2	TGCAGTGCTCCTGCACC
132.42 A	D5	mab113056M	LG2	TGCAGCTCTTGTCTGCT
132.42 A	D5	mab8733 6M	LG2	TGCAGGCCACTGCTCCA
137.47 S	Cod	mab1100 6M	LG2	TGCAGCCCGCACCTGGT
137.47 A	D4	mab174346M	LG2	TGCAGCGCCGCCAGGC
137.47 A	Cod	mab1100 6M	LG2	TGCAGCCCGCACCTGGT
137.47 AB	Cod	mab113086M	LG2	TGCAGCTCTCGGCAGCA
137.47 A	D5	mab9726 6M	LG2	TGCAGACCAATTGCTAA
137.47 A	D5	mab155966M	LG2	TGCAGCACGTGACCAA
141.17 S	Cod	mab1067 6M	LG2	TGCAGCACCGCCAAGCC
141.17 A	D4	mab193356M	LG2	TGCAGCACCGCCAAGCC
141.17 A	D5	mab6610 6M	LG2	TGCAGCGCCGCTAGCCA
143 S	Cod	mab4714 6M	LG2	TGCAGCTGCGACCGTCC
144.14 S	Cod	mab1198 6M	LG2	TGCAGGGCGCGATGGA

144.14 B	D4	mab191846M	LG2	TGCAGGGCGCGATGGA
144.14 A	D4	mab249306M	LG2	TGCAGCCGCGAGATCGA
144.14 A	D4	mab278026M	LG2	TGCAGCTGGTAAATTCC
144.14 A	D4	mab221276M	LG2	TGCAGCAAGGAGTGCC
144.14 A	D5	mab8341 6M	LG2	TGCAGTGCACGATGGAA
144.14 A	D4	mab266436M	LG2	TGCAGGGGGCGGGGTG
146.64 S	Cod	mab3075 6M	LG2	TGCAGCAGGCACAGATC
146.64 B	D5	mab160946M	LG2	TGCAGCCTCCCGCCCT
146.64 A	D4	mab178316M	LG2	TGCAGTGCCTTTTAC
146.64 A	D4	mab244036M	LG2	TGCAGGTGCTTCAAGTG
146.64 A	D5	mab114256M	LG2	TGCAGAGATGACAAAAA
146.64 A	D4	mab246586M	LG2	TGCAGGACAAAGTTACT
146.64 A	D4	mab238696M	LG2	TGCAGAAATGCATAGCT
148.01 S	Cod	mab2049 6M	LG2	TGCAGAGGCAGCTGCC
148.01 A	D4	mab177256M	LG2	TGCAGTTCGCCACGAAA
148.01 A	D5	mab7921 6M	LG2	TGCAGTGCACACGAGGA
149.61 S	Cod	mab3871 6M	LG2	TGCAGCGCACAGAGCAA
149.61 B	D4	mab188546M	LG2	TGCAGCGCACAGATCAA
149.61 B	D4	mab228916M	LG2	TGCAGGTACGTATCAAG

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LG10

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59.17 A	D5	mab14105	6U	LG10
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59.17 A	Cod	mab5465	6U	LG10
59.17 A	D4	mab19520	6U	LG10
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LG12

cM		Marker	Kr.	Kapcsoltsági csoport (LG)	Marker szekvencia
	0 S	Cod	mab5251 6U	LG12	TGCAGAGAGAAGGGGGA
	0 A	D5	mab102766U	LG12	TGCAGGTGCCTAGGAGGC
	0 AB	D5	mab118096U	LG12	TGCAGATCGTGTCCCAAGC
	0 AB	D5	mab8409 6U	LG12	TGCAGAAACAGGCCCGAA
	0 AB	D5	mab8498 6U	LG12	TGCAGCTTGTCTAGCCGC
	0 AB	D5	mab160696U	LG12	TGCAGGGATAAAATATGAA
	0 AB	D5	mab140986U	LG12	TGCAGTGGCGACGCATGG
	0 AB	D5	mab141406U	LG12	TGCAGTGCAGCTCCGCC
	0 AB	D5	mab7836 6U	LG12	TGCAGTTGGCAGTTGGTAC
	0 AB	D5	mab120976U	LG12	TGCAGTGGGGCGACCAAA
	0.67 S	Cod	mab4684 6U	LG12	TGCAGTGCACCTCCATTGA
	0.67 A	D4	mab262786U	LG12	TGCAGCGCATCCAGGAAG
	0.67 A	D4	mab185516U	LG12	TGCAGGAGTTGCATCCCTC
	0.67 A	D4	mab189606U	LG12	TGCAGCGGCTCGCAACTA
	0.67 A	D4	mab206856U	LG12	TGCAGAATTGCCCGACA
	0.67 A	D4	mab278226U	LG12	TGCAGCCGCGACTTGTGC
	0.67 A	Cod	mab5738 6U	LG12	TGCAGGGGAGCCTTGGC
	0.67 A	D4	mab271416U	LG12	TGCAGCAACTTCGACTTCA
	0.67 A	D4	mab239696U	LG12	TGCAGCCCGCGCGCAGC
	0.67 A	Cod	mab5139 6U	LG12	TGCAGAATGAGTTCTCGAG
	0.67 A	Cod	mab1808 6U	LG12	TGCAGATCAGGCTCAGTAC
	0.67 A	D4	mab223726U	LG12	TGCAGCACCGCGGAACA
	0.67 A	Cod	mab1868 6U	LG12	TGCAGTTTTCAATTCAAACT
	0.67 AB	Cod	mab9331 6U	LG12	TGCAGGCGCAGAGGAGCA
	0.67 A	Cod	mab2490 6U	LG12	TGCAGCCCAAAGTCGCCAT
	0.67 A	D4	mab180176U	LG12	TGCAGTAAGGCCAACTCC
	0.67 A	D4	mab225166U	LG12	TGCAGATCAGCTCCAACGA
	0.67 A	D4	mab205586U	LG12	TGCAGCCAAAATGGTCTA
	0.67 A	D4	mab201476U	LG12	TGCAGTAACTGCTACTCCT
	0.67 A	D4	mab269256U	LG12	TGCAGCAGTACTTGCCAA
	0.67 A	D4	mab165796U	LG12	TGCAGCATCCCAAAGTCGC
	1.34 S	Cod	mab4172 6U	LG12	TGCAGGCACCGAGTTGGC
	1.34 B	Cod	mab4731 6U	LG12	TGCAGCTCAAACAATGAAA
	1.34 A	D4	mab184296U	LG12	TGCAGGCCTTGGTTAATAC
	1.34 A	D4	mab226056U	LG12	TGCAGAGCACTATGCCATT
	1.34 A	D4	mab225556U	LG12	TGCAGAGGCGCCGCTTCG
	1.34 A	D4	mab225546U	LG12	TGCAGAGGCGTTTCGATCG
	1.34 A	D5	mab143156U	LG12	TGCAGGTGCTGGCCATCC
	1.34 A	D4	mab280496U	LG12	TGCAGACTTTGTGGTTGGC
	1.34 A	Cod	mab4692 6U	LG12	TGCAGTACTGCTCCTCGCT
	1.34 A	D4	mab262676U	LG12	TGCAGCTTGCAGGAGCCG
	1.34 A	Cod	mab1984 6U	LG12	TGCAGCACGTCTCTCCTT
	1.34 AB	Cod	mab8130 6U	LG12	TGCAGGTCTCGGGTTCGAT
	1.34 A	Cod	mab209 6U	LG12	TGCAGGAGGCGCGCTGT

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1.34 A	D4	mab164966U	LG12	TGCAGCCGCGTGCAGGTA
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1.34 AB	Cod	mab115256U	LG12	TGCAGTGAGCCGCTCTGC
1.34 A	D5	mab9437 6U	LG12	TGCAGCAAGTACACGCAC
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1.34 A	D4	mab267556U	LG12	TGCAGTCTTGCTACAGCAA
2.93 S	Cod	mab5367 6U	LG12	TGCAGCTTAACTGAGATCG
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4.29 AB	Cod	mab149206U	LG12	TGCAGCGCAATTTAGGTA
8.16 S	Cod	mab4028 6U	LG12	TGCAGCTGCCGGCATCGC
8.16 A	Cod	mab1575 6U	LG12	TGCAGTCGTGGGCGTGG
8.16 A	Cod	mab4012 6U	LG12	TGCAGTGCATAATAGGCAA
8.16 AB	Cod	mab176366U	LG12	TGCAGAAACTGGGTTTGG
8.16 A	D5	mab7899 6U	LG12	TGCAGCTTGCCATCCTCGC
8.16 A	D4	mab257136U	LG12	TGCAGGGTCTTTTCGAGCC
8.16 A	D4	mab223916U	LG12	TGCAGCACAACTCCTCCGC
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8.16 A	D5	mab119666U	LG12	TGCAGGAATTGGTCGTGG
8.16 A	Cod	mab613 6U	LG12	TGCAGCTCTCGCGGCCCC
13.21 S	Cod	mab4468 6U	LG12	TGCAGCACCGCCGTCTCA
13.43 S	Cod	mab4971 6U	LG12	TGCAGATTGTAATTTATGC
13.43 A	D4	mab240956U	LG12	TGCAGCAAAACAAAAACA
13.43 A	D4	mab262036U	LG12	TGCAGCAGACACCCAAT
15.49 S	Cod	mab839 6U	LG12	TGCAGGTGCGTCTGACAA
15.49 B	D5	mab8016 6U	LG12	TGCAGTAGGGTGTATCCCC
15.49 B	D5	mab102466U	LG12	TGCAGTCGCAGCAGCTTG
15.49 A	Cod	mab5520 6U	LG12	TGCAGGAGGTCAGTTGGC
15.49 A	D4	mab188866U	LG12	TGCAGCTACCGCCATCGG
17.51 S	Cod	mab3730 6U	LG12	TGCAGGTGTCGCACCCGA
17.51 A	D4	mab225736U	LG12	TGCAGAGGACGAGTCTCG
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18.18 A	Cod	mab1811 6U	LG12	TGCAGCCGTCGGCCGAGT
18.18 AB	Cod	mab7848 6U	LG12	TGCAGCTCTCCAGTGGTCA
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19.98 A	D5	mab114956U	LG12	TGCAGAGAGCGCAGGTGC
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19.98 A	D5	mab143876U	LG12	TGCAGGGGTATGTACGTTT
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23.15 A	D4	mab253266U	LG12	TGCAGAGGGACGTCCTGA
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27.96 B	D5	mab124806U	LG12	TGCAGCTCTGTTGGCCCG
29.76 S	Cod	mab3829 6U	LG12	TGCAGGCGCCGTTTGGTC
30.43 S	Cod	mab724 6U	LG12	TGCAGCCTCGGGCTGTAC
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31.1 A	D4	mab260096U	LG12	TGCAGCGAGGGACCATCC
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41.1 A	D4	mab234946U	LG12	TGCAGTGCACCACCAAAA
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43.81 B	D4	mab260156U	LG12	TGCAGGTGTTAGTCTTGGT
43.81 B	D4	mab179646U	LG12	TGCAGTCACCAAATACAGC
43.81 A	D5	mab144246U	LG12	TGCAGGGCCATAATCCTCC
43.81 A	Cod	mab721 6U	LG12	TGCAGTGCAGGAGGCGGCC
43.81 A	D5	mab160006U	LG12	TGCAGGTGACGGTTCCGT
43.81 A	D5	mab162636U	LG12	TGCAGCTGTATGGACTTTG
46.53 S	Cod	mab5752 6U	LG12	TGCAGGCGGCGTCGGACC
46.53 B	D4	mab202146U	LG12	TGCAGTTCTTCACGAGCCT
46.53 B	D4	mab237746U	LG12	TGCAGCTTGCTTGCTTGCC
46.53 A	D4	mab211236U	LG12	TGCAGGTGCCTAGGAGGC
46.53 A	D5	mab134966U	LG12	TGCAGCACGACGGCCAGC
46.53 A	D5	mab146126U	LG12	TGCAGGAGCTCGCGCTC
46.53 A	D4	mab258576U	LG12	TGCAGCACCTGGGCCGCC
46.53 A	Cod	mab163 6U	LG12	TGCAGCTTGGCGTTGAAG
46.53 A	Cod	mab2567 6U	LG12	TGCAGATCTCCGAGGAAC
51.91 S	Cod	mab1662 6U	LG12	TGCAGGCAGAGTGCTCGC

54.9 S	Cod	mab709	6U	LG12	TGCAGCAGAGGGGGCGG
54.9 B	D5	mab9155	6U	LG12	TGCAGAAGGTTCTGTAA
54.9 A	Cod	mab4650	6U	LG12	TGCAGTGATTTACTACCTA
54.9 A	D4	mab200516U		LG12	TGCAGAACCAGCAAGCG
57.61 S	Cod	mab576	6U	LG12	TGCAGACACCCCACTGT
57.61 A	D5	mab115776U		LG12	TGCAGGGCGCCATGCATG
57.61 A	D5	mab9509	6U	LG12	TGCAGTGCCCGACGGGC
57.61 A	D4	mab261476U		LG12	TGCAGTACAGGATCGGCTA
65.82 S	Cod	mab1236	6U	LG12	TGCAGCATGCAGGCACCA
65.82 A	D5	mab9136	6U	LG12	TGCAGACGCTTGGAGCAC
65.82 A	D5	mab116986U		LG12	TGCAGCGGCAGCTAGCGG
67.39 S	Cod	mab3576	6U	LG12	TGCAGGTATATGTACTTGT
67.39 A	D4	mab237176U		LG12	TGCAGGATTGACGCATCC
67.39 A	D5	mab7099	6U	LG12	TGCAGGTCCCAATTTCA
67.39 A	D4	mab280266U		LG12	TGCAGAGGCTCTGCCTTC
67.39 A	D4	mab274856U		LG12	TGCAGGGCTGGACGCTAC
67.39 A	D5	mab8663	6U	LG12	TGCAGGCCATGTCGCCGC
67.39 A	D4	mab208956U		LG12	TGCAGTCTTACAGGGTTC
67.39 A	D5	mab122486U		LG12	TGCAGGGTTAAGATCAGAA
67.39 A	Cod	mab1569	6U	LG12	TGCAGAATCCAAGATTACG
67.39 A	Cod	mab1926	6U	LG12	TGCAGGCGGAAGGCGACC
67.39 A	D4	mab261116U		LG12	TGCAGGCGCGACCAGTCG
67.39 A	D4	mab180996U		LG12	TGCAGGTGCCCGCACCCG
67.39 A	Cod	mab390	6U	LG12	TGCAGGTCGAAGGAGACG
70.36 S	Cod	mab746-2	6U	LG12	TGCAGGCTTGAATTTTCC
70.36 B	Cod	mab420	6U	LG12	TGCAGCACGGGGCCAACC
70.36 B	D4	mab171256U		LG12	TGCAGTCACTCTACGCAC
70.36 B	D4	mab235906U		LG12	TGCAGGTGATCCCATGCCA
70.36 B	D4	mab261216U		LG12	TGCAGAGGGACGGTTCGC
70.36 B	D5	mab7546	6U	LG12	TGCAGGCGCGGCGACGG
70.36 A	D4	mab221546U		LG12	TGCAGCCCCGTCTGTCC
70.36 A	D4	mab209856U		LG12	TGCAGTAGTCTACTACGATA
70.36 A	D4	mab251046U		LG12	TGCAGAGGCGGGCGTCC
70.36 A	Cod	mab5429	6U	LG12	TGCAGAGTAGATAAAAAAA
70.36 A	Cod	mab2297	6U	LG12	TGCAGCAGCGGCAACACT
70.36 A	D4	mab278426U		LG12	TGCAGGTGCTGTTGCTGC
70.36 A	D4	mab204056U		LG12	TGCAGGAGAGAGAGAAGA
77.14 S	Cod	mab2107	6U	LG12	TGCAGGGTCCCGCTCTCC
77.14 A	D4	mab229996U		LG12	TGCAGCACCGCGGCTGCC
84.85 S	Cod	mab1183	6U	LG12	TGCAGGGCTTACTGCTACA
84.85 A	Cod	mab3575	6U	LG12	TGCAGGCGCCGCCACCAC
84.85 A	Cod	mab552	6U	LG12	TGCAGCGCCAGCGTCGCG
85.52 S	Cod	mab2486	6U	LG12	TGCAGCACTTCGACAGGA
85.52 B	Cod	mab2506	6U	LG12	TGCAGCCTGCGCTCGGCC
85.52 B	D4	mab170786U		LG12	TGCAGTTAAGCAAGAGATC
85.52 B	D4	mab264326U		LG12	TGCAGACAGAGGGATTAG
85.52 B	D4	mab191826U		LG12	TGCAGCCTCCGTGTTGCG
85.52 B	D4	mab182286U		LG12	TGCAGGGCGTGCCTGCC

85.52 B	D5	mab7633 6U	LG12	TGCAGAAATACACGCGCC
85.52 B	D5	mab139246U	LG12	TGCAGCACACCACTCAGG
85.52 A	D4	mab169216U	LG12	TGCAGCACCACCACCACC
85.52 A	D4	mab179766U	LG12	TGCAGTAGGCGGACGAGG
85.52 A	D4	mab169416U	LG12	TGCAGTGAGGATCTGCCA
85.52 A	D4	mab279516U	LG12	TGCAGGGAGGGATCACGG
85.52 A	D4	mab173746U	LG12	TGCAGCGGCTCGGGATG
85.52 A	D4	mab173736U	LG12	TGCAGCGGCTAAATGAAT
85.52 A	D5	mab116966U	LG12	TGCAGCGGCGACGCCAGT
85.52 A	Cod	mab283 6U	LG12	TGCAGCTCGTGCCGCACG
85.52 A	D4	mab271246U	LG12	TGCAGATCATAATTTACGT
85.52 A	D5	mab100966U	LG12	TGCAGCCTCCACCTCACT
85.52 A	D5	mab7634 6U	LG12	TGCAGAGTAAGTTTCTCCA
85.52 A	D4	mab234726U	LG12	TGCAGTGGTTGCTTGCGC
85.52 A	D4	mab174186U	LG12	TGCAGCCTTGGCATAATTG
85.52 A	D4	mab248906U	LG12	TGCAGTACCCCGACGGC
85.52 A	D4	mab192646U	LG12	TGCAGCCGATCAGGACAC
85.52 A	D4	mab197986U	LG12	TGCAGAGGGACGGTGGAC
85.52 A	D4	mab236716U	LG12	TGCAGGCTCAAAGACAG
85.52 A	D4	mab259326U	LG12	TGCAGGAGGCGGGAGGC
85.52 A	D4	mab195526U	LG12	TGCAGCACTGCAACAACA
87.32 S	Cod	mab4150 6U	LG12	TGCAGCGCTGCTGGCCCG
87.32 B	Cod	mab1580 6U	LG12	TGCAGCGGCGGTGAATGC
87.32 A	D4	mab182956U	LG12	TGCAGGGATCGGTCCGTCC
87.32 A	D4	mab260046U	LG12	TGCAGCTCGGCGGCCTCC
87.32 A	D4	mab229906U	LG12	TGCAGGGAGGAGATGCGC
87.32 A	D4	mab226346U	LG12	TGCAGAGAACCATCGGATC
87.32 A	Cod	mab466 6U	LG12	TGCAGACCATCTACAATT
87.32 A	D5	mab133716U	LG12	TGCAGCGGCAGGCCGTCA
88.44 S	Cod	mab5036 6U	LG12	TGCAGGCCCTCCGCGTCC
88.44 A	D4	mab258176U	LG12	TGCAGCAGCAATTTGGAG
88.44 A	D5	mab144606U	LG12	TGCAGGCTGCTCCTGCTAC
88.44 A	D4	mab173716U	LG12	TGCAGCGGCTCCCGTAGT
93.03 S	Cod	mab3165 6U	LG12	TGCAGGCATGAGCAGACG
93.03 A	D4	mab184956U	LG12	TGCAGGCACTCCCGCCA
93.03 A	D4	mab187586U	LG12	TGCAGCTGCTACTACAGTA
93.03 A	D4	mab260906U	LG12	TGCAGCAATGCATGGATGC
93.03 A	D5	mab144816U	LG12	TGCAGGCGTCGACGACCG
93.03 A	D5	mab130566U	LG12	TGCAGTGAICTCAAGGCGT
93.03 A	D4	mab251456U	LG12	TGCAGCGGTGCTGTCGAA
93.03 A	D4	mab200676U	LG12	TGCAGAAATGGATGCTGT
93.03 A	Cod	mab4304 6U	LG12	TGCAGTTGACGACCACGA
93.03 AB	Cod	mab172366U	LG12	TGCAGGCGCGAGCGTGAC
93.03 A	D4	mab204776U	LG12	TGCAGCGTAGGAGATAGG
93.03 A	Cod	mab1398 6U	LG12	TGCAGGAAGCACTGATAA
93.03 A	D4	mab262196U	LG12	TGCAGACGAAGCAGAATA
93.03 A	Cod	mab2211 6U	LG12	TGCAGCACGGAGACGAGC
93.03 A	D5	mab140596U	LG12	TGCAGTGTTCCTCCTCT

93.03 AB	D5	mab6667 6U	LG12	TGCAGGTGGTGCCTGCGG
93.03 AB	D5	mab101866U	LG12	TGCAGCTGGAACATCATTA
93.03 A	D4	mab181636U	LG12	TGCAGGTAGTCGCCGATT
93.03 A	D5	mab109986U	LG12	TGCAGTAGAAACGGCACA
93.03 A	D4	mab230796U	LG12	TGCAGTTGGCCGTGGGC
93.03 A	D4	mab277336U	LG12	TGCAGGTGCAAGGCGATG
93.03 A	Cod	mab607 6U	LG12	TGCAGGATGTCGGCCATCC
93.03 A	D4	mab264516U	LG12	TGCAGCCAACAAGGCATG
96.89 S	Cod	mab502 6U	LG12	TGCAGAGGAGCCAAGCGC
96.89 A	D5	mab6663 6U	LG12	TGCAGAGGTATTAGCTTA
96.89 A	D5	mab123506U	LG12	TGCAGGCCACAATCCCCTC
99.19 S	Cod	mab266 6U	LG12	TGCAGCAGATATGTGAGG
99.19 A	D5	mab101846U	LG12	TGCAGCCAGCAAGCGGCC
103.85 S	Cod	mab2118 6U	LG12	TGCAGCGGCGGGGAGTTC
103.85 A	Cod	mab4636 6U	LG12	TGCAGACGGCGGAGGCGC
103.85 A	D5	mab116816U	LG12	TGCAGCTCAAGTCGTCCT
103.85 A	Cod	mab827 6U	LG12	TGCAGCTTGTGGCCATCA
103.85 AB	Cod	mab254746U	LG12	TGCAGTGGATTCTCTTGG
103.85 A	D5	mab148136U	LG12	TGCAGCGTTTCTACGAGCA
103.85 A	Cod	mab5258 6U	LG12	TGCAGGCACTGTGGTCGC
103.85 A	Cod	mab5391 6U	LG12	TGCAGTTGACGGACATGG
103.85 A	D5	mab6821 6U	LG12	TGCAGCTAATTAGTCCAAC
103.85 A	D5	mab9365 6U	LG12	TGCAGCTGCATGCAGCGT
103.85 A	D5	mab128946U	LG12	TGCAGAACTTGACCGATT
103.85 A	Cod	mab264 6U	LG12	TGCAGCCGTGTCTTGTGCA
103.85 A	Cod	mab301 6U	LG12	TGCAGGCAGGATGGTATCC
103.85 A	Cod	mab3178 6U	LG12	TGCAGGCGGCGACGACGA
103.85 AB	Cod	mab178286U	LG12	TGCAGTGCAGGCCATTGA
103.85 A	D5	mab141886U	LG12	TGCAGTCGCTGGATTGTGC
103.85 A	Cod	mab4464 6U	LG12	TGCAGTATTGTCAGAGGAC
109.78 S	Cod	mab4636 6U	LG12	TGCAGACGGCGGAGGCGC
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109.78 A	D4	mab176816U	LG12	TGCAGTTGGGAGCGGAC
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109.78 A	D5	mab133786U	LG12	TGCAGCGCGTTCCGAGG
109.78 A	D4	mab246826U	LG12	TGCAGACTTGAACAGGTG
109.78 A	Cod	mab5408 6U	LG12	TGCAGCCCGAACACGGCC
117.68 S	Cod	mab4359 6U	LG12	TGCAGGCGGGCCTGAGCT
117.68 A	D4	mab277166U	LG12	TGCAGAGGGAGGAGCGTC
119.03 S	Cod	mab1385 6U	LG12	TGCAGGACAGAGGCAAAT
119.03 A	D4	mab250026U	LG12	TGCAGATAGATTGAATAGA
119.03 A	D5	mab116046U	LG12	TGCAGGCCCGGAGTCGGC
119.03 A	D4	mab189406U	LG12	TGCAGCGGGGACGACATC
123.83 S	Cod	mab299 6U	LG12	TGCAGTATTCTTCTGTTCGT
123.83 A	D4	mab259966U	LG12	TGCAGCTCGCCCCTGCGG
123.83 A	D4	mab219346U	LG12	TGCAGCGGCAGCGGGCAC
123.83 A	Cod	mab5685 6U	LG12	TGCAGCTTGGCATGGGTG
128.43 S	Cod	mab3774 6U	LG12	TGCAGATCCACCCACGCC

132.1 S	Cod	mab3038 6U	LG12	TGCAGGCGAGGAGGGGTG
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136.19 S	Cod	mab265 6U	LG12	TGCAGCGCTTCCCGAAAC
136.19 B	D4	mab173226U	LG12	TGCAGCTGGGGCGTCGGG
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136.19 A	Cod	mab4625 6U	LG12	TGCAGTACCTAGAGTCAA
136.19 A	D5	mab150096U	LG12	TGCAGCCGAGGAAGACGA
136.19 A	D5	mab114066U	LG12	TGCAGAGCGCGTAGAGCG
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136.19 A	D5	mab128756U	LG12	TGCAGAATGCACTCTACCC
136.19 AB	D5	mab157086U	LG12	TGCAGCCAGAGGTGATTCT
136.19 A	D5	mab7455 6U	LG12	TGCAGGGCTGGCGTCGCT
136.19 A	D4	mab238526U	LG12	TGCAGCTCAAGGACGCCG
136.19 A	D4	mab274476U	LG12	TGCAGTAGGAGGGGAGGA
136.19 A	D5	mab7005 6U	LG12	TGCAGGACCGGTCGTAC
141.01 S	Cod	mab297 6U	LG12	TGCAGCAGCGCCTTGAGC
141.01 B	D4	mab258196U	LG12	TGCAGGGGCGGCCGCGA
141.01 B	D5	mab105036U	LG12	TGCAGCAGGCACCCTTTAT
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141.01 B	D5	mab6657 6U	LG12	TGCAGAGAGCGGTCACGT
141.01 B	D5	mab9705 6U	LG12	TGCAGTAGCATACCGACGC
141.01 A	D5	mab6595 6U	LG12	TGCAGCTTCGAGGGCGTA
141.01 A	D4	mab259986U	LG12	TGCAGGTGCGCTAGTATAA
141.01 A	D4	mab276736U	LG12	TGCAGTTGCCATGTACACA
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145.11 S	Cod	mab4183 6U	LG12	TGCAGTAAGACAGCATCC
145.11 B	D5	mab7959 6U	LG12	TGCAGTGCTGTCGTAGGTC
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145.11 A	D5	mab130696U	LG12	TGCAGTCGCCGCTGTCGT
145.11 A	D4	mab270706U	LG12	TGCAGTCATGTATGCTGCT
145.11 A	D5	mab154396U	LG12	TGCAGACACGCATCCACTC
145.11 A	D5	mab139526U	LG12	TGCAGATCAGTTTGCCGTG
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145.11 A	D5	mab144806U	LG12	TGCAGGCGTCGCCTGGAT
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146.23 A	D4	mab227666U	LG12	TGCAGAACAAGACATTGAT
146.23 A	Cod	mab4302 6U	LG12	TGCAGGCTGGCCAGCCGT
146.23 A	D4	mab195956U	LG12	TGCAGCACAGGCACCGTG
146.23 A	Cod	mab1134 6U	LG12	TGCAGGGCGTCGACGGCC
146.23 A	D4	mab187486U	LG12	TGCAGCTGCTTGGCTTTTA
146.23 A	D4	mab263216U	LG12	TGCAGTACTACCTGCCTCT
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150.1 A	D5	mab117726U	LG12	TGCAGCACGGCGGCATGC
150.1 A	D5	mab145686U	LG12	TGCAGGCAATGACACCAG
157.56 S	Cod	mab3046 6U	LG12	TGCAGATCCATCGTCTCCG
157.56 B	D5	mab102356U	LG12	TGCAGTGGCATAGTCCAAC
157.56 B	D4	mab219736U	LG12	TGCAGCGCGGGGCATTCA
157.56 B	D4	mab174066U	LG12	TGCAGCGAGTGGATAGCAT
157.56 B	D4	mab234096U	LG12	TGCAGCTCGGGACCATGC
157.56 A	Cod	mab5076 6U	LG12	TGCAGCGCCTCGGCCAGC
157.56 A	D4	mab199966U	LG12	TGCAGAATCCGTGGCGGT
157.56 A	Cod	mab3482 6U	LG12	TGCAGTACTACCTGCCCT
157.56 A	D4	mab190686U	LG12	TGCAGCGCCCCATCTTTGC
157.56 A	D4	mab221076U	LG12	TGCAGCCGCCGTTGCTGG
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LG8

cM		Marker	Kr.	Kapcsoltsági csoport (LG)	Marker szekvencia	
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	0 B	D4	mab278797M		LG8	TGCAGCATGTCTTTGAC
	0 A	D5	mab7410	7M	LG8	TGCAGGAACGGCCTTT
	0 A	D5	mab6892	7M	LG8	TGCAGCACCCGCGACTA
	1.8 S	Cod	mab425	7M	LG8	TGCAGGTCAAGAGAGA
	1.8 A	D5	mab9934	7M	LG8	TGCAGAGCTTCCATTT
	1.8 A	D4	mab237927M		LG8	TGCAGCTTAGGAACCA
	1.8 A	D4	mab211417M		LG8	TGCAGGTCGCCATGGC
	1.8 A	D4	mab191707M		LG8	TGCAGCCTCTCTCCC
	1.8 A	D4	mab269887M		LG8	TGCAGCAACTGGAGCC
	1.8 A	D5	mab8325	7M	LG8	TGCAGATTTGGATGGG
	4.98 S	Cod	mab338	7M	LG8	TGCAGTGGGAGTGCTC
	4.98 B	D5	mab7004	7M	LG8	TGCAGCTCAACAAACC
	4.98 B	D5	mab6797	7M	LG8	TGCAGTGGGCGGGCGC
	4.98 B	D4	mab175567M		LG8	TGCAGATCCCCTTGAG
	4.98 A	Cod	mab5494	7M	LG8	TGCAGGGTGACGAGCA
	7 S	Cod	mab3084	7M	LG8	TGCAGACGGGCAGGA
	7 A	D4	mab171177M		LG8	TGCAGTCCCCGTTGTT
	7 A	Cod	mab3084	7M	LG8	TGCAGACGGGCAGGA
	7 A	D4	mab227107M		LG8	TGCAGAATTTTCTAGGT
	13.23 S	Cod	mab3082	7M	LG8	TGCAGTAATGAGACCG
	13.23 A	Cod	mab933	7M	LG8	TGCAGATATGTCGAAC
	13.23 A	D4	mab174477M		LG8	TGCAGCCCTCCCGCA
	13.23 A	D4	mab227387M		LG8	TGCAGAAGCAAACCA
	13.23 A	D5	mab6695	7M	LG8	TGCAGGTGCGATGCGA
	16.63 S	Cod	mab192	7M	LG8	TGCAGCTGCCCAGCGA
	16.63 A	Cod	mab4208	7M	LG8	TGCAGCAGCTGGAAC
	16.63 AB	Cod	mab7136	7M	LG8	TGCAGACCAACGTGTA
	16.63 A	D4	mab235277M		LG8	TGCAGTCCCTATGTTA
	16.63 A	D4	mab207717M		LG8	TGCAGTCCCACCACC
	16.63 A	D4	mab186837M		LG8	TGCAGCTTTCGCGACC
	16.63 A	D4	mab235377M		LG8	TGCAGTCACAGTTGAT
	16.63 A	Cod	mab4084	7M	LG8	TGCAGGATGAGCCAAC
	16.63 A	D4	mab224237M		LG8	TGCAGATTTTGTTTCGA
	27.42 S	Cod	mab3162	7M	LG8	TGCAGGGCGTGCGAGG
	27.42 A	D4	mab229017M		LG8	TGCAGGTGGCGACTGC
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27.42 A	D4	mab251107M	LG8	TGCAGCTGCGGAGCTC
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34.36 B	Cod	mab4197 7M	LG8	TGCAGGACGAGGAAC
34.36 B	Cod	mab3168 7M	LG8	TGCAGCAAGAAGCATC
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34.36 A	D4	mab217627M	LG8	TGCAGCTCTCGTCCTT
34.36 A	D4	mab219127M	LG8	TGCAGCGGCGCTGCTC
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34.36 A	D4	mab231897M	LG8	TGCAGCACCTTCCCGT
34.36 A	D4	mab222357M	LG8	TGCAGCATGTATGCGT
34.36 A	D4	mab226287M	LG8	TGCAGAGAAGGAGATC
34.36 A	D4	mab226507M	LG8	TGCAGACGTGCGCGTC
34.36 A	D4	mab226567M	LG8	TGCAGACGGAGGCAG
34.36 A	D4	mab226637M	LG8	TGCAGACGCCAGAGCA
34.36 A	D4	mab226927M	LG8	TGCAGACCACATCGGG
34.36 A	D4	mab228767M	LG8	TGCAGCTACGCGCTCA
34.36 A	D4	mab229117M	LG8	TGCAGACTGTGTGCAA
34.36 A	D4	mab229417M	LG8	TGCAGCCATTTGCGGC
34.36 A	D4	mab229807M	LG8	TGCAGCAAAAAGGGC/
34.36 A	D4	mab230627M	LG8	TGCAGATCCTCCAGCG
34.36 A	D4	mab230757M	LG8	TGCAGTTGATTGCGGT
34.36 A	D4	mab231017M	LG8	TGCAGCCGTCACACCA
34.36 A	D4	mab229037M	LG8	TGCAGGACGGCTGGTC
34.36 A	D4	mab186727M	LG8	TGCAGGAACAGAGACT
34.36 A	D4	mab177097M	LG8	TGCAGTTGAATATTGGC
34.36 A	D4	mab177187M	LG8	TGCAGTTCGTGCGCCC
34.36 A	D4	mab174707M	LG8	TGCAGCATCTGCTCGT
34.36 A	D4	mab175697M	LG8	TGCAGAGGCAGTCTCT
34.36 A	D4	mab177977M	LG8	TGCAGTGGCTCCCGCT
34.36 A	D4	mab178197M	LG8	TGCAGTGCTTCATCGA
34.36 A	D4	mab195437M	LG8	TGCAGCAGAGCTGGG/
34.36 A	D4	mab195157M	LG8	TGCAGCAGCAGCCCG
34.36 A	D4	mab170697M	LG8	TGCAGTTCTCGTTCATT

34.36 A	D4	mab179517M	LG8	TGCAGTCAGGTAGTATC
34.36 A	D4	mab194777M	LG8	TGCAGCAGGACTAGCA
34.36 A	D4	mab194677M	LG8	TGCAGCAGGCGCGGA
34.36 A	D4	mab179657M	LG8	TGCAGTCAAGATAAGC
34.36 A	D4	mab197167M	LG8	TGCAGATGCAGACACT
34.36 A	D4	mab193917M	LG8	TGCAGCCAACATCAAC
34.36 A	D4	mab197437M	LG8	TGCAGATCCATCTCCA
34.36 A	D4	mab197497M	LG8	TGCAGATCATGCCATT
34.36 A	D4	mab200957M	LG8	TGCAGAAAAACCCAGA
34.36 A	D4	mab200737M	LG8	TGCAGAAAGGTTGGCC
34.36 A	D4	mab200707M	LG8	TGCAGAAATAATCGATC
34.36 A	D4	mab200557M	LG8	TGCAGAACCCAGCGAT
34.36 A	D4	mab200137M	LG8	TGCAGAAGGCGTGCGA
34.36 A	D4	mab199977M	LG8	TGCAGAATCCCCGAAT
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34.36 A	D4	mab199817M	LG8	TGCAGACAATGGTTTC
34.36 A	D4	mab199297M	LG8	TGCAGACGCGGACCA
34.36 A	D4	mab199167M	LG8	TGCAGACGGTGGAAG
34.36 A	D4	mab177057M	LG8	TGCAGTTGCAACCGTG
34.36 A	D4	mab198987M	LG8	TGCAGACTTGAGGTCC
34.36 A	D4	mab198967M	LG8	TGCAGAGAAAGATGCA
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34.36 A	D4	mab198647M	LG8	TGCAGAGATCCGAAAC
34.36 A	D4	mab198407M	LG8	TGCAGAGCGCGCGCG
34.36 A	D4	mab197777M	LG8	TGCAGAGTGCAATTGC
34.36 A	D4	mab197737M	LG8	TGCAGAGTGGGAGGC
34.36 A	D4	mab197487M	LG8	TGCAGATCATTTAGTCC
34.36 A	D4	mab193657M	LG8	TGCAGCCACTTTCGTCA
34.36 A	D4	mab193117M	LG8	TGCAGCCCCCGCCGC
34.36 A	D4	mab189317M	LG8	TGCAGCGGTGCGCCG
34.36 A	D4	mab183307M	LG8	TGCAGGCTTCGACCAC
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34.36 A	D4	mab184007M	LG8	TGCAGGCGCTCAAGTT
34.36 A	D4	mab188487M	LG8	TGCAGCTCCACGACAC
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34.36 A	D4	mab187877M	LG8	TGCAGCTGATCCGATG
34.36 A	D4	mab187607M	LG8	TGCAGCTGCGGGCAA
34.36 A	D4	mab170527M	LG8	TGCAGTTGCCCCGAC
34.36 A	D4	mab185097M	LG8	TGCAGGCAAGCGACCA
34.36 A	D4	mab185427M	LG8	TGCAGGATCCGCGCC
34.36 A	D4	mab185897M	LG8	TGCAGGAGCGACGAC
34.36 A	D4	mab186397M	LG8	TGCAGGACATGTAAAG
34.36 A	D4	mab186817M	LG8	TGCAGCTTTTCTCACG
34.36 A	D4	mab189417M	LG8	TGCAGCGGGGAAGGC
34.36 A	D4	mab179667M	LG8	TGCAGTCAACGCCTCG
34.36 A	D4	mab189487M	LG8	TGCAGCGGGATCATCG
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34.36 A	D4	mab179957M	LG8	TGCAGTACTGAAAGCC
34.36 A	D4	mab180157M	LG8	TGCAGTAAGTTGTCGG
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34.36 A	D4	mab190137M	LG8	TGCAGCGGAAGAAGTA
34.36 A	D4	mab189917M	LG8	TGCAGCGGCATCTGAT
34.36 A	D4	mab189777M	LG8	TGCAGCGGCGCCCTC
34.36 A	D4	mab189637M	LG8	TGCAGCGCGGTGTCC
34.36 A	D4	mab181677M	LG8	TGCAGGTAGGCAGAAC
34.36 A	D4	mab182797M	LG8	TGCAGGGCCCCACCG
34.36 A	D4	mab176527M	LG8	TGCAGTTTTCAGAATTT
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34.36 A	D4	mab173687M	LG8	TGCAGCGGGCGCTGCC
34.36 A	D4	mab211757M	LG8	TGCAGGTACGTACGTC
34.36 A	D4	mab228127M	LG8	TGCAGCGTTTCATGGA
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34.36 A	D4	mab211177M	LG8	TGCAGGTGCTTCAAGT
34.36 A	D4	mab202187M	LG8	TGCAGTTCGAGGGCTC
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34.36 A	D4	mab242517M	LG8	TGCAGGGGGGTGTGC
34.36 A	D4	mab226317M	LG8	TGCAGAGAACTGGTAC
34.36 A	D4	mab210007M	LG8	TGCAGTAGCGACTGCC
34.36 A	D4	mab209967M	LG8	TGCAGTAGGAGTAGTA
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34.36 A	D4	mab207327M	LG8	TGCAGTTGTCGCAGGG
34.36 A	D4	mab219177M	LG8	TGCAGCGGCGCCAAC
34.36 A	D4	mab242987M	LG8	TGCAGTTGGTCTGTTCC
34.36 A	D4	mab214577M	LG8	TGCAGGCAGATCGCCC
34.36 A	D4	mab246107M	LG8	TGCAGCAGCTATCTAG
34.36 A	D4	mab214567M	LG8	TGCAGGCAGCAAAGAT
34.36 A	D4	mab174737M	LG8	TGCAGCATATCGGGGA
34.36 A	D4	mab221357M	LG8	TGCAGCCGAACCACT
34.36 A	D4	mab214137M	LG8	TGCAGGCCGACGATCA
34.36 A	D4	mab249627M	LG8	TGCAGCTCCTCGCGCC
34.36 A	D4	mab186637M	LG8	TGCAGGAACTTCGTGG
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34.36 A	D4	mab213497M	LG8	TGCAGGCCGCTCATT
34.36 A	D4	mab185307M	LG8	TGCAGGATGGGGGCC
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34.36 A	D4	mab199867M	LG8	TGCAGAATTTGTAATTT
34.36 A	D4	mab179867M	LG8	TGCAGTAGCAGCATTG
34.36 A	D4	mab209517M	LG8	TGCAGTCCAGTGCTCA
34.36 A	D4	mab175897M	LG8	TGCAGAGACCGCCTTC
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34.36 A	D4	mab203027M	LG8	TGCAGGTGGCGCTGG
34.36 A	D4	mab202697M	LG8	TGCAGTCCTCTACTA
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34.36 A	D4	mab176507M	LG8	TGCAGTTTTGCAGAAG
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34.36 A	D4	mab182617M	LG8	TGCAGGGCGTGCCTG
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34.36 A	D4	mab183397M	LG8	TGCAGGCTGCTGGCAC
34.36 A	D4	mab183707M	LG8	TGCAGGCGTGCAGTGC
34.36 A	D4	mab190587M	LG8	TGCAGCGCCGCGGAC
34.36 A	D4	mab207897M	LG8	TGCAGTGTGGGGATGC
34.36 A	D4	mab184097M	LG8	TGCAGGCGCCGACTTC
34.36 A	D4	mab237037M	LG8	TGCAGGCAGCCGCCTC
34.36 A	D4	mab170967M	LG8	TGCAGTGCATGCATT
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34.36 A	D4	mab217007M	LG8	TGCAGCTGGCGGTGG
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34.36 A	D4	mab213827M	LG8	TGCAGGCGAGCTGCTC
34.36 A	D4	mab213407M	LG8	TGCAGGCTAAAATAATC
34.36 A	D4	mab218617M	LG8	TGCAGCGTGC GGCCCTC
34.36 A	D4	mab209787M	LG8	TGCAGTATAAACTGCA
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34.36 A	D4	mab208007M	LG8	TGCAGTGTATGGCTCC
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34.36 A	D4	mab219497M	LG8	TGCAGCGGAGGAGGG
34.36 A	D4	mab233717M	LG8	TGCAGACGGCCGTGCC
34.36 A	D4	mab232567M	LG8	TGCAGGCATGTAACCTT
34.36 A	D4	mab232337M	LG8	TGCAGAAATCCCGCATC

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34.36 A	D4	mab229187M	LG8	TGCAGGACTGGCAGCC
34.36 A	D4	mab228817M	LG8	TGCAGCCGCTACGGCT
34.36 A	D4	mab228047M	LG8	TGCAGATGAAGGTGGA
34.36 A	D4	mab226987M	LG8	TGCAGACAGGTGTTGC
34.36 A	D4	mab221537M	LG8	TGCAGCCCCGCCCTTT
34.36 A	D4	mab220387M	LG8	TGCAGCGACGAAGGA
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34.36 A	D4	mab180707M	LG8	TGCAGGTGTTGCGTGA
34.36 A	D4	mab178107M	LG8	TGCAGTGAGCACGCA
34.36 A	D4	mab177597M	LG8	TGCAGTGTTCAGTTCG
34.36 A	D4	mab176687M	LG8	TGCAGTTTAGTTGGGA
34.36 A	D4	mab175177M	LG8	TGCAGCACCCAAAAGC
34.36 A	D4	mab174787M	LG8	TGCAGCAGGTCCTTAG
34.36 A	D4	mab174767M	LG8	TGCAGCAGTCCAATCC
34.36 A	D4	mab180917M	LG8	TGCAGGTGCTGGTCCC
34.36 A	D4	mab171077M	LG8	TGCAGTCTCTGCACTA
34.36 A	D4	mab171037M	LG8	TGCAGTGACTGCCTCC
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34.36 A	D4	mab164907M	LG8	TGCAGCCGTATCCGTA
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34.36 A	D4	mab273907M	LG8	TGCAGGCTTGGGCTCC
34.36 A	D4	mab197877M	LG8	TGCAGAGTAGCAAAAA
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34.36 A	D4	mab263227M	LG8	TGCAGACTCTGCAAAG
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34.36 A	D4	mab183987M	LG8	TGCAGGCGCTGCTCGA
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34.36 A	D4	mab198727M	LG8	TGCAGAGAGGCGGCC
34.36 A	D4	mab197837M	LG8	TGCAGAGTCCTCTGTTA
34.36 A	D4	mab197367M	LG8	TGCAGATCGACGTCGG
34.36 A	D4	mab197297M	LG8	TGCAGATCGGCACCCA
34.36 A	D4	mab195897M	LG8	TGCAGCACCCACGGACT
34.36 A	D4	mab195657M	LG8	TGCAGCACGCTTTAGG
34.36 A	D4	mab183057M	LG8	TGCAGGGAGAAACCA
34.36 A	D4	mab195137M	LG8	TGCAGCAGCAGCCGCA
34.36 A	D4	mab192577M	LG8	TGCAGCCGCACGTGCC
34.36 A	D4	mab191347M	LG8	TGCAGCCTTTGCTTCC
34.36 A	D4	mab189827M	LG8	TGCAGCGCGCAGGAA
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34.36 A	D4	mab187947M	LG8	TGCAGCTCTCCCATC
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34.36 A	D4	mab271987M	LG8	TGCAGCAGGGCGGAG
34.36 A	D4	mab265327M	LG8	TGCAGCACGGCGAAG
34.36 A	D4	mab247537M	LG8	TGCAGCTCCAGGTTGT
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34.36 A	D4	mab267287M	LG8	TGCAGGCGCACGACAC
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34.36 A	D4	mab245247M	LG8	TGCAGCGTGCCCTCAG
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34.36 A	D4	mab237567M	LG8	TGCAGGAAGGCGACAT
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34.36 A	D4	mab265047M	LG8	TGCAGGCGGACTCGTA
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34.36 A	D4	mab259867M	LG8	TGCAGAATGAAGGGCT
34.36 A	D4	mab252967M	LG8	TGCAGCTTCTTGTTC
34.36 A	D4	mab251597M	LG8	TGCAGTCGCCTAGTGG
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34.36 A	D4	mab248687M	LG8	TGCAGGAGTGGATCCG
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34.36 A	D4	mab268087M	LG8	TGCAGCGGGATCAGGC
34.36 A	D4	mab268997M	LG8	TGCAGCAAGATCTTTG
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34.36 A	D4	mab183997M	LG8	TGCAGGCCTGCACGA
34.36 A	D4	mab175797M	LG8	TGCAGAGCCCGAGCG
34.36 A	D4	mab175767M	LG8	TGCAGAGCGCCGCCCT
34.36 A	D4	mab217137M	LG8	TGCAGCTGCTGCTGCT
34.36 A	D4	mab244117M	LG8	TGCAGGGCGTCACCCA
34.36 A	D4	mab281227M	LG8	TGCAGCGGCGACGCC
34.36 A	D4	mab277157M	LG8	TGCAGGGCCTTAGGGT
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34.36 A	D4	mab270087M	LG8	TGCAGCCGCTGTCGAT
34.36 A	D4	mab179927M	LG8	TGCAGTACTGGTTGAA
34.36 A	D4	mab189287M	LG8	TGCAGCGGTGGTTCAA

34.36 A	D4	mab250637M	LG8	TGCAGATTAACAGTCTC
34.36 A	D4	mab246277M	LG8	TGCAGCACTCGCCGCC
34.36 A	D4	mab267087M	LG8	TGCAGCCAGAAATAAG
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34.36 A	D4	mab265617M	LG8	TGCAGAAAGTGGGGATC
34.36 A	D4	mab265067M	LG8	TGCAGGGTGCACTCTA
34.36 A	D4	mab249137M	LG8	TGCAGGGCAGCAGTTT
34.36 A	D4	mab246267M	LG8	TGCAGCACTTCCGTTG
34.36 A	D4	mab263757M	LG8	TGCAGGCCACAGAGGC
34.36 A	D4	mab171107M	LG8	TGCAGTCGGTGACCTT
34.36 A	D4	mab263637M	LG8	TGCAGCCTGGCGGCG
34.36 A	D4	mab243307M	LG8	TGCAGTGTAGTGCCGA
34.36 A	D4	mab267427M	LG8	TGCAGCCCAAACATGC
34.36 A	D4	mab245357M	LG8	TGCAGCGGCGGCACC
34.36 A	D4	mab272947M	LG8	TGCAGGTCCCATCTTAC
34.36 A	D4	mab272327M	LG8	TGCAGGCAAGCGACG
34.36 A	D4	mab248647M	LG8	TGCAGGTGGTGGCCG
34.36 A	D4	mab248677M	LG8	TGCAGGATGGGGTCTC
34.36 A	D4	mab245797M	LG8	TGCAGCCCGCGGCCA
34.36 A	D4	mab244187M	LG8	TGCAGGGAGTAGCTGC
34.36 A	D4	mab248697M	LG8	TGCAGCTGCTCCTGCT
34.36 A	D4	mab269757M	LG8	TGCAGTGTCTCTGTTC
34.36 A	D4	mab175257M	LG8	TGCAGCAAGAATTTGA
34.36 A	D4	mab248917M	LG8	TGCAGTTCTTCTCCTC
34.36 A	D4	mab249047M	LG8	TGCAGATAACAAAGGC
34.36 A	D4	mab269907M	LG8	TGCAGGAGCTGGAGCA
34.36 A	D4	mab248407M	LG8	TGCAGGCAGAACCGA
34.36 A	D4	mab174657M	LG8	TGCAGCATGTTGCTGC
34.36 A	D4	mab252887M	LG8	TGCAGTCGCAGCTTCT
34.36 A	D4	mab250687M	LG8	TGCAGCAGTCATGGCT
34.36 A	D4	mab251187M	LG8	TGCAGAAGGAGCTGG
34.36 A	D4	mab252747M	LG8	TGCAGCGTAAGCTCCT
34.36 A	D4	mab250677M	LG8	TGCAGCCGCGCCCGG
34.36 A	D4	mab252697M	LG8	TGCAGGAGAAGGTGAC
34.36 A	D4	mab252347M	LG8	TGCAGACGTGGCTGGC
34.36 A	D4	mab252257M	LG8	TGCAGTCTACTAAACA
34.36 A	D4	mab252137M	LG8	TGCAGCGGCACGCCCT
34.36 A	D4	mab252007M	LG8	TGCAGGGCCAGTCGA
34.36 A	D4	mab251737M	LG8	TGCAGCGCGTTTGTGG
34.36 A	D4	mab263377M	LG8	TGCAGCTGGACCCGTA
34.36 A	D4	mab250207M	LG8	TGCAGCGGCGCCAGG
34.36 A	D4	mab260607M	LG8	TGCAGTACCTCTCGCTC
34.36 A	D4	mab260467M	LG8	TGCAGTTCAGACTATTT
34.36 A	D4	mab257257M	LG8	TGCAGTCGGAGCACTC
34.36 A	D4	mab174797M	LG8	TGCAGCAGGTACAGAC
34.36 A	D4	mab257147M	LG8	TGCAGATGGAGACATA

34.36 A	D4	mab249317M	LG8	TGCAGCGAGGTGGTG
34.36 A	D4	mab254707M	LG8	TGCAGCGCACGGGGA
34.36 A	D4	mab253187M	LG8	TGCAGAAGCCAAAAA
34.36 A	D4	mab200447M	LG8	TGCAGAACGGCACTAC
34.36 A	D4	mab249957M	LG8	TGCAGCGGCAATGCGT
34.36 A	D4	mab243397M	LG8	TGCAGTGAAGAGCGG
34.36 A	D4	mab248527M	LG8	TGCAGCGCTCTTCTTA
34.36 A	D4	mab248387M	LG8	TGCAGTACTCTCTGGT
34.36 A	D4	mab194447M	LG8	TGCAGCAGTCTATGG
34.36 A	D4	mab222097M	LG8	TGCAGCCACACACCG
34.36 A	D4	mab211167M	LG8	TGCAGGTGGAAGCGTC
34.36 A	D4	mab246837M	LG8	TGCAGACTACAACCTC
34.36 A	D4	mab175777M	LG8	TGCAGAGCGCACGTTT
34.36 A	D4	mab276327M	LG8	TGCAGAACTGTGTGCC
34.36 A	D4	mab280927M	LG8	TGCAGCTGGAGGCGG
34.36 A	D4	mab174727M	LG8	TGCAGCATCAAGCACA
34.36 A	D4	mab247127M	LG8	TGCAGAAATCCACCGA
34.36 A	D4	mab226627M	LG8	TGCAGACGCGAAAGG
34.36 A	D4	mab246577M	LG8	TGCAGAGTGCAGCTTT
34.36 A	D4	mab192447M	LG8	TGCAGCCGCCGTGGG
34.36 A	D4	mab276877M	LG8	TGCAGCTTCTGCTTCA
34.36 A	D4	mab246037M	LG8	TGCAGCATCATGGGCC
34.36 A	D4	mab175827M	LG8	TGCAGAGCACCTGAC
34.36 A	D4	mab276207M	LG8	TGCAGCTGCTTGCCGT
34.36 A	D4	mab275277M	LG8	TGCAGCGGCTCGTGG
34.36 A	D4	mab249557M	LG8	TGCAGCGTGTGCGCG
34.36 A	D4	mab249327M	LG8	TGCAGGGCGCGGCTA
34.36 A	D4	mab249277M	LG8	TGCAGCAGTGGCAGG
34.36 A	D4	mab246527M	LG8	TGCAGATCGAGGAGAC
34.36 A	D4	mab275747M	LG8	TGCAGTTGGGGGCATG
34.36 A	D4	mab182917M	LG8	TGCAGGGCAAGGTCA
34.36 A	D4	mab279837M	LG8	TGCAGTGGATGCGTGC
34.36 A	D4	mab247157M	LG8	TGCAGAAACAAGGATT
34.36 A	D4	mab247447M	LG8	TGCAGGGATAGAGCCT
34.36 A	D4	mab275087M	LG8	TGCAGGCGGGTTCAGT
34.36 A	D4	mab166997M	LG8	TGCAGCAACAACCTAG
34.36 A	D4	mab247737M	LG8	TGCAGAACAATCTTGC
34.36 A	D4	mab274657M	LG8	TGCAGCTGCTCCTGCT
34.36 A	D4	mab243887M	LG8	TGCAGGTGCGTGATTG
34.36 A	D4	mab276317M	LG8	TGCAGCTGGGCGCCTG
34.36 A	D4	mab279657M	LG8	TGCAGCATGCACGTCA
34.36 A	D4	mab247417M	LG8	TGCAGGTGGTTATTTAT
34.36 A	D4	mab247277M	LG8	TGCAGGCTCGTAGCTC
34.36 A	D4	mab257017M	LG8	TGCAGCCAGGGCCGTC
34.36 A	D4	mab279447M	LG8	TGCAGCTCTCCCATCT
34.36 A	D4	mab276647M	LG8	TGCAGAGTGAGCCTTG
34.36 A	D4	mab246177M	LG8	TGCAGCAGCAGCGAA
34.36 A	D4	mab170707M	LG8	TGCAGTTCTACCTAGCT

34.36 A	D4	mab169317M	LG8	TGCAGCGACTAAACCA
34.36 A	D4	mab247367M	LG8	TGCAGTGACAGCGGCC
34.36 A	D4	mab197157M	LG8	TGCAGATGCAGGGCGC
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34.58 B	Cod	mab3316 7M	LG8	TGCAGCTCGTCCGCGG
34.58 B	Cod	mab1238 7M	LG8	TGCAGGTCGTGCGCAA
34.58 B	Cod	mab4561 7M	LG8	TGCAGCGCGGAGACG
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34.58 B	Cod	mab190 7M	LG8	TGCAGGTTGAGCTCCC
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34.58 B	Cod	mab3316 7M	LG8	TGCAGCTCGTCCGCGG
34.58 B	Cod	mab2431 7M	LG8	TGCAGGTAAGTGCAGC
34.58 B	Cod	mab3111 7M	LG8	TGCAGGTGGTCGGCCT
34.58 B	Cod	mab2146 7M	LG8	TGCAGTTGGATCACCT
34.58 B	Cod	mab4519 7M	LG8	TGCAGCTGCTGCTCGG
34.58 B	Cod	mab3087 7M	LG8	TGCAGCATGAGGCCAC
34.58 B	Cod	mab2140 7M	LG8	TGCAGCACAATCGCGA
34.58 B	Cod	mab1815 7M	LG8	TGCAGAACGACTTCTA
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34.58 B	Cod	mab3561 7M	LG8	TGCAGCGCGCGGTGCG
34.58 B	Cod	mab3523 7M	LG8	TGCAGTCAACATTGTG
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34.58 B	Cod	mab3888 7M	LG8	TGCAGTCGACGTGCAG
34.58 B	Cod	mab3721 7M	LG8	TGCAGAGTTCTCAATCT
34.58 B	Cod	mab3808 7M	LG8	TGCAGCGAGCGTGAGA
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34.58 B	Cod	mab1420 7M	LG8	TGCAGCTGTAGGTGCG
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34.58 B	Cod	mab4354 7M	LG8	TGCAGCATTGAACCGT
34.58 B	Cod	mab4358 7M	LG8	TGCAGCATCATGAAAC
34.58 B	Cod	mab4451 7M	LG8	TGCAGCAGAAGCGGG
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34.58 B	Cod	mab3467 7M	LG8	TGCAGAGCGACTACTA
34.58 A	D5	mab109747M	LG8	TGCAGTGCAACTTCGG
34.58 A	D5	mab121187M	LG8	TGCAGTGCGCCGCGAG
34.58 A	D5	mab108447M	LG8	TGCAGATCCACCACTC
34.58 A	D5	mab9474 7M	LG8	TGCAGAGAGACACAGA
34.58 AB	D5	mab117947M	LG8	TGCAGCAACATGAGCT
34.58 A	D5	mab115037M	LG8	TGCAGTTGGTTCGCAG
34.58 A	D5	mab155657M	LG8	TGCAGTTTCTAACCTA
34.58 A	D5	mab6805 7M	LG8	TGCAGCTGTGGACGTA
34.58 AB	D5	mab135577M	LG8	TGCAGAGGCAGACAA
34.58 A	D5	mab118767M	LG8	TGCAGGACGTGGGGG
34.58 A	D5	mab119257M	LG8	TGCAGGGTTGAGGCA
34.58 A	Cod	mab2781 7M	LG8	TGCAGCCAGTGCTGAA
34.58 A	Cod	mab3317 7M	LG8	TGCAGCGTTGTACAGG

34.58 A	Cod	mab330	7M	LG8	TGCAGGATCCATCCCT
34.58 A	Cod	mab3141	7M	LG8	TGCAGCCGACTGACG
34.58 AB	Cod	mab3863	7M	LG8	TGCAGGCTGCTGCC
34.58 A	Cod	mab3109	7M	LG8	TGCAGTGCGCACACTA
34.58 AB	Cod	mab229437M		LG8	TGCAGCAAGGCAAATA
34.58 AB	Cod	mab245787M		LG8	TGCAGCCCTCTCTCAC
34.58 AB	Cod	mab164747M		LG8	TGCAGCCTCCTGCCG
34.58 AB	Cod	mab230817M		LG8	TGCAGGTGCATGAAGT
34.58 AB	Cod	mab207577M		LG8	TGCAGTTCTCATCAGG
34.58 AB	Cod	mab184217M		LG8	TGCAGGCGCAACAGC
34.58 A	Cod	mab2466	7M	LG8	TGCAGCGATGTAGCAA
34.58 A	Cod	mab1586	7M	LG8	TGCAGCACCATGGCC
34.58 AB	Cod	mab7659	7M	LG8	TGCAGCTTGCCCGTGC
34.58 A	Cod	mab1493	7M	LG8	TGCAGACCAAGGCGC
34.58 A	Cod	mab3532	7M	LG8	TGCAGCCACTCTTCGG
34.58 A	Cod	mab1276	7M	LG8	TGCAGTAAATAATCATT
34.58 AB	Cod	mab124547M		LG8	TGCAGCTGCTGCATCA
34.58 A	Cod	mab5077	7M	LG8	TGCAGGACCATGGCCA
34.58 A	Cod	mab4905	7M	LG8	TGCAGGGGGCGTAGTA
34.58 A	Cod	mab1315	7M	LG8	TGCAGCGCCATCATCA
34.58 A	Cod	mab3580	7M	LG8	TGCAGAACGGGAGCG
34.58 AB	Cod	mab5414	7M	LG8	TGCAGACGGCGGCGA
34.58 A	Cod	mab3709	7M	LG8	TGCAGGGTACACGCAC
34.58 A	Cod	mab1037	7M	LG8	TGCAGCATGGAGTCCA
34.58 A	Cod	mab1037	7M	LG8	TGCAGCATGGAGTCCA
34.58 A	Cod	mab5579	7M	LG8	TGCAGCCCGATCACAT
34.58 A	Cod	mab4786	7M	LG8	TGCAGGATGGGATGTC
34.58 AB	Cod	mab9981	7M	LG8	TGCAGTCTCGGTTGC
34.58 A	Cod	mab4773	7M	LG8	TGCAGCAGGGTCAACA
34.58 AB	Cod	mab9543	7M	LG8	TGCAGGCCGAACAGTC
34.58 AB	Cod	mab112447M		LG8	TGCAGCGCCGACGCA
34.58 A	Cod	mab4462	7M	LG8	TGCAGCGGTACAGGCC
34.58 A	Cod	mab4432	7M	LG8	TGCAGCCTCACTGTCC
34.58 A	Cod	mab4418	7M	LG8	TGCAGCTGGGCACCTT
34.58 A	Cod	mab4141	7M	LG8	TGCAGTTCGTCTGCCT
34.58 AB	Cod	mab246737M		LG8	TGCAGAGCCAGCGGC
34.58 AB	Cod	mab218787M		LG8	TGCAGCGTAAGTAAAT
34.58 A	D5	mab101937M		LG8	TGCAGTCTCCATGGA
34.58 AB	D5	mab9842	7M	LG8	TGCAGCCTGCCGTGCC
34.58 AB	D5	mab9852	7M	LG8	TGCAGCCGCGCCGAC
34.58 AB	D5	mab5923	7M	LG8	TGCAGTCGTGTCCAGA
34.58 AB	D5	mab151267M		LG8	TGCAGCAGCTCCTTTG
34.58 AB	D5	mab133637M		LG8	TGCAGCGCGGTGGCC
34.58 AB	D5	mab159347M		LG8	TGCAGTAGTGTGGAGT
34.58 AB	D5	mab135417M		LG8	TGCAGATCCGTGTACC
34.58 AB	D5	mab9987	7M	LG8	TGCAGTCCACATCGTT
34.58 AB	D5	mab9161	7M	LG8	TGCAGTTCCTGCTCAA
34.58 AB	D5	mab137877M		LG8	TGCAGGCCATGGATAA

34.58 A	D5	mab162477M	LG8	TGCAGCTTCGTCTAGTC
34.58 AB	D5	mab131957M	LG8	TGCAGGCCGAGGTCCGCA
34.58 AB	D5	mab5977 7M	LG8	TGCAGCTGTGAGCGCA
34.58 AB	D5	mab7063 7M	LG8	TGCAGCCCGCGGGGC
34.58 AB	D5	mab9284 7M	LG8	TGCAGTCTACGTCATGA
35.92 S	Cod	mab5116 7M	LG8	TGCAGGTACCAGCCGC
35.92 A	Cod	mab4495 7M	LG8	TGCAGGAGGAGGAGG
35.92 AB	Cod	mab3999 7M	LG8	TGCAGTCATAGAACGG
35.92 AB	Cod	mab1769 7M	LG8	TGCAGGAAATCCAGGC
35.92 AB	Cod	mab4381 7M	LG8	TGCAGTTGGTTTCAGC
35.92 AB	Cod	mab3794 7M	LG8	TGCAGCCAGCCGACTT
35.92 AB	Cod	mab3091 7M	LG8	TGCAGCGGTTTCATGGA
35.92 AB	Cod	mab997 7M	LG8	TGCAGATTTGGCACCG
35.92 AB	Cod	mab3120 7M	LG8	TGCAGCCTCGAGAGCC
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35.92 AB	Cod	mab3634 7M	LG8	TGCAGGTGCAAAAAAA
35.92 AB	Cod	mab5204 7M	LG8	TGCAGATGATGGAGAA
35.92 AB	Cod	mab4146 7M	LG8	TGCAGGATCTCCCCC
35.92 AB	Cod	mab4209 7M	LG8	TGCAGACAGTAACCA
35.92 A	Cod	mab5392 7M	LG8	TGCAGTCAACCTTCCT
35.92 A	Cod	mab3971 7M	LG8	TGCAGAGGAGAGGAG
35.92 A	Cod	mab3202 7M	LG8	TGCAGTAAAGCGAGGC
35.92 A	Cod	mab3119 7M	LG8	TGCAGCATCTCTGCC
35.92 A	Cod	mab3125 7M	LG8	TGCAGGGTTTCTGGTC
35.92 A	D5	mab7175 7M	LG8	TGCAGAAAGTTCAAGAA
35.92 AB	D5	mab6018 7M	LG8	TGCAGCCACGGGGGC
35.92 AB	D5	mab6816 7M	LG8	TGCAGGGGGTGTGCATG
35.92 AB	D5	mab8160 7M	LG8	TGCAGCTACAGCTCGA
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35.92 AB	D5	mab7326 7M	LG8	TGCAGTTCCAGGGAGA
35.92 AB	D5	mab150167M	LG8	TGCAGCCGACATAAAC
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35.92 AB	D5	mab115217M	LG8	TGCAGTGCGAGAGCAC
35.92 AB	D5	mab121577M	LG8	TGCAGTCCAGCCTTCC
35.92 AB	D5	mab8631 7M	LG8	TGCAGGTGTGCTAAAG
35.92 AB	D5	mab114757M	LG8	TGCAGGCCGTGCCTCGA
35.92 AB	D5	mab110287M	LG8	TGCAGGTGCAACTTGC
35.92 A	D4	mab255917M	LG8	TGCAGCACCTCGTCAC
35.92 A	D4	mab234667M	LG8	TGCAGTGTCGTGTGTG
35.92 A	Cod	mab3091 7M	LG8	TGCAGCGGTTTCATGGA
35.92 AB	Cod	mab3985 7M	LG8	TGCAGATCAGGTATTGC
36.82 S	Cod	mab3540 7M	LG8	TGCAGCAAGTTGTTCT
36.82 A	D5	mab155467M	LG8	TGCAGCACTGGTCCTC
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36.82 A	D5	mab8936 7M	LG8	TGCAGGCGGCAACGG
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37.49 B	D4	mab186387M	LG8	TGCAGGACCCGCACAT
37.49 A	D4	mab251777M	LG8	TGCAGCCTGAGGGTTG
37.49 A	D4	mab243157M	LG8	TGCAGTGTTTGCCTGC
37.49 A	D4	mab216567M	LG8	TGCAGCTTCCTCGCCC
37.49 A	D4	mab200377M	LG8	TGCAGAAGAACCATA
37.49 A	Cod	mab3540 7M	LG8	TGCAGCAAGTTGTTCT
37.49 A	D4	mab185707M	LG8	TGCAGGAGGATCTGGC
37.49 A	D4	mab176977M	LG8	TGCAGTTGCTACAATC
37.49 A	D4	mab193837M	LG8	TGCAGCCACAACGTTT
37.49 A	D4	mab249257M	LG8	TGCAGACTGCACCGTG
37.49 A	D4	mab270267M	LG8	TGCAGCCGCCGACTTC
37.49 A	D4	mab188967M	LG8	TGCAGCGTTCGGCTTG
37.49 A	D4	mab231647M	LG8	TGCAGGCGCATCCAGA
37.49 A	D4	mab264147M	LG8	TGCAGCCTGAACACGT
37.49 A	D4	mab229677M	LG8	TGCAGGCGGATCCTGC
37.49 A	D4	mab204267M	LG8	TGCAGCTTCTGCCTGT
37.49 A	D4	mab185487M	LG8	TGCAGGATAGATAGCG
37.49 A	D4	mab228937M	LG8	TGCAGTTTTTGTGTGC
39.29 S	Cod	mab3845 7M	LG8	TGCAGGGCCACATCAA
39.29 A	D4	mab232587M	LG8	TGCAGGACATGGAGGC
39.29 A	D4	mab227447M	LG8	TGCAGAAGACAAAATT
39.29 A	D4	mab190527M	LG8	TGCAGCGCTGGCGCT
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39.96 B	D4	mab247237M	LG8	TGCAGTTAGCTGGTGC
39.96 B	D4	mab248017M	LG8	TGCAGCAACCATCCAG
39.96 A	D5	mab133107M	LG8	TGCAGCTCTAAAAAAT
39.96 A	D5	mab106377M	LG8	TGCAGTGAAACATCGT
39.96 AB	D5	mab8702 7M	LG8	TGCAGCAGCGGCCGC
39.96 A	D5	mab103527M	LG8	TGCAGGACATAGTCGT
39.96 AB	D5	mab152997M	LG8	TGCAGAGTGGTGCGGC
39.96 A	D5	mab121537M	LG8	TGCAGTCCCCTCCCTC
39.96 A	D5	mab9793 7M	LG8	TGCAGCTGAGCAGACC
39.96 AB	D5	mab9549 7M	LG8	TGCAGGATTGAGAAGA
41.54 S	Cod	mab4961 7M	LG8	TGCAGCTGCTGGACCC
41.54 A	D4	mab219147M	LG8	TGCAGCGGCGCCGCG
41.54 A	D4	mab194947M	LG8	TGCAGCAGCGGGTACC
42.44 S	Cod	mab868 7M	LG8	TGCAGATGCTGCGGCA
42.66 S	Cod	mab3128 7M	LG8	TGCAGCTTCATTCCATC
42.66 B	D4	mab237707M	LG8	TGCAGCTTTGAACACC
42.66 B	D4	mab237107M	LG8	TGCAGGCAAGGCGTCT
42.66 B	D4	mab198757M	LG8	TGCAGAGAGCGCCTCC
42.66 A	D5	mab9806 7M	LG8	TGCAGCTCCCGCTCGG
42.66 A	D5	mab100157M	LG8	TGCAGGCTCCTCCGTC
42.66 AB	D5	mab9759 7M	LG8	TGCAGGTGCGATCAAT
42.66 AB	D5	mab7154 7M	LG8	TGCAGGCTGATGCTAG

42.66 AB	D5	mab134287M	LG8	TGCAGCCGATCGTCGC
42.66 A	D4	mab208417M	LG8	TGCAGTGCGGTGGAGC
42.66 A	D4	mab207777M	LG8	TGCAGTTATGTTGGGC
42.66 A	Cod	mab1447 7M	LG8	TGCAGTTCTCAGTGGG
42.66 A	D4	mab175917M	LG8	TGCAGACTCTGGATGT
42.66 A	D4	mab274587M	LG8	TGCAGCAGCAGCAGCA
42.66 A	Cod	mab4088 7M	LG8	TGCAGTAGGTAACATT
42.66 A	D5	mab149807M	LG8	TGCAGCCGCTGCTGTT
42.66 A	D4	mab279497M	LG8	TGCAGATCACCTTGAG
42.66 A	D4	mab231267M	LG8	TGCAGGTGCGCCGCGC
44.91 S	Cod	mab4344 7M	LG8	TGCAGGGTCACATGGT
44.91 A	D5	mab130067M	LG8	TGCAGTTGCTGTTTTTC
44.91 A	D4	mab243957M	LG8	TGCAGGTCAAGTCCGA
44.91 A	D5	mab7350 7M	LG8	TGCAGTCACCGCTGAC
44.91 A	D4	mab242957M	LG8	TGCAGTTGTCCCATCA
44.91 A	Cod	mab4282 7M	LG8	TGCAGGGTTCATGTTG
44.91 A	D4	mab272617M	LG8	TGCAGCTCTCCATCGC
44.91 A	Cod	mab3490 7M	LG8	TGCAGCTGCCAGCCAT
44.91 A	D5	mab107267M	LG8	TGCAGGATAAGTGCGG
44.91 AB	D5	mab115287M	LG8	TGCAGTCGCTCTCGGT
48.32 S	Cod	mab4048 7M	LG8	TGCAGCGGACGCTGCC
48.32 A	D4	mab219507M	LG8	TGCAGCGGAGGACGC
48.32 A	Cod	mab1469 7M	LG8	TGCAGCGGGAGTGGG
48.32 AB	Cod	mab153087M	LG8	TGCAGAGTACGTATATT
48.32 A	D4	mab264057M	LG8	TGCAGGATGCCACACT
48.32 A	D5	mab131157M	LG8	TGCAGGTGCATGACGC
48.32 A	Cod	mab5225 7M	LG8	TGCAGCGCGCAGAGTC
48.32 A	Cod	mab787 7M	LG8	TGCAGCCTGTAAATTC
48.32 A	D4	mab186787M	LG8	TGCAGGAAACCTTGAG
48.32 A	D4	mab251747M	LG8	TGCAGCGCCGCCAGC
48.32 A	Cod	mab3032 7M	LG8	TGCAGCTGAAAATTATC
48.32 AB	Cod	mab199347M	LG8	TGCAGACGACTTCTTA
48.32 AB	Cod	mab242687M	LG8	TGCAGCGTAGATGGT
48.32 A	Cod	mab5641 7M	LG8	TGCAGGAGTGGAAGA
48.32 A	D4	mab263117M	LG8	TGCAGCGCTCCATGG
48.32 A	D4	mab245467M	LG8	TGCAGCGCGCTGGCC
48.32 A	D4	mab238857M	LG8	TGCAGCGCGGGCGGT
48.32 A	D4	mab231857M	LG8	TGCAGCCGAAGAGGT
48.32 A	Cod	mab4498 7M	LG8	TGCAGCTCCACCTCA
48.32 A	D4	mab190267M	LG8	TGCAGCGCTCGGCAAC
48.32 A	D4	mab198127M	LG8	TGCAGAGGATAGAACA
48.32 A	Cod	mab4064 7M	LG8	TGCAGCTTGCCTGAGC
48.32 A	D4	mab270057M	LG8	TGCAGCTGTGGGAGAT
50.35 S	Cod	mab5200 7M	LG8	TGCAGCAGAAACCTGC
50.35 B	D5	mab124417M	LG8	TGCAGCTGTGCAGCAC
50.35 A	Cod	mab2353 7M	LG8	TGCAGGAAACAGAGAC
50.35 A	D5	mab102527M	LG8	TGCAGTCATCCTCGCTC
50.35 AB	D5	mab119167M	LG8	TGCAGTACACTTGGGT

50.35 AB	D5	mab8181 7M	LG8	TGCAGCGCGTGGGCA
50.35 A	D5	mab9914 7M	LG8	TGCAGATTCACTAGCA
50.35 A	D5	mab9219 7M	LG8	TGCAGCCTGAGTGTGC
50.35 AB	D5	mab7331 7M	LG8	TGCAGTCGCACTTGGC
50.35 A	D5	mab138767M	LG8	TGCAGCCGACATAGGA
50.35 A	D5	mab121737M	LG8	TGCAGTAGCTGCTAAG
50.35 A	Cod	mab859 7M	LG8	TGCAGCAGAGATGGG
50.35 A	Cod	mab5057 7M	LG8	TGCAGCACCCAGCA
50.35 A	D4	mab193577M	LG8	TGCAGCCAGCCAAGC
58.3 S	Cod	mab5716 7M	LG8	TGCAGCCGCGCAGGC
58.3 A	D4	mab222427M	LG8	TGCAGCATGCAGCAC
64.31 S	Cod	mab5163 7M	LG8	TGCAGGCGCGCGCA
64.31 B	D4	mab215067M	LG8	TGCAGGAGGGGGCCG
64.31 B	D4	mab278497M	LG8	TGCAGACTGCGCCTG
64.75 S	Cod	mab1833 7M	LG8	TGCAGGTGCTTGTAGT
64.75 B	D4	mab239067M	LG8	TGCAGCGCCCCTCTC
64.75 B	D4	mab279977M	LG8	TGCAGGTCAATTTGGA
64.75 A	D4	mab196017M	LG8	TGCAGCACACAAGGCT
64.75 A	Cod	mab1825 7M	LG8	TGCAGGCGCAAGGATT
64.75 A	D5	mab153787M	LG8	TGCAGAGAGACAGAGA
64.75 A	D4	mab181457M	LG8	TGCAGGTCCGAGTCAC
64.75 A	D5	mab7837 7M	LG8	TGCAGCTTGGGGAAA
64.75 AB	D5	mab160037M	LG8	TGCAGGTCTGGGAGAC
64.75 AB	D5	mab110097M	LG8	TGCAGGTTAAGACTAG
64.75 AB	D5	mab6880 7M	LG8	TGCAGGCTTGCGTGAT
64.75 A	D5	mab107047M	LG8	TGCAGGCGCGCGTGG
64.75 A	D4	mab279697M	LG8	TGCAGGCCGTGAACG
64.75 A	Cod	mab5052 7M	LG8	TGCAGGCAGTTCATG
64.75 A	D4	mab185107M	LG8	TGCAGGCAAGCCGCC
64.75 A	D4	mab187257M	LG8	TGCAGCTGTGCTGGGT
64.75 A	D4	mab167257M	LG8	TGCAGATGCGTACATG
64.75 A	D4	mab238877M	LG8	TGCAGCGGCGGCCAC
68.62 S	Cod	mab3282 7M	LG8	TGCAGCTGTCCAACAA
68.62 A	D4	mab273067M	LG8	TGCAGCCTGGCGCTTG
68.62 A	D5	mab157007M	LG8	TGCAGCCGCCGTCTCG
68.62 A	D4	mab187057M	LG8	TGCAGCTTCTAAATCAC
68.62 A	D4	mab187297M	LG8	TGCAGCTGTACCTGTG
68.62 A	D4	mab238997M	LG8	TGCAGCGCTCGCGTGA
68.62 A	Cod	mab4009 7M	LG8	TGCAGGAGGACAGACT
68.62 AB	Cod	mab7250 7M	LG8	TGCAGCTAGCCACGTT
68.62 A	D4	mab275997M	LG8	TGCAGTTGTCGTAGGC
68.62 A	D4	mab183127M	LG8	TGCAGGGACCAATTAG
68.62 A	D4	mab222417M	LG8	TGCAGCATGCCATTTG
68.62 A	D4	mab274597M	LG8	TGCAGCTGGTTTTTCAT
68.62 A	D4	mab205167M	LG8	TGCAGCGACGTGGGA
68.62 A	D4	mab187447M	LG8	TGCAGCTGGACGCCAC
68.62 A	Cod	mab430 7M	LG8	TGCAGCGACACGGGA
68.62 A	D4	mab187817M	LG8	TGCAGCTGCAAGCAGC

68.62 A	D4	mab222477M	LG8	TGCAGCATCTGCACGC
68.62 A	D4	mab175367M	LG8	TGCAGATTTGGGAGCC
68.62 A	Cod	mab4683 7M	LG8	TGCAGATATCGTACGTA
76.08 S	Cod	mab5214 7M	LG8	TGCAGCGCCTCCTCGC
76.08 A	D5	mab7584 7M	LG8	TGCAGCAGGACGATCC
76.97 S	Cod	mab4665 7M	LG8	TGCAGGTCGCAACGGC
76.97 B	Cod	mab3235 7M	LG8	TGCAGTGC CGCGCC
76.97 B	Cod	mab4521 7M	LG8	TGCAGGTTCAAGCAGG
76.97 A	D4	mab205107M	LG8	TGCAGCGCAGATGCAC
76.97 A	D5	mab137847M	LG8	TGCAGGCCGACGCCA
76.97 A	D4	mab205127M	LG8	TGCAGCGATGGGTGG
76.97 A	Cod	mab5487 7M	LG8	TGCAGCACCCCGACCT
76.97 A	D4	mab205097M	LG8	TGCAGCGCAGGAAAG
76.97 A	Cod	mab3251 7M	LG8	TGCAGGAACTTGGCGC
76.97 A	D4	mab196067M	LG8	TGCAGCAATTCCTTTCA
76.97 A	D4	mab276567M	LG8	TGCAGCTGCGGAGGG
76.97 A	D4	mab272837M	LG8	TGCAGTTCAGGGGAGC
76.97 A	D4	mab190917M	LG8	TGCAGCGAGGTAATTC
76.97 A	D4	mab238947M	LG8	TGCAGCGGAGGGTGA
76.97 A	D4	mab215097M	LG8	TGCAGGAGGCGGTTCC
76.97 A	D4	mab179597M	LG8	TGCAGTCACGGAGGGC
76.97 A	D4	mab186887M	LG8	TGCAGCTTTAGCCGTC
76.97 A	D4	mab277817M	LG8	TGCAGGCCCGTGTGGT
76.97 A	D4	mab222507M	LG8	TGCAGCATCCTCGAAC
78.54 S	Cod	mab2494 7M	LG8	TGCAGCCCTAATGAAA
78.54 B	D4	mab203477M	LG8	TGCAGGGAACCTCCGAC
78.54 B	D4	mab222467M	LG8	TGCAGCATCTGCTGCT
78.54 B	D4	mab196007M	LG8	TGCAGCACACACCATC
78.54 B	D4	mab254197M	LG8	TGCAGGTGGATGGCGC
78.54 A	D5	mab135317M	LG8	TGCAGATTCCTCGCG
78.54 A	D4	mab239007M	LG8	TGCAGCGCTCCTGCGT
78.54 A	D4	mab193977M	LG8	TGCAGCATTGGTCCTA
78.54 A	Cod	mab5659 7M	LG8	TGCAGTACACGTACAG
78.54 A	D5	mab7741 7M	LG8	TGCAGCGGGTCCTGCT
78.54 AB	D5	mab104237M	LG8	TGCAGCGTTCTCTTGC
78.54 A	D4	mab181687M	LG8	TGCAGGTAGCTCATCG
78.54 A	D4	mab238927M	LG8	TGCAGCGGCCCATGGA
78.54 A	Cod	mab3344 7M	LG8	TGCAGTGCTAGTGCTA
78.54 A	D4	mab175967M	LG8	TGCAGACGTACGTA
78.54 A	Cod	mab5536 7M	LG8	TGCAGGTGAACGGGG
78.54 AB	Cod	mab7533 7M	LG8	TGCAGCCCGCATAACA
78.54 A	D5	mab118537M	LG8	TGCAGAAGACGTCCGT
78.54 A	Cod	mab3556 7M	LG8	TGCAGCTCTCCCGCCT
78.54 A	D4	mab215077M	LG8	TGCAGGAGGGGCGAG
78.54 A	Cod	mab3269 7M	LG8	TGCAGGCTGAGGTA
78.54 A	D4	mab222447M	LG8	TGCAGCATGAGCTTCT
82.41 S	Cod	mab3218 7M	LG8	TGCAGGTTGAGTCCATC
82.41 A	D4	mab205087M	LG8	TGCAGCGCAGGGGCA

84.89 S	Cod	mab434	7M	LG8	TGCAGGTGGTGGCTGC
86.23 S	Cod	mab3822	7M	LG8	TGCAGCCTGCCTGCC
86.23 A	D4	mab215057M		LG8	TGCAGGAGGTTCCGGC
86.23 A	D4	mab279737M		LG8	TGCAGGATTTGTCTCC
86.23 A	D4	mab189967M		LG8	TGCAGCGGCAAGATCA
86.23 A	D4	mab267357M		LG8	TGCAGCGTATTCGCCG
86.23 A	D4	mab205057M		LG8	TGCAGCGCCTGCTTCA
86.23 A	D4	mab201297M		LG8	TGCAGGTACGAGAGAG
86.23 A	Cod	mab1663	7M	LG8	TGCAGGCTGGGCAGCC
86.23 A	Cod	mab2367	7M	LG8	TGCAGCAAGACGACGC
86.23 A	D5	mab8156	7M	LG8	TGCAGCGCGCTCGGC
86.23 A	Cod	mab5054	7M	LG8	TGCAGGCTGGGCAGCC
86.23 A	D4	mab184507M		LG8	TGCAGGCCCTCCTCC
88.94 S	Cod	mab1527	7M	LG8	TGCAGGAGGAGTCACC
88.94 B	D5	mab8611	7M	LG8	TGCAGGGGGTGTCTGC
88.94 B	D4	mab194747M		LG8	TGCAGCAGGAGTAGCC
88.94 A	D4	mab222537M		LG8	TGCAGCATCCCCGACC
90.07 S	Cod	mab4831	7M	LG8	TGCAGCCCCACGTCCG
90.07 B	Cod	mab1065	7M	LG8	TGCAGGCCACGTCCG
90.07 A	D4	mab215087M		LG8	TGCAGGAGGGACAGCC
90.07 A	D4	mab182157M		LG8	TGCAGGGGTCCATCCG
90.07 A	Cod	mab3132	7M	LG8	TGCAGATCCAGTGCCG
90.07 A	Cod	mab1898	7M	LG8	TGCAGGCACGTTGTTG
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91.19 S	Cod	mab5067	7M	LG8	TGCAGCTGATTAGCCA
91.19 A	D5	mab103777M		LG8	TGCAGCTGAGATGGAC
92.31 S	Cod	mab2305	7M	LG8	TGCAGTCTCCACCTG
92.31 B	D4	mab253447M		LG8	TGCAGTTGACGACGAC
92.31 B	D4	mab222457M		LG8	TGCAGCATCTTGTTGAT
92.31 B	D4	mab205157M		LG8	TGCAGCGATCTGTGTG
92.31 A	Cod	mab5244	7M	LG8	TGCAGGACAATCCTGT
92.98 S	Cod	mab3636	7M	LG8	TGCAGCTGGTGTCCGT
92.98 B	D4	mab177077M		LG8	TGCAGTTGACGCTAGC
92.98 A	D5	mab159017M		LG8	TGCAGTCGCTACTCTG
92.98 A	D4	mab279377M		LG8	TGCAGGTTAATTTGGAT
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92.98 A	D4	mab215847M		LG8	TGCAGGACAACATGGA
92.98 A	D5	mab6738	7M	LG8	TGCAGGCCTCTCCAC
92.98 AB	D5	mab123307M		LG8	TGCAGGCAGACGGCC
92.98 AB	D5	mab6936	7M	LG8	TGCAGTTCACGGCCAG
92.98 AB	D5	mab8078	7M	LG8	TGCAGGCCCTGCTCGC
92.98 AB	D5	mab110227M		LG8	TGCAGGTCGTGTTGCA
96.15 S	Cod	mab3550	7M	LG8	TGCAGTGACGCTGAT
98.4 S	Cod	mab584	7M	LG8	TGCAGGACCATGCCTT
98.4 A	Cod	mab5035	7M	LG8	TGCAGGTTTGTCTCTG
98.4 A	Cod	mab2331	7M	LG8	TGCAGCCATGATCTCG
98.4 A	Cod	mab5343	7M	LG8	TGCAGGAATCAGGTAT
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98.4 A	Cod	mab5699 7M	LG8	TGCAGTCCTGCGCGCA
98.4 A	D5	mab108207M	LG8	TGCAGCAGCATCACCA
98.4 A	D5	mab8884 7M	LG8	TGCAGCAGCAACAGCT
98.4 A	D5	mab152897M	LG8	TGCAGATATCCTCACGA
98.4 A	Cod	mab4789 7M	LG8	TGCAGGTCCC CGGCT
98.4 A	Cod	mab5670 7M	LG8	TGCAGCGACTCCCCC
98.4 AB	Cod	mab131667M	LG8	TGCAGGGACTCGCCTA
98.4 A	D4	mab239037M	LG8	TGCAGCGCGAGCCATC
98.4 A	D5	mab6918 7M	LG8	TGCAGGAGCTGTGCAC
98.4 A	D4	mab188177M	LG8	TGCAGCTCGCTTGCCG
98.4 A	D4	mab205147M	LG8	TGCAGCGATGATGCTC
98.4 A	D5	mab9857 7M	LG8	TGCAGCCGCCCGCCG
98.4 A	D4	mab201557M	LG8	TGCAGGCGGGCGGG
98.4 A	D4	mab238897M	LG8	TGCAGCGCGCGAGG
98.4 A	D4	mab174917M	LG8	TGCAGCAGCCACTGCC
98.4 A	D4	mab270717M	LG8	TGCAGCAGCCGCCGT
98.4 A	D4	mab268217M	LG8	TGCAGCAGGACAGACC
98.4 A	D4	mab222387M	LG8	TGCAGCATGCCGTGGA
98.4 A	D4	mab222437M	LG8	TGCAGCATGATCCACT
98.4 A	D4	mab222487M	LG8	TGCAGCATCTCCCCAC
98.4 A	D4	mab238917M	LG8	TGCAGCGGCCCGCGAC
98.4 A	D4	mab205077M	LG8	TGCAGCGCATGAGCGC
98.4 A	Cod	mab4124 7M	LG8	TGCAGCCCTAGATCCTA
98.4 AB	Cod	mab106107M	LG8	TGCAGGCCAGATCGAA
98.4 A	D4	mab215047M	LG8	TGCAGGAGTGAGCGAA
98.4 A	D5	mab107407M	LG8	TGCAGGAAGCTGATCT
98.4 A	D5	mab100847M	LG8	TGCAGCGCGAGGCC
98.4 AB	D5	mab145997M	LG8	TGCAGGAGGTAAGGGT
98.4 A	D5	mab123867M	LG8	TGCAGGAGGCGAGGA
98.4 AB	D5	mab9193 7M	LG8	TGCAGGCAGATAGTGT
103.44 S	Cod	mab4215 7M	LG8	TGCAGCAGGATGGCGA
103.44 B	D4	mab195467M	LG8	TGCAGCAGAAACTGTC
103.44 A	D5	mab159657M	LG8	TGCAGTAACAGAGTTT
103.44 AB	D5	mab101167M	LG8	TGCAGCAGCTGCCCC
103.44 AB	D5	mab117667M	LG8	TGCAGCAGCGACGCG
103.88 S	Cod	mab324 7M	LG8	TGCAGTGACGGACCC
103.88 B	D4	mab174927M	LG8	TGCAGCAGCAGGATAC
103.88 A	Cod	mab4844 7M	LG8	TGCAGGTAACACGAGC
106.83 S	Cod	mab3104 7M	LG8	TGCAGCGCGAGGCCG
106.83 B	D5	mab6781 7M	LG8	TGCAGCTACGAGCTTG
106.83 B	D5	mab6878 7M	LG8	TGCAGTTCTTCAACGTC
107.5 S	Cod	mab3224 7M	LG8	TGCAGCGCGAGACGA
107.5 A	D5	mab158647M	LG8	TGCAGTGACATGATA
108.85 S	Cod	mab3364 7M	LG8	TGCAGGACGTGCATGC
108.85 A	D5	mab148977M	LG8	TGCAGCGCGCACACCA
108.85 A	Cod	mab4852 7M	LG8	TGCAGGACGTGCATGC
108.85 A	D5	mab129357M	LG8	TGCAGGGCGGTGCGA
108.85 AB	D5	mab148827M	LG8	TGCAGCGCTGGCGCG

108.85 A	Cod	mab460	7M	LG8	TGCAGCAGGCTGCCCT
108.85 A	D4	mab222497M		LG8	TGCAGCATCGTCTCCG
108.85 A	D5	mab136797M		LG8	TGCAGAGTTTTGAAA
108.85 A	D5	mab102247M		LG8	TGCAGTTGCTTTATTTG
108.85 A	Cod	mab3349	7M	LG8	TGCAGCTCATACTGTAC
111.81 S	Cod	mab498	7M	LG8	TGCAGGTCGGAGTACT
111.81 B	D4	mab238957M		LG8	TGCAGCGGAGGCGTG
112.03 S	Cod	mab767	-17M	LG8	TGCAGGTCGGCGTACT
112.03 B	D4	mab176737M		LG8	TGCAGTTGTTGCATCC
112.03 B	Cod	mab3812	7M	LG8	TGCAGGATTCACCGAG
112.03 B	D4	mab176747M		LG8	TGCAGTTGTTAGGCCT
112.03 A	D5	mab117657M		LG8	TGCAGCAGCGAGTTGA
112.03 AB	D5	mab164377M		LG8	TGCAGCGCACCCGCCA
112.03 AB	D5	mab8983	7M	LG8	TGCAGAACTGCATCAA
112.03 AB	D5	mab7696	7M	LG8	TGCAGCATGCATGCTA
112.03 AB	D5	mab6885	7M	LG8	TGCAGCGACCTCATCC
112.03 A	D4	mab201507M		LG8	TGCAGGTGCTCACGGT
115.43 S	Cod	mab4139	7M	LG8	TGCAGAGAGGGCGAA
115.43 B	D4	mab239047M		LG8	TGCAGTGCGACAGCAC
115.43 B	D4	mab222407M		LG8	TGCAGCATGCCCGAGA
115.43 A	D5	mab106197M		LG8	TGCAGAGCCGTCATGC
115.43 A	D5	mab155057M		LG8	TGCAGAAAAAAAACGC
115.43 A	D4	mab276397M		LG8	TGCAGCGCGGCGACG
115.43 A	Cod	mab4429	7M	LG8	TGCAGCTCCTCCGTG
115.43 AB	Cod	mab269767M		LG8	TGCAGTCTATCCCTTC
115.43 A	D5	mab116277M		LG8	TGCAGGAGAGGAGCA
115.43 A	Cod	mab2247	7M	LG8	TGCAGCGACAAGACGC
115.43 AB	Cod	mab9432	7M	LG8	TGCAGCACGAGCAGTC
115.43 AB	Cod	mab158357M		LG8	TGCAGTGGAGTAGGGC
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115.43 AB	Cod	mab120537M		LG8	TGCAGTTTGGTGTCA
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115.43 A	D5	mab8984	7M	LG8	TGCAGGTCGATGCAGA
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118.37 S	Cod	mab1283	7M	LG8	TGCAGAAAATGAGGTT
118.37 B	D4	mab276227M		LG8	TGCAGGTTCTGCCACA
118.37 B	D4	mab175447M		LG8	TGCAGATGGGCGGTTT
118.37 B	D4	mab253897M		LG8	TGCAGCAAGCGGCAG
118.37 A	D4	mab194657M		LG8	TGCAGCAGGCGGAAG
118.37 A	D4	mab232577M		LG8	TGCAGGACTCTGCCGC
118.37 A	D4	mab248087M		LG8	TGCAGCGCGAGGCGG
118.37 A	D4	mab180517M		LG8	TGCAGGTTCTTAACGTA
118.37 A	D4	mab202727M		LG8	TGCAGTCCACAGTACC
118.37 A	D4	mab209427M		LG8	TGCAGTCTATCTTAAA
118.37 A	D4	mab230687M		LG8	TGCAGTGTTCGGATTTA
119.71 S	Cod	mab694	7M	LG8	TGCAGCGCAGCTTGAT
119.71 B	Cod	mab3253	7M	LG8	TGCAGCGCAGCTTGAT

119.71 A	D5	mab125087M	LG8	TGCAGCTAGGGTTTTG
119.71 AB	D5	mab160377M	LG8	TGCAGGGGGGGCAGA
119.71 AB	D5	mab110887M	LG8	TGCAGGCCTTGCCTCA
119.71 AB	D5	mab7264 7M	LG8	TGCAGGGCAGCGGCC
119.71 AB	D5	mab6741 7M	LG8	TGCAGGAGTGCAGGAT
119.71 AB	D5	mab139047M	LG8	TGCAGCAGGTGAAAGC
119.71 AB	D5	mab9083 7M	LG8	TGCAGCGCCGCCGAG
119.71 AB	D5	mab7106 7M	LG8	TGCAGGCAAGGTTCGA
119.71 AB	D5	mab141217M	LG8	TGCAGTGCTCCCCCT
119.71 AB	D5	mab157577M	LG8	TGCAGAGCACGGGGC
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119.71 A	D5	mab101297M	LG8	TGCAGCACGCACTCAT
119.71 AB	D5	mab110187M	LG8	TGCAGGTGCAGCACGC
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119.71 A	D5	mab6842 7M	LG8	TGCAGCTCACGCCCTC
119.71 A	D5	mab7078 7M	LG8	TGCAGCCGCACGTACC
119.71 A	D5	mab6841 7M	LG8	TGCAGCTGTTGGCCAT
119.71 A	D5	mab8495 7M	LG8	TGCAGGAGATGCTGGC
119.71 A	D5	mab7767 7M	LG8	TGCAGCAAGAAGCGAC
119.71 A	D5	mab155717M	LG8	TGCAGTGTGTACAGGC
119.71 A	D5	mab7962 7M	LG8	TGCAGGGTAGCAAGCA
119.71 A	D5	mab157567M	LG8	TGCAGAGCCAGGAGAC
123.82 S	Cod	mab4129 7M	LG8	TGCAGGACGCGAGGG
123.82 A	D4	mab243087M	LG8	TGCAGTTCCACTTCCG
123.82 A	D4	mab193647M	LG8	TGCAGCCACTTTTCGA
123.82 A	D4	mab184587M	LG8	TGCAGGCCCAACTAAA
123.82 A	D5	mab8528 7M	LG8	TGCAGCTCGCCGCTGC
123.82 A	Cod	mab1864 7M	LG8	TGCAGAGTCAGCTGCT
123.82 A	D4	mab231227M	LG8	TGCAGCTCTTCGGTGG
123.82 A	D5	mab130177M	LG8	TGCAGTTCAGACCTCA
123.82 A	D4	mab221637M	LG8	TGCAGCCAGCACCCGC
125.39 S	Cod	mab1241 7M	LG8	TGCAGCTCCAGGTAFT

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TCCCCTTGAGCCGCATATCTGCCCGCCG
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CAGTACTTTGGAGTTCGGTAGCACCAGGAGCATCAGATGCTAATGGCGACGCC
SAGTACGAACGAGAATTGTTCTGGGGACGCGGATAATTTAGCAAAGTGT
ACCCCTTCTGTTTTGTTTTTCTCTTCCACCTGCTTTCTGCCACTGACT
GGACGATGTCGTGGGGTTGCGACGGTGGAGCGGGTGGTCGAGGCCACGCGGC

LG15

cM		Marker	Kr.	Kapcsoltsági csoport (LG)	Marker szekvencia
	0 S	Cod	mab4376 7U	LG15	TGCAGGGGCTAGATCTAGAG
	0 A	D5	mab128177U	LG15	TGCAGAGGCGAGGAAAAAC
	0 A	D5	mab116067U	LG15	TGCAGGCCCTTCTCTTGT
	0 A	D4	mab254417U	LG15	TGCAGCTTAGACGCCCTCA
	0 AB	Cod	mab204257U	LG15	TGCAGCTTGAAAATGACGGA
	0 A	Cod	mab2198 7U	LG15	TGCAGCAGGTCTGGCTCGG
	0 A	D4	mab261257U	LG15	TGCAGGACCACAAGGACATT
	1.12 B	D5	mab8144 7U	LG15	TGCAGCTCGTACTTGCCGTG
	1.12 B	D5	mab8591 7U	LG15	TGCAGAGTTAGGTGCAGGG
	1.12 B	D4	mab220357U	LG15	TGCAGCGACGACGGTAAGGA
	1.12 B	D5	mab7753 7U	LG15	TGCAGCATCGGGTTGATGTG
	1.12 S	Cod	mab2270 7U	LG15	TGCAGGGAAATCAATCCGAA
	1.12 A	Cod	mab1910 7U	LG15	TGCAGCTTCTCGCGGCGCT
	1.12 A	D5	mab136207U	LG15	TGCAGAGCAGAGCGGGCGA
	1.12 AB	D5	mab6753 7U	LG15	TGCAGCATCGGGCTCAGGTG
	1.12 AB	D5	mab8615 7U	LG15	TGCAGGAGGAAGACTTGCTG
	1.12 AB	D5	mab142307U	LG15	TGCAGTAGTTTCAACCTACGT
	1.12 AB	D5	mab132037U	LG15	TGCAGGCCCTCCGCGTCCCG
	1.12 AB	D5	mab6314 7U	LG15	TGCAGATCACGCCGAGCACT
	1.12 A	D5	mab147417U	LG15	TGCAGCTGAGGGGTGAAGCC
	1.12 A	Cod	mab2245 7U	LG15	TGCAGTACGATGATGATAAGT
	1.12 A	D5	mab6713 7U	LG15	TGCAGGGTCAGAGAAGTTGA
	2.01 S	Cod	mab317 7U	LG15	TGCAGGCCAAGGTGTCGGCC
	2.68 S	Cod	mab3954 7U	LG15	TGCAGCAGCGCCAGGGAAC
	4.93 B	D4	mab165267U	LG15	TGCAGCCCCCTCTGGGGCCC
	4.93 B	D4	mab267887U	LG15	TGCAGCTCTCGTCCCCCGG
	4.93 S	Cod	mab340 7U	LG15	TGCAGTGGAGAGAGAGACTC
	4.93 A	D4	mab272827U	LG15	TGCAGGGCGGCGGGCTTCTC
	4.93 A	D5	mab148627U	LG15	TGCAGCGGCGGCGCCATTT
	4.93 A	D4	mab230557U	LG15	TGCAGAGGTGCGTAGCGGGC
	4.93 A	D5	mab132237U	LG15	TGCAGGCACCGCTCCAACGC
	4.93 A	D4	mab208047U	LG15	TGCAGTGGTGGCAGACATAG
	8.57 S	Cod	mab5184 7U	LG15	TGCAGGCGGTGGCAACCACC
	8.57 A	D5	mab146307U	LG15	TGCAGGACGGTCGTCGTAC
	8.57 A	D5	mab119787U	LG15	TGCAGCTAAACCTGGTAGC
	8.57 A	D5	mab6804 7U	LG15	TGCAGCCTCCCCACCGCCGA
	8.57 A	D5	mab7789 7U	LG15	TGCAGGCGGTGGCTCCGCCA
	8.57 AB	D5	mab110267U	LG15	TGCAGGTGAGGGCGGCCAGA
	8.57 A	D5	mab9311 7U	LG15	TGCAGGTACGTATCAAGAATT
	8.57 A	D5	mab7019 7U	LG15	TGCAGGCGGTGATGGAGGCA
	10.14 B	D5	mab156487U	LG15	TGCAGGACCTTCCAAAACTTC
	10.14 S	Cod	mab339 7U	LG15	TGCAGGTACCCTGCTGCGC
	10.14 A	D4	mab252667U	LG15	TGCAGGATTGGGACTTGCGG
	10.14 A	D4	mab200987U	LG15	TGCAGTCCGAATGGCCCTCTC

10.14 A	D4	mab270597U	LG15	TGCAGGCGCAGTTCCTTTCCG
10.14 AB	D5	mab9939 7U	LG15	TGCAGACGGCCGTCACGCCG
10.14 A	D5	mab8021 7U	LG15	TGCAGGGCCTTCTCGAGGGC
10.14 A	D4	mab265677U	LG15	TGCAGCTAGTGCCTGTCTGTG
10.14 A	D4	mab232687U	LG15	TGCAGCTCCATCAGCTCCGCC
11.26 S	Cod	mab4154 7U	LG15	TGCAGATCTTGTCCCGGGAG
13.06 S	Cod	mab3110 7U	LG15	TGCAGCGTTGCTTGCGATAC
13.06 A	D5	mab142947U	LG15	TGCAGGTGCATGGACGCGC
13.06 A	D4	mab189977U	LG15	TGCAGCGGCAAGACGACATA
13.06 A	D4	mab254827U	LG15	TGCAGGCCCTCGGAGAAGCC
13.95 B	D5	mab6711 7U	LG15	TGCAGGACGTTGCCGAGCAC
13.95 B	D4	mab219897U	LG15	TGCAGCGCCGACGAGCTCTA
13.95 B	D4	mab219907U	LG15	TGCAGCGCCCTTCTTACAC
13.95 B	D4	mab275247U	LG15	TGCAGACCACACGCTACAGG
13.95 B	D4	mab218527U	LG15	TGCAGCGTGTGAGCTGCTTC
13.95 S	Cod	mab3316 7U	LG15	TGCAGCTCGTCCGCGGGGAG
13.95 A	D4	mab204907U	LG15	TGCAGCGGCGCATTGTCCAT
13.95 A	D4	mab277487U	LG15	TGCAGCACAAAGTTGCTCTC
13.95 A	D4	mab259467U	LG15	TGCAGCACCATCATTGCTCTT
13.95 A	D4	mab252687U	LG15	TGCAGGAGCACGGCCTGCG
13.95 A	D4	mab277867U	LG15	TGCAGGCTGCTGTAGTTCCAC
13.95 A	D4	mab199557U	LG15	TGCAGACCAGCGCCACCGCC
13.95 A	D4	mab202817U	LG15	TGCAGTAGCGGCCAGGCACC
14.39 B	D5	mab117447U	LG15	TGCAGCCACGTGCTGCCAAG
14.39 S	Cod	mab3868 7U	LG15	TGCAGCAAGAACTTGCGCCT
14.39 A	D4	mab232807U	LG15	TGCAGCATATAACTAACCTCG
19.91 S	Cod	mab2623 7U	LG15	TGCAGCAGATCACGAGCATC
19.91 A	D4	mab212107U	LG15	TGCAGGGGGGTTGTGGCCTC
19.91 A	Cod	mab2408 7U	LG15	TGCAGCGAGTCTTTGATGACC
19.91 A	D4	mab188807U	LG15	TGCAGCTAGCGCAGATCCCG
19.91 A	D4	mab177987U	LG15	TGCAGTGGCGTCAGCAGGGC
19.91 A	D4	mab198687U	LG15	TGCAGAGAGGTGGCTTCAGA
19.91 A	D4	mab180087U	LG15	TGCAGTACAGGAAGCAGTTTC
19.91 A	D4	mab220717U	LG15	TGCAGCCTCCTTTGCCTGCG
19.91 A	D4	mab259197U	LG15	TGCAGTGCCAAGCGGCAGGC
19.91 A	D4	mab268537U	LG15	TGCAGAAGAGGCATCTTGGC
19.91 A	D4	mab276197U	LG15	TGCAGCCACCTTTGTCTCTCT
25.43 S	Cod	mab3188 7U	LG15	TGCAGCCACCTCTCCACGCA
26.32 B	D5	mab131727U	LG15	TGCAGGGACAGCGGCCCGC
26.32 B	D5	mab9377 7U	LG15	TGCAGCGTCGCGTTCGGCGT
26.32 S	Cod	mab1173 7U	LG15	TGCAGCACCTCGTGAGCGC
26.32 A	D4	mab246717U	LG15	TGCAGAGCGTCGACGGACGC
26.32 A	D5	mab8533 7U	LG15	TGCAGGTGAGGAAGGACGG
26.32 A	D5	mab107277U	LG15	TGCAGGATAAGTGCGGCTTT
26.32 A	D5	mab101877U	LG15	TGCAGTGTGAGGCCATCCCTC
31.61 S	Cod	mab623 7U	LG15	TGCAGTCTTAGCAGACCATGC
31.61 A	Cod	mab1216 7U	LG15	TGCAGCTGCCGCCACGGCCC
32.73 S	Cod	mab2293 7U	LG15	TGCAGAAACGACTGCCCTCC

32.73 A	D5	mab6709 7U	LG15	TGCAGGACGTTGCCGAGCAC
36.62 B	D4	mab269327U	LG15	TGCAGGAAGAAGCTTCGTCCG
36.62 B	D4	mab233727U	LG15	TGCAGACAGCCAGGAGGAAC
36.62 S	Cod	mab4430 7U	LG15	TGCAGACTCTCAAGATGCGC
36.62 AB	Cod	mab256437U	LG15	TGCAGGCTGGTGGCAGCTCC
36.62 A	Cod	mab1166 7U	LG15	TGCAGTGTAGCGCGGCCTTC
36.62 A	D4	mab222847U	LG15	TGCAGCAGGAAACATGCGC
36.62 A	D4	mab223027U	LG15	TGCAGCAGCGGCGGAAGGC
36.62 AB	Cod	mab254497U	LG15	TGCAGCCCCCTACCCGTTGC
36.62 A	Cod	mab739 7U	LG15	TGCAGGCCCATAGTCCAGC
39.81 S	Cod	mab4200 7U	LG15	TGCAGGTCGGCCGCCGCA
39.81 A	D4	mab206997U	LG15	TGCAGAACATGGTCGACGCC
39.81 A	D4	mab190937U	LG15	TGCAGCGAGGAGATTGTGGT
39.81 A	D5	mab141387U	LG15	TGCAGTGCAGTGCTATGTACT
39.81 A	D5	mab133087U	LG15	TGCAGCTCTACTTGAGCTGCC
39.81 A	D4	mab262627U	LG15	TGCAGCAGTCTCGGACCATA
39.81 A	D4	mab265567U	LG15	TGCAGAGTCCTAAGCGATACA
39.81 A	D4	mab222947U	LG15	TGCAGCAGCTTGCTGGAAAG
39.81 A	D4	mab268697U	LG15	TGCAGGACTGATGGAAGCAG
39.81 A	D4	mab268957U	LG15	TGCAGTGCACAGAGCAAATT
39.81 A	D4	mab276357U	LG15	TGCAGATGACTCAACCTTGCA
39.81 A	D5	mab121077U	LG15	TGCAGTGGATCGCGCGCATG
39.81 A	D5	mab160917U	LG15	TGCAGGCTCCAGCTGGCTGA
39.81 A	D5	mab155297U	LG15	TGCAGTTGCCGCTCCACATG
39.81 A	D4	mab177397U	LG15	TGCAGTTAGTTTTTGTGCTTC
39.81 AB	Cod	mab8357 7U	LG15	TGCAGCACACGCTCCACCAC
39.81 AB	Cod	mab6422 7U	LG15	TGCAGGCCGAGGCCTCCTTC
39.81 A	Cod	mab188 7U	LG15	TGCAGCAGCTGCCTCGCCGC
39.81 A	D5	mab123697U	LG15	TGCAGGATGGCGAAGACAGT
39.81 A	D4	mab239497U	LG15	TGCAGCCGCTGAGCAAGACC
39.81 A	D5	mab110607U	LG15	TGCAGGGCTGTCTCCGCGC
39.81 A	D5	mab116477U	LG15	TGCAGCTTGGCGTCCGCGGT
39.81 A	D5	mab7991 7U	LG15	TGCAGCAGCATGCATGTGCT
39.81 A	D5	mab8847 7U	LG15	TGCAGCGCGCGGGCGATTCA
39.81 A	D5	mab123837U	LG15	TGCAGGGGGCTTCGCGCGC
39.81 A	D4	mab260817U	LG15	TGCAGCGCACAAAGGGCGAC
39.81 A	D5	mab9774 7U	LG15	TGCAGGAATCAAGCTTCCGC
39.81 A	D5	mab107327U	LG15	TGCAGGAGCGGGTGGAGGC
39.81 A	D5	mab6801 7U	LG15	TGCAGGGGCACTGCACATTT
41.84 B	D5	mab6799 7U	LG15	TGCAGTGGGCGGCACGGTCC
41.84 B	D5	mab136457U	LG15	TGCAGCGGCTTGAAGATGGA
41.84 B	D5	mab115247U	LG15	TGCAGTGATTTAGAGGTGCG
41.84 B	D5	mab132097U	LG15	TGCAGGCCAAGAAGGGTAAC
41.84 B	D5	mab100607U	LG15	TGCAGCTCGACGACGGGTAC
41.84 S	Cod	mab5387 7U	LG15	TGCAGATCCGCGTCCAGGGG
41.84 A	D5	mab9014 7U	LG15	TGCAGTCCATGGCCACGTTG
41.84 A	D4	mab215257U	LG15	TGCAGGAGGAACACCAAGTT
41.84 A	D4	mab223007U	LG15	TGCAGCAGCGGGTGGTTGCA

41.84 AB	Cod	mab203307U	LG15	TGCAGGGCTTTTCGTTTGTTT
41.84 AB	Cod	mab182267U	LG15	TGCAGGGGCTCTGCCGGCC
41.84 A	Cod	mab1786 7U	LG15	TGCAGAAGGACGACCAGGCT
41.84 A	D5	mab119067U	LG15	TGCAGTGCACCGTGTTCCTT
41.84 AB	D5	mab6798 7U	LG15	TGCAGACATGATCTACACCCA
41.84 A	D5	mab6082 7U	LG15	TGCAGGTTTCGCTTTCCTGCT
41.84 A	D4	mab239487U	LG15	TGCAGCCGCTTAAACTCCCA
41.84 A	D5	mab146797U	LG15	TGCAGCTTCATTCTCATCTCA
41.84 A	D4	mab258147U	LG15	TGCAGAGAAACCACCTTCC
41.84 A	D5	mab146297U	LG15	TGCAGGACTCAATCGTTCTTA
41.84 A	D5	mab136467U	LG15	TGCAGCATCCCCATCTGCTGC
50.05 S	Cod	mab1731 7U	LG15	TGCAGCAGCTCAGGTCATGT
50.05 A	D4	mab215317U	LG15	TGCAGGAGCGAGGTGAGGG
50.05 A	D5	mab7969 7U	LG15	TGCAGGCCCCGCCCGTCCGC
50.05 A	D4	mab214467U	LG15	TGCAGGCAGGGTGAGGGA
50.05 A	D4	mab197937U	LG15	TGCAGAGGGCGTGGTGAC
52.76 S	Cod	mab1157 7U	LG15	TGCAGGCAGATCCTGGAGAT
52.76 A	D4	mab202527U	LG15	TGCAGTGATACTAATAAGATT
52.76 A	D4	mab219777U	LG15	TGCAGCGCGAAAAAACTCC
52.76 AB	Cod	mab181817U	LG15	TGCAGGTAATGGTGACGAT
52.76 A	Cod	mab412 7U	LG15	TGCAGACGCGACGATGCTGA
52.76 A	D4	mab213597U	LG15	TGCAGGCGGCCCGAGCTTG
52.76 A	D4	mab175497U	LG15	TGCAGATCTACATCTTACAGA
52.76 A	D5	mab9001 7U	LG15	TGCAGTGTACCCGTCTGCCG
52.76 A	Cod	mab5015 7U	LG15	TGCAGGGTGTCAAGAAGAA
52.76 A	D4	mab210217U	LG15	TGCAGTACGGGAGGGAGACT
52.76 A	D5	mab6706 7U	LG15	TGCAGCTCACGCACTCGGAC
56.88 S	Cod	mab1223 7U	LG15	TGCAGCAGCGCCAGCGACG
56.88 A	Cod	mab5692 7U	LG15	TGCAGGATCGGCACAGGCC
57.55 S	Cod	mab5182 7U	LG15	TGCAGCGGGCGGCGTCCGC
57.55 A	Cod	mab5730 7U	LG15	TGCAGGGTGTGGTGACGGG
57.55 A	D4	mab204627U	LG15	TGCAGCTATGCCAACCTGCC
57.55 A	D5	mab154547U	LG15	TGCAGAAGTCGTGACCATC
57.55 A	D4	mab203047U	LG15	TGCAGGTGCACTCACACACG
62.38 S	Cod	mab3255 7U	LG15	TGCAGATCAGCAAAGACGGC
62.38 A	D5	mab148797U	LG15	TGCAGCGCTGTTGATCCTGG
62.38 A	D5	mab140627U	LG15	TGCAGTGTGTTAGAGTAGCTT
62.38 A	D5	mab7047 7U	LG15	TGCAGCGGTGAGCGAGGCG
62.38 A	D4	mab248777U	LG15	TGCAGCGCCACAATTAACAG
62.38 A	D5	mab116937U	LG15	TGCAGCGGTGGCTGGAGGT
66.97 S	Cod	mab5039 7U	LG15	TGCAGAGCGTCCTGATCATC
66.97 A	D5	mab9495 7U	LG15	TGCAGGTGTCGTGCGCCGTT
66.97 A	D4	mab237997U	LG15	TGCAGCTGGTGCGCGACAT
66.97 AB	D5	mab8338 7U	LG15	TGCAGGAGACGCAACGCCCA
66.97 A	D5	mab130397U	LG15	TGCAGTGCGTCGTCGAGTG
66.97 A	D4	mab189207U	LG15	TGCAGCGTATATTCAGAGTAA
66.97 A	D5	mab141347U	LG15	TGCAGTGCCAGTGCACTTGG
66.97 A	D4	mab194907U	LG15	TGCAGCAGCGTTTCATTGTGT

66.97 A	D5	mab9510 7U	LG15	TGCAGTCTCCATCTGATTGAT
66.97 A	D5	mab8859 7U	LG15	TGCAGCCTGAGCAGCACGTC
77.24 S	Cod	mab925 7U	LG15	TGCAGGACGTGTTTCATGCGG
77.24 A	Cod	mab1452 7U	LG15	TGCAGCCGGAGGGGGCGAC
77.24 A	D4	mab229847U	LG15	TGCAGAGCGCGATCTTGAC
77.24 A	D4	mab174637U	LG15	TGCAGCATTCCGGTCGTTCTCA
77.24 A	Cod	mab1120 7U	LG15	TGCAGCCAGTCGTAGTAGACC
77.24 A	D4	mab245277U	LG15	TGCAGCGTATGTCGCAGTCTT
77.24 A	D5	mab147617U	LG15	TGCAGCTCGGTCTCGCCCCC
77.24 A	D5	mab6666 7U	LG15	TGCAGCCATGCCGACAAGAC
77.24 A	D5	mab7301 7U	LG15	TGCAGAGCTACGGGGCGGG
77.24 A	D5	mab7747 7U	LG15	TGCAGCTCCGACACCTCGTC
77.24 A	D4	mab258217U	LG15	TGCAGCTGTAAATTAGGGAG
85.94 S	Cod	mab1982 7U	LG15	TGCAGCGGTGCAGGCGTGG
85.94 A	D4	mab280287U	LG15	TGCAGGACGGGACGGTGCC
85.94 A	D4	mab229547U	LG15	TGCAGCTGGTCGGCGGCCCT
85.94 A	D4	mab247617U	LG15	TGCAGCCACGACGCAGCCTC
85.94 A	D4	mab277707U	LG15	TGCAGTAAAAGTGGCATCCAT
85.94 A	D5	mab139857U	LG15	TGCAGAAGCGAGGGACGAA
85.94 AB	D5	mab8818 7U	LG15	TGCAGGAGCACGGCCCCATC
85.94 A	D5	mab138327U	LG15	TGCAGCTAGGCTTTTGTATCT
85.94 A	D4	mab182347U	LG15	TGCAGGGGCGCGTGGGATG
85.94 A	D4	mab194387U	LG15	TGCAGCAGTGCTAATGGAC
85.94 A	D5	mab126357U	LG15	TGCAGCCGCTCGCTTCTTTAG
85.94 A	Cod	mab2286 7U	LG15	TGCAGATCGTTGTGCATGGC
85.94 A	D4	mab242367U	LG15	TGCAGAACCTTGATACATCAT
96.66 B	D4	mab171067U	LG15	TGCAGTCTCAAGGTAAAAAA
96.66 B	D4	mab253407U	LG15	TGCAGTCCGCCTTGAGCCGC
96.66 B	D4	mab245047U	LG15	TGCAGCTGCCGCTTCTTTCC
96.66 B	D5	mab6429 7U	LG15	TGCAGCTGAATGGCGGTGCA
96.66 B	D4	mab171087U	LG15	TGCAGTCTAATAGGGCAACTT
96.66 S	Cod	mab2966 7U	LG15	TGCAGGTCGAGCTACCGAAC
96.66 A	D5	mab157267U	LG15	TGCAGCACGGGCGGGCGCA
96.66 A	D5	mab157157U	LG15	TGCAGCATCATGCTTCGTCCG
96.66 A	D4	mab270197U	LG15	TGCAGCAGAGCTTTTGAGTG
96.66 A	D4	mab226157U	LG15	TGCAGAGAGGCCACTAAGTT
96.66 A	D4	mab254087U	LG15	TGCAGCAGTGTAAGCTGACA
96.66 A	D4	mab247867U	LG15	TGCAGCACGAGAAGCATAAG
100.35 B	D5	mab6489 7U	LG15	TGCAGGCGACGAGTAGCTGC
100.35 B	D4	mab227467U	LG15	TGCAGAAGAAGCGGGGCGG
100.35 B	D5	mab8477 7U	LG15	TGCAGACGTGCGAGCGCGG
100.35 S	Cod	mab2968 7U	LG15	TGCAGGGACATCTGTTGCAG
100.35 A	D5	mab157737U	LG15	TGCAGAAGATGGAAGACAAG
100.35 A	D5	mab121457U	LG15	TGCAGTCGCCCTCCACTGCG
100.35 AB	D5	mab138917U	LG15	TGCAGCCACAGCATACGTGA
100.35 A	D5	mab6703 7U	LG15	TGCAGCATACTTCAGTGGTCT
100.35 A	D5	mab130207U	LG15	TGCAGTTAGCAGTGAGAGAG
100.35 A	D5	mab7383 7U	LG15	TGCAGGAGAAGTCCATGGGG

108.93 B	D5	mab7541 7U	LG15	TGCAGACACTGTACAACCTG
108.93 S	Cod	mab684 7U	LG15	TGCAGTTGAGTGCTGGTGGAA
108.93 A	D5	mab8329 7U	LG15	TGCAGCAGCAGCAGCAGCTC
108.93 A	D5	mab9849 7U	LG15	TGCAGCCGCGGGCTGTGCTT
108.93 A	D5	mab145597U	LG15	TGCAGGCAGACAGAGGAGAC
108.93 AB	D5	mab102477U	LG15	TGCAGTCGACGCCCTTCGAA
108.93 A	D5	mab148527U	LG15	TGCAGCGGGGGGAGAGCGG
111.46 S	Cod	mab1006 7U	LG15	TGCAGTAGGGCCAAGAACCA
111.46 A	D4	mab198417U	LG15	TGCAGAGCGAGCGCAAGGC
111.46 A	D4	mab218357U	LG15	TGCAGCTACTAATCCGTCAAG
111.46 A	D5	mab121717U	LG15	TGCAGTAGTGGATCTGCTCT
111.46 A	D4	mab275957U	LG15	TGCAGCAGAGTCTACGGGT
111.46 A	D5	mab144857U	LG15	TGCAGGCGGCTAAGAGCCG
111.46 A	D5	mab136917U	LG15	TGCAGTTGCATGGTCAATAGA
111.46 AB	D5	mab111167U	LG15	TGCAGGAGTAGTGGTGTAGC
111.46 A	D5	mab143927U	LG15	TGCAGGGGGCGAGGGGAGT
111.46 A	D4	mab232777U	LG15	TGCAGCCAGACATCCAGGAG
111.46 A	D5	mab147787U	LG15	TGCAGCTCCAGCCTAGCGT
111.46 A	D4	mab267807U	LG15	TGCAGACGAGCGTGTGCGTG
111.46 A	D4	mab220397U	LG15	TGCAGCGACCCAGCACGCA
111.46 A	D5	mab8565 7U	LG15	TGCAGCGCGCTTCGATCTCC
111.46 A	D4	mab209177U	LG15	TGCAGTCGTGGAGTTGCTGC
118.07 S	Cod	mab1528 7U	LG15	TGCAGGCTCGGGATGAGGAC
118.07 A	D4	mab262657U	LG15	TGCAGCATGATCAAGAAGAG
118.07 A	D5	mab6701 7U	LG15	TGCAGAAGAAGCTGCAAGTG
118.07 A	D4	mab174607U	LG15	TGCAGCCAACATCAGGCAAC
118.07 A	D4	mab237947U	LG15	TGCAGCTGTGTATAGCTGCTC
118.07 A	D4	mab249597U	LG15	TGCAGTCTGCCTCGCTGAAC
118.07 A	D4	mab231637U	LG15	TGCAGATTTGTCCCCTTCGGT
118.07 A	D5	mab9185 7U	LG15	TGCAGGTAGCACAAAGGGTGC
118.07 A	D5	mab110997U	LG15	TGCAGGCATTTAAACAAAGAC
118.07 A	D5	mab107157U	LG15	TGCAGGCATGGGCCGCGGC
118.07 A	D5	mab100997U	LG15	TGCAGCCGAGGGACGGCAAA
123.59 S	Cod	mab5397 7U	LG15	TGCAGTCGCTCTACCGTGCC
123.59 A	D4	mab252997U	LG15	TGCAGCGTGTCTGCTCGATC
123.59 A	Cod	mab5169 7U	LG15	TGCAGCTCACAGTTATGGTGC
123.59 A	D4	mab232937U	LG15	TGCAGATAGGAGCTGGGAAA
123.59 A	D4	mab257507U	LG15	TGCAGTGACTGTGGATAGAA
123.59 A	D4	mab230157U	LG15	TGCAGCTGCGGGCCGACGTC
123.59 A	D4	mab262857U	LG15	TGCAGCGCGATAGCGTTAAC
123.59 A	D4	mab235347U	LG15	TGCAGTCCAGAGAGCAGATC
123.59 A	D4	mab251487U	LG15	TGCAGCCGCGCTCGTCGCGC
127.01 B	D4	mab233777U	LG15	TGCAGGCGTTTCTCGTGTCA
127.01 S	Cod	mab3761 7U	LG15	TGCAGCCTCATTCTCCCCTC
127.01 A	D5	mab153247U	LG15	TGCAGAGGGCGGGTGCGAA
127.91 S	Cod	mab4851 7U	LG15	TGCAGTCTGAACACCACCTTA
127.91 A	Cod	mab4781 7U	LG15	TGCAGCTACAACACACCCCA
129.49 S	Cod	mab3035 7U	LG15	TGCAGTCTTGAGAGCAAAA

129.49 A	D4	mab188637U	LG15	TGCAGCTATGGCGATTCAAT
129.49 A	D4	mab251017U	LG15	TGCAGATGTGCGTGCCGCGAG
129.49 A	D5	mab117117U	LG15	TGCAGCGATCGTACACCAGAA
129.49 A	D5	mab126527U	LG15	TGCAGCTGAGCGCCCAAGAA
131.98 S	Cod	mab478 7U	LG15	TGCAGGTTTGCGAACGCGAT
131.98 A	D4	mab208737U	LG15	TGCAGTGATGGTGTGGGTAC
131.98 A	D4	mab187617U	LG15	TGCAGCTGCGGCGAGGAGTC
131.98 A	D4	mab178537U	LG15	TGCAGTGCAACGGTCTGTGC
131.98 AB	D5	mab132927U	LG15	TGCAGCTGCTGCATGGCGCA
131.98 AB	D5	mab129847U	LG15	TGCAGCAGCGGTGGAGGCC
131.98 A	D5	mab108057U	LG15	TGCAGCCCTGCACGCAGCCA
131.98 A	D4	mab261857U	LG15	TGCAGCAGCGGCCGCGAGTC
131.98 A	D5	mab6152 7U	LG15	TGCAGGACGCGCTGACTCGA
131.98 A	D4	mab227677U	LG15	TGCAGAACAAGAATTAGTTAA
131.98 A	D4	mab251477U	LG15	TGCAGCGCCTCCTCCCGCC
131.98 A	D4	mab268777U	LG15	TGCAGAGCTGTATTTCATCGA
135.87 S	Cod	mab5072 7U	LG15	TGCAGAAATGCGCTGATGAC
135.87 A	D4	mab256797U	LG15	TGCAGGAGACGCGCTCCTCA
135.87 A	D4	mab265727U	LG15	TGCAGATTATAAACGCTCCCG
135.87 A	D4	mab276987U	LG15	TGCAGCTGCGCATACGGAGT
135.87 A	D4	mab267067U	LG15	TGCAGACCAAGACGAGATC
135.87 A	D4	mab257067U	LG15	TGCAGCTCATGTCCGCCGAA
135.87 A	D4	mab269627U	LG15	TGCAGGGAGTTCAGTGTGAA
135.87 A	D5	mab153637U	LG15	TGCAGAGCAGTGCAGGGTTG
135.87 A	D5	mab146397U	LG15	TGCAGGACAGGAGGCCAAG
135.87 A	D4	mab251337U	LG15	TGCAGTCTCGTCGGCATCGC
135.87 A	D5	mab137487U	LG15	TGCAGGTCTAATCATGGATT
135.87 A	D4	mab172057U	LG15	TGCAGGGCGACGCAACAGC
135.87 A	D5	mab105907U	LG15	TGCAGAATACAGTCTCACGAC
135.87 A	D4	mab198787U	LG15	TGCAGAGAGAGTAGCAAGGC
137.67 S	Cod	mab866 7U	LG15	TGCAGCAGACTTTCAGACACT
137.67 A	D4	mab174677U	LG15	TGCAGCATGCCGGTGGGCAA
137.67 A	D5	mab141357U	LG15	TGCAGTGCCACCATGATGAG
137.67 A	D4	mab174557U	LG15	TGCAGCCAGCCCCTCTGGCT
140.85 S	Cod	mab194 7U	LG15	TGCAGTTTCTCACAAGAGAC
140.85 A	D5	mab146217U	LG15	TGCAGGAGATGAGGGCGCT
140.85 A	Cod	mab4029 7U	LG15	TGCAGGGCGGGCACGGCGG
140.85 A	D5	mab144687U	LG15	TGCAGGCTCGTTCTCCCATC
140.85 A	Cod	mab2577 7U	LG15	TGCAGCGCGATGCCCTGTT
140.85 A	D5	mab6442 7U	LG15	TGCAGCTAGCCATCCCGACG
140.85 A	D4	mab213207U	LG15	TGCAGGCTGCTGCTGCGGG
140.85 A	D5	mab149677U	LG15	TGCAGCCTCACCGTGCTCCC
140.85 A	D5	mab140347U	LG15	TGCAGTTGAAGCACGACCTT
140.85 A	D5	mab157097U	LG15	TGCAGCCAAGCGCCGCCAAC
140.85 A	D5	mab118577U	LG15	TGCAGAACGGCTTCAACATC
140.85 AB	D5	mab7907 7U	LG15	TGCAGAGCTCGGCGCCGCGA
140.85 AB	D5	mab133487U	LG15	TGCAGCGTATCAGGCTGGCC
140.85 AB	D5	mab6796 7U	LG15	TGCAGCTAACTAGGAGCCAA

140.85 AB	D5	mab8012 7U	LG15	TGCAGGCGCAGGTTATTACTC
140.85 AB	D5	mab135007U	LG15	TGCAGCACCGCCGTGTGCTC
140.85 A	D5	mab162307U	LG15	TGCAGGAACCCACATTGAATC
140.85 A	D5	mab8065 7U	LG15	TGCAGCTGCGATGGCGCTTT
140.85 A	D4	mab250657U	LG15	TGCAGTTCAAAGACAGATGCC
140.85 A	D4	mab251127U	LG15	TGCAGCAGGCCGTGTGGTAGC
140.85 A	D5	mab125837U	LG15	TGCAGTGCAGTTGTACGACG
140.85 A	Cod	mab4489 7U	LG15	TGCAGCTTCGTGCCATCAAAC
140.85 A	D5	mab6696 7U	LG15	TGCAGCCAAGATAGCTAGCG
140.85 A	D5	mab6441 7U	LG15	TGCAGTCCACACCTCTTTAC
150.6 B	D4	mab171247U	LG15	TGCAGTCATATGATCATTGCA
150.6 S	Cod	mab5149 7U	LG15	TGCAGCCCGCCGGCCTGGTC
150.6 A	D4	mab229237U	LG15	TGCAGGCCGTGTGCAAGGAC
150.6 A	D4	mab174507U	LG15	TGCAGCCCAGCCTTCGCCAG
150.6 A	D4	mab245497U	LG15	TGCAGCGCAGGGCGGGCCA
150.6 A	D4	mab275937U	LG15	TGCAGTGGGGCGACCAAAT
150.6 A	D4	mab213417U	LG15	TGCAGGCGTTGGCTATCTGC
150.6 A	D4	mab227337U	LG15	TGCAGAAGCGTTGATGCTTT
150.6 A	D4	mab273657U	LG15	TGCAGGCCGTGCTCGCGCAC
150.6 A	D4	mab238507U	LG15	TGCAGCTCAGAGTTCGAAGT
150.6 A	D4	mab264237U	LG15	TGCAGAACGAGGAGTTCGAC
150.6 A	D4	mab171187U	LG15	TGCAGTCCCCGACGACTGA
152.41 B	D4	mab234747U	LG15	TGCAGCGGTCCATAGACAAA
152.41 B	D5	mab6440 7U	LG15	TGCAGTAGGGCGTGTCCCCT
152.41 S	Cod	mab195 7U	LG15	TGCAGCTCTGCTTGCCGTG
160.09 S	Cod	mab3840 7U	LG15	TGCAGTGACTTGGACTCTTGA
160.09 AB	D5	mab141567U	LG15	TGCAGTGACCAGCCCTCATCC
160.09 AB	D5	mab151007U	LG15	TGCAGCAGTCGGGCGGTGGA
160.09 AB	D5	mab122557U	LG15	TGCAGGGTCAACGCATGGGC
160.09 A	D5	mab142767U	LG15	TGCAGTAAATATTGATCTTCT
160.53 B	D4	mab266147U	LG15	TGCAGAGGGACAATATCTCC
160.53 B	D4	mab189737U	LG15	TGCAGCGGCGGAGGGGGTT
160.53 B	Cod	mab2627 7U	LG15	TGCAGCCTGAGTGCGAAGGC
160.53 B	Cod	mab5111 7U	LG15	TGCAGCTGGTCGGCGGCCTC
160.53 S	Cod	mab1472 7U	LG15	TGCAGCCCGCGGCCAAGCAT
160.75 S	Cod	mab1400 7U	LG15	TGCAGGATGCACCACACGTC
160.75 A	D4	mab212847U	LG15	TGCAGGGAGGGGCCGTGGA
160.75 A	D4	mab226247U	LG15	TGCAGAGAATGCAAGCATATC
160.75 A	D4	mab255297U	LG15	TGCAGCGCTCAAGTGGACAA
160.75 A	D5	mab163617U	LG15	TGCAGCGTGGTGCACGTA
160.75 A	D4	mab226487U	LG15	TGCAGACGTTGGGGAGTGAT
160.75 A	D4	mab194707U	LG15	TGCAGCAGGCGATGGCGGG
160.75 AB	Cod	mab203737U	LG15	TGCAGGCCAGGGCCGTTGCC
160.75 A	Cod	mab4646 7U	LG15	TGCAGCGCGTTGAGGTCCTT
160.75 A	D4	mab211207U	LG15	TGCAGGTGCGTGGGCAGCG
160.75 A	D4	mab279827U	LG15	TGCAGGCCATCACGAGAAAG
160.75 A	D4	mab172627U	LG15	TGCAGGCAATCTGCCGAACG
160.75 A	D4	mab261787U	LG15	TGCAGTGCCCTGTTCCGCC

160.75 A	D4	mab221967U	LG15	TGCAGCCACGCCGAGCCGGC
160.75 A	Cod	mab4433 7U	LG15	TGCAGATTGATCTCGGAGGC
160.75 A	Cod	mab975 7U	LG15	TGCAGCGCCTATGAAGATGC
160.75 AB	Cod	mab6773 7U	LG15	TGCAGCAGCAGGAACACAAA
160.75 AB	Cod	mab148447U	LG15	TGCAGCGGTCTAGGGTCTGGA
160.75 AB	Cod	mab156107U	LG15	TGCAGGGTCTCGGGCAAGCT
160.75 A	Cod	mab633 7U	LG15	TGCAGACTGAAGAACGAAGC
160.75 A	Cod	mab5717 7U	LG15	TGCAGCACGGAGCGCGCTG
160.75 A	D4	mab262767U	LG15	TGCAGCTTCCGATGAACTGC
160.75 A	D5	mab8524 7U	LG15	TGCAGCGGCGGCGGCTCAA
160.75 A	D5	mab8918 7U	LG15	TGCAGAGGGTACGGCGGGC
164.61 S	Cod	mab3627 7U	LG15	TGCAGCTCCGCTCGGCTGGG
164.61 A	D4	mab277457U	LG15	TGCAGCAGCAGCAGCACGCC
164.61 A	D4	mab198357U	LG15	TGCAGAGCGGGAGCGTGGT
164.61 A	D4	mab194417U	LG15	TGCAGCAGTCTTCAACGGCC
164.61 A	D4	mab207927U	LG15	TGCAGTGTGATGCGCAGGGC
164.61 A	D4	mab262377U	LG15	TGCAGGGTGTGCGTGAAGT
164.61 A	D4	mab173167U	LG15	TGCAGCTGTTGTGATGCCGC
164.61 AB	D5	mab100387U	LG15	TGCAGCTTGGCGCGAGTGCA
164.61 AB	D5	mab8597 7U	LG15	TGCAGAACGCGGTCAGGGCA
164.61 A	D5	mab143527U	LG15	TGCAGGTCAAACGATCGACG
164.61 A	D4	mab256207U	LG15	TGCAGCGTCGGGATCTGGAG
164.61 A	D5	mab159987U	LG15	TGCAGGTGAGGATATCATCTC
164.61 A	D4	mab253317U	LG15	TGCAGGGCAGCGCGGGGGC
164.61 A	D4	mab257087U	LG15	TGCAGGCGTCTCCCTTTGAT
164.61 A	Cod	mab1296 7U	LG15	TGCAGGCGCAGTTCCTTTCC
164.61 A	D4	mab220297U	LG15	TGCAGCGACGGCGCGAGCTC
164.61 A	D4	mab178547U	LG15	TGCAGTGCAACGGGCCTGGC
164.61 A	D5	mab135287U	LG15	TGCAGATTGGCACGGGCGCA
164.61 A	Cod	mab521 7U	LG15	TGCAGTGTGCAGTCCACGTA
164.61 A	D4	mab275347U	LG15	TGCAGAGGCGAGCGGGTGG
164.61 A	D5	mab9444 7U	LG15	TGCAGCAAATGGTGAGTGG
166.63 B	D5	mab109767U	LG15	TGCAGTGTCCCCGCTGTGA
166.63 B	D5	mab126287U	LG15	TGCAGCCTCCACATAGCCAC
166.63 B	Cod	mab146 7U	LG15	TGCAGCGAGTGC GGCTGCC
166.63 S	Cod	mab4542 7U	LG15	TGCAGCCGCTGGCGGTGGT
166.63 A	D4	mab181167U	LG15	TGCAGGTGACCTGTGGCAGA
166.63 A	D4	mab180817U	LG15	TGCAGGTGGGACCTATGTGG
166.63 A	D4	mab280987U	LG15	TGCAGCTGTGCGCCACCTC
166.63 A	D4	mab221377U	LG15	TGCAGCCCTTCCATGGCGTA
166.63 A	D4	mab209157U	LG15	TGCAGTCTACACAATCGTGG
166.63 A	Cod	mab2532 7U	LG15	TGCAGCTCCGTCGGCCTCAT
167.97 B	D5	mab8111 7U	LG15	TGCAGTTGAGGACGAGTATG
167.97 S	Cod	mab754 7U	LG15	TGCAGCAGCGGAAGACCTGC
167.97 AB	Cod	mab129347U	LG15	TGCAGGGGAGGAATGGATGC
167.97 A	Cod	mab5135 7U	LG15	TGCAGGAACCAATCATCCCC
167.97 A	D4	mab228677U	LG15	TGCAGGGTACGGACGCCGA
167.97 A	Cod	mab169 7U	LG15	TGCAGCATCATCAGCGGGCC

167.97 A	D4	mab278367U	LG15	TGCAGCGCAAACAAAGCAC
169.31 B	D4	mab177757U	LG15	TGCAGTGGTTTTTTTGGCCCT
169.31 B	D4	mab180387U	LG15	TGCAGGTTGCTAACATCACGT
169.31 B	D4	mab170377U	LG15	TGCAGAGAAGCCAGAGGGG
169.31 B	D4	mab177747U	LG15	TGCAGTGTAAACAACACCGAC
169.31 S	Cod	mab170 7U	LG15	TGCAGCATCATCAGCGGGCC
169.31 AB	Cod	mab6319 7U	LG15	TGCAGTAGCTGGCTGCACCC
169.31 A	Cod	mab2928 7U	LG15	TGCAGGACCTGCTGCTCTCG
169.31 A	D5	mab164607U	LG15	TGCAGCGAAGGTGACGGTGC
169.31 A	Cod	mab4984 7U	LG15	TGCAGCCGTGGGACGCGTAG
169.31 A	D4	mab257997U	LG15	TGCAGCGAGTGGCGCTGGTC
169.31 A	D4	mab258927U	LG15	TGCAGCCGACGACGACGACG
169.31 A	D4	mab237277U	LG15	TGCAGGAGGTAACATTTGGA
169.31 A	Cod	mab3345 7U	LG15	TGCAGGGGGTGTGATGTGAC
169.31 A	D4	mab256697U	LG15	TGCAGCGCCTCCGACAGCAT
169.31 A	D4	mab169607U	LG15	TGCAGCCTCACTCCAAACGT
169.31 A	D4	mab260057U	LG15	TGCAGGCTGCTATTTGCGCTT
169.31 A	D5	mab151037U	LG15	TGCAGCAGTCCAATCCGCACT
169.31 A	D4	mab169627U	LG15	TGCAGCCCGCCAGCCGAAGC
169.31 A	Cod	mab4081 7U	LG15	TGCAGCCAGCGCGTACGGCC
169.31 A	D4	mab243077U	LG15	TGCAGTTCATTACCATTTCTT
169.31 A	D4	mab251797U	LG15	TGCAGGAGTCCGTAGGCCAA
169.31 A	D4	mab270877U	LG15	TGCAGCGTGTCTCTCGACATC
169.31 AB	D5	mab144397U	LG15	TGCAGGGAGCTCTGGCTGGT
169.31 A	D5	mab128827U	LG15	TGCAGAAGTATGTATTGCGTG
174.91 B	D5	mab113047U	LG15	TGCAGCCAGGTCGTGCGCGC
174.91 S	Cod	mab144 7U	LG15	TGCAGCCGCCCCACCCGCCA
174.91 A	D5	mab142367U	LG15	TGCAGTAGGAATCTTGCCATC
174.91 A	D4	mab262877U	LG15	TGCAGTGGAGTGGCGAGGCC
174.91 A	D5	mab9250 7U	LG15	TGCAGGGACTCTGGCAGGGC
177.42 B	D4	mab184167U	LG15	TGCAGGCGCATAGGCGGACC
177.42 B	D4	mab251957U	LG15	TGCAGACAGCTGCTGCTGCT
177.42 B	D4	mab266087U	LG15	TGCAGGGTGATGCTGTAGGA
177.42 B	D4	mab218097U	LG15	TGCAGCTCAGGACAAGATTTG
177.42 S	Cod	mab715 7U	LG15	TGCAGGACCGAACGCCGCC
177.42 A	Cod	mab1060 7U	LG15	TGCAGCAACTGTAGCTCTGG
177.42 A	D5	mab9642 7U	LG15	TGCAGCGGCTGATCGTGGAG
177.42 A	D4	mab192497U	LG15	TGCAGCCGCCCTGGCCGCCA
179.7 S	Cod	mab644 7U	LG15	TGCAGAGTAGAACCCTACTCG
179.7 A	D4	mab181047U	LG15	TGCAGGTGCACGTAGCTGAG
179.7 A	D5	mab127747U	LG15	TGCAGCAATATTGGTGGAGA
179.7 A	D5	mab9653 7U	LG15	TGCAGCCGCCACCACAACGCT
179.7 A	D4	mab218887U	LG15	TGCAGCGGTGAACGAGTTCT
179.7 A	D5	mab6376 7U	LG15	TGCAGCAGAAGGATGGCCGC
179.7 A	D5	mab7822 7U	LG15	TGCAGCTGCATCTGGGAGA
179.7 A	Cod	mab4910 7U	LG15	TGCAGCGTGGAGGAGGAAG
179.7 A	D5	mab7312 7U	LG15	TGCAGTCTGGTTCATGACGAG
179.7 A	D5	mab163047U	LG15	TGCAGCTCTGCATCCAGCATC

179.7 A	D5	mab6377 7U	LG15	TGCAGGACCGCCAGTGCCTC
184.27 S	Cod	mab1859 7U	LG15	TGCAGGCATCAAAGTGTGG
186.99 S	Cod	mab1887 7U	LG15	TGCAGGTGGCGCACCACTAC
186.99 A	D4	mab248267U	LG15	TGCAGTCTGTACTCCTCTTTC
186.99 A	D4	mab255447U	LG15	TGCAGTAAAGCCTGGCACAA
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189.7 B	D5	mab9096 7U	LG15	TGCAGCCGCGAGCGCCATGC
189.7 B	D4	mab258947U	LG15	TGCAGGCAGCGGAGCAGAA
189.7 S	Cod	mab710 7U	LG15	TGCAGCCGCGGCGAGCGGC
189.7 A	D5	mab127177U	LG15	TGCAGCAGGGAGATCTCAAA
189.7 AB	D5	mab6979 7U	LG15	TGCAGTCGTCCCCAGATACA
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189.7 AB	D5	mab9688 7U	LG15	TGCAGTGCTTCGTCGAGGAA
189.7 AB	D5	mab146727U	LG15	TGCAGCTTCGGCGTTGCGCG
189.7 AB	D5	mab126887U	LG15	TGCAGCCACTGCGTCGAGAA
189.7 A	D5	mab112257U	LG15	TGCAGCGGCGCTTTGTAACA
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189.7 A	D5	mab113477U	LG15	TGCAGCAGCAGGGGCATGGA
189.7 A	D5	mab127267U	LG15	TGCAGCAGCCGTGCGGCCCC
189.7 A	D5	mab110947U	LG15	TGCAGGCCGCGCTGGCCTCC
189.7 A	D5	mab128477U	LG15	TGCAGACGGCCAAGTCAAG
189.7 A	D5	mab6262 7U	LG15	TGCAGAACAGTGATGTTGG
189.7 A	D5	mab8257 7U	LG15	TGCAGGGGGCTCGAGGGAG
189.7 A	D5	mab145777U	LG15	TGCAGGATTTTAAACGACG
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194.52 A	D5	mab154167U	LG15	TGCAGACGCGACGGTGTGA
194.52 A	D4	mab261487U	LG15	TGCAGCGCAGAGCTACCATC
194.52 A	D4	mab253247U	LG15	TGCAGGCCGCGCTCTCGGC
194.52 A	Cod	mab1724 7U	LG15	TGCAGATCGGACTCTTGCA
194.52 A	D5	mab143147U	LG15	TGCAGGTGGAATTTGGATCG
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