

2. On-line melléklet. Molnár István: Az idegenfajú génátvitelt segítő strukturális genom térképezéshez. A melléklet tartalmazza az *Aegilops biuncialis* (UUMM) MvGB382 x MvGB642 kétszárú (LG1-16) és a hozzájuk rendelt kromoszómákat (1-7U, 1-7M) a kapcsoltsági csoportokat alkotó SNP-eket együtt. A kapcsoltsági csoportok kromoszómákhoz történő hozzárendelése során figyelembe vettük a kapcsoltsági csoportokat, valamint a diploid genomdonor fajok (*Ae. comosa* és *Ae. umbellulata*) áramlási citometriai marker adatokat, ezért az on-line melléklet szintén tartalmazza a markerek szekvenciáival a hexaploid genomon végzett BLASTn keresések legjobb találatainak adatait., valamint a markereknek a diploid genomon adott eredményeit. Az SNP DArT markerek diploid *Aegilops* fajok DNS mintáin adott eredmények formátumban vannak megadva, melyek jelentése a következő: 0-az adott minta a referencia (azaz homozigóta); 2: az adott minta a referencia és SNP allélre nézve heterozigóta; '-': az adott minta nem tartalmazza az allélt, valamint a térképszerkesztés és BLASTn keresés részletei megtalálhatók az értekezés 'Alkalmazott módszerek' című fejezetében.

<i>Ae. biuncialis</i>				
Marker	Marker szekvencia	Kapcsoltsági csoport (LG)	Kr.	cM
1 mab1266	TGCAGGTCGALG_16		1M	0
2 mab5625	TGCAGCTGGGLG_16		1M	4.08
3 mab4307	TGCAGTACAA LG_16		1M	5.25
4 mab1676	TGCAGGTTGALG_16		1M	7.14
5 mab5621	TGCAGAAACT(LG_16		1M	8.79
6 mab2779	TGCAGCGTCA(LG_16		1M	10.44
7 mab3375	TGCAGCACCA LG_16		1M	11.61
8 mab554	TGCAGCTACG LG_16		1M	12.78
9 mab2467	TGCAGCAGCALG_16		1M	13.95
10 mab3689	TGCAGGCGCTLG_16		1M	14.89
11 mab1846	TGCAGGCGAGLG_16		1M	16.06
12 mab3869	TGCAGCGCGCLG_16		1M	17.47
13 mab1679	TGCAGAAGTT(LG_16		1M	18.17
14 mab5134	TGCAGTGAGT(LG_16		1M	18.63
15 mab5260	TGCAGATTAGTLG_16		1M	19.33
16 mab3308	TGCAGCCTTA LG_16		1M	20.5
17 mab2448	TGCAGGCTCGLG_16		1M	20.96
18 mab5333	TGCAGGAGGCLG_16		1M	21.9
19 mab1570	TGCAGACTTT(LG_16		1M	22.6
20 mab2251	TGCAGCAAAGLG_16		1M	23.3
21 mab33	TGCAGGAAAALG_16		1M	24.47
22 mab5256	TGCAGCTGCGLG_16		1M	24.7
23 mab1271	TGCAGCTGCALG_16		1M	25.16
24 mab4732	TGCAGTTGGC LG_16		1M	25.39
25 mab5079	TGCAGAAACALG_16		1M	25.85
26 mab3250	TGCAGACTGC.LG_16		1M	26.08
27 mab5655	TGCAGGCTAT(LG_16		1M	27.73
28 mab5350	TGCAGGGAGCLG_16		1M	29.14
29 mab2793	TGCAGGACCCLG_16		1M	29.6
30 mab1870	TGCAGTGCAC(LG_16		1M	30.3
31 mab26	TGCAGAGCGALG_16		1M	30.76
32 mab5590	TGCAGGCTGGLG_16		1M	31.22
33 mab4288	TGCAGGGCGTLG_16		1M	31.92
34 mab4083	TGCAGCTCCT LG_16		1M	33.58

Legjobb BLASTn találat

T. aestivum A genom*T. aestivum*

Kr.	start	end	e-érték	Azonossági %	Kr.
5A	5.51E+08	5.51E+08	1.33E-18	91.18	1B
1A	1.18E+08	1.18E+08	1.17E-25	98.55	1B
1A	1145459	1145510	1.98E-16	98.08	1B
1A	39410626	39410662	1.43E-05	91.89	1B
7A	1.5E+08	1.5E+08	0.000174	87.50	1B
1A	60358201	60358269	6.06E-23	95.65	1B
1A	33398351	33398394	9.6E-08	90.91	1B
2A	4.92E+08	4.92E+08	3.8	95.46	3B
5A	1.01E+08	1.01E+08	0.007	87.18	6B
1A	14840059	14840115	3.58E-13	91.23	1B
1A	38855000	38855064	3.82E-19	93.85	1B
1A	3.39E+08	3.39E+08	8.42E-15	97.96	1B
1A	2.44E+08	2.44E+08	1.62E-17	94.92	1B
1A	2.38E+08	2.38E+08	1.43E-05	92.31	1B
1A	3.38E+08	3.38E+08	8.42E-15	84.42	1B
1A	4.6E+08	4.6E+08	2.26E-09	89.80	1B
1A	3.96E+08	3.96E+08	6.06E-23	95.65	1B
1A	4.27E+08	4.27E+08	1.17E-25	98.55	1B
1A	4.72E+08	4.72E+08	1.03E-13	88.89	1B
2A	4.76E+08	4.76E+08	7.38E-22	94.20	1B
1A	5.32E+08	5.32E+08	4.66E-18	91.30	1B
1A	5.31E+08	5.31E+08	4.66E-18	93.55	1B
1A	5.35E+08	5.35E+08	8.42E-15	91.53	1B
1A	5.39E+08	5.39E+08	7.38E-22	94.20	1B
1A	5.46E+08	5.46E+08	6.06E-23	95.65	1B
1A	5.59E+08	5.59E+08	7.88E-09	97.37	
1A	5.64E+08	5.64E+08	3.35E-07	77.14	1B
1A	5.78E+08	5.78E+08	2.57E-21	96.83	1B
7A	6E+08	6E+08	1.1	100.00	1B
					1B
1A	5.81E+08	5.81E+08	1.25E-12	94.00	1B
1A	5.72E+08	5.72E+08	6.91E-16	96.23	1B
1A	5.86E+08	5.86E+08	1.74E-23	98.46	2B
1A	5.93E+08	5.93E+08	6.06E-23	95.65	1B

γ B genom				<i>T. aestivum</i> D genom	
start	end	e-érték	Azonossági %	Kr.	start
1.8E+08	1.8E+08	9.43E-21	94.03	5D	5.12E+08
1.71E+08	1.71E+08	1.5E-24	97.10	1D	1.12E+08
1199382	1199431	2.53E-15	98.00	1D	2067029
59604458	59604494	0.000015	91.89	1D	39951112
65768451	65768519	1.71E-17	89.86	1D	46165018
99599170	99599238	1.5E-24	97.10	1D	62418982
53365303	53365345	1.95E-10	95.35	1D	35060530
5.62E+08	5.62E+08	4.58E-12	95.65	1D	25458245
12118307	12118333	0.094	92.59	1D	5348504
20047938	20048000	0.002	76.19	7D	4.75E+08
59057488	59057549	9.43E-21	96.77	1D	39571826
3.5E+08	3.5E+08	1.08E-13	95.92	1D	2.62E+08
2.7E+08	2.7E+08	3.52E-07	100.00	1D	1.95E+08
2.66E+08	2.66E+08	0.33	100.00	1D	1.92E+08
3.49E+08	3.49E+08	5.95E-17	86.84	1D	2.62E+08
4.82E+08	4.82E+08	4.89E-18	96.49	1D	3.6E+08
4.28E+08	4.28E+08	1.5E-24	97.10	1D	3.16E+08
4.44E+08	4.44E+08	1.5E-24	97.10	1D	3.3E+08
4.97E+08	4.97E+08	8.28E-09	85.71	1D	3.72E+08
4.66E+08	4.66E+08	3.29E-20	92.75	1D	3.45E+08
5.86E+08	5.86E+08	0.002	72.62	1D	4.34E+08
5.84E+08	5.84E+08	9.43E-21	96.77	1D	4.33E+08
5.96E+08	5.96E+08	4.01E-19	96.61	1D	4.39E+08
6.03E+08	6.03E+08	2.7E-21	96.83	1D	4.43E+08
6.18E+08	6.18E+08	2.7E-21	94.29	1D	4.5E+08
6.53E+08	6.53E+08	0.000015	75.71	1D	4.66E+08
6.7E+08	6.7E+08	5.22E-24	97.06	1D	4.71E+08
6.7E+08	6.7E+08	6.36E-23	95.65	1D	4.81E+08
6.65E+08	6.65E+08	7.25E-16	91.80	1D	4.81E+08
6.74E+08	6.74E+08	3.08E-14	96.00	1D	4.78E+08
6.63E+08	6.63E+08	3.08E-14	94.34	1D	4.84E+08
68586112	68586149	5.22E-05	89.47	1D	4.77E+08
6.87E+08	6.87E+08	1.23E-25	98.55	1D	4.88E+08

DArTseq markerekkel detektált S
Izolált kromoszómák DNS mintái

end e-érték Azonossági %

1M 1U 2M

5.12E+08	7.38E-21	94.03
1.12E+08	1.17E-24	97.10
2067078	1.98E-15	98.00
39951148	2.75E-07	94.60
46165086	4.97E-23	95.65
62419050	9.6E-26	98.55
35060577	1.03E-12	94.12
25458290	2.94E-13	97.83
5348572	4.97E-23	95.65
4.75E+08	3.1	91.67
39571887	6.06E-22	98.39
2.62E+08	8.42E-14	95.92
1.95E+08	2.58E-20	98.31
1.92E+08	1.17E-24	98.51
2.62E+08	9.6E-26	98.55
3.6E+08	1.33E-17	96.43
3.16E+08	6.06E-22	95.52
3.3E+08	1.17E-24	97.10
3.72E+08	1.52E-10	87.72
3.45E+08	2.11E-21	93.06
4.34E+08	7.38E-21	94.20
4.33E+08	3.82E-18	93.55
4.39E+08	5.67E-16	93.10
4.43E+08	1.17E-24	97.10
4.5E+08	1.17E-24	97.10
4.66E+08	6.47E-09	97.37
4.71E+08	1.03E-12	82.86
4.81E+08	1.17E-24	97.10
4.81E+08	1.17E-24	97.10
4.78E+08	2.11E-21	98.36
4.84E+08	2.41E-14	96.00
4.77E+08	1.63E-16	83.54
4.88E+08	3.35E-25	100.00
4.94E+08	1.17E-24	97.10

-	-	-
1	-	-
-	-	-
1	-	1
1	-	-
0	-	-
0	-	0
-	-	-
1	-	1
-	-	-
-	-	-
0	-	-
1	-	1
0	-	-
0	-	-
1	-	1
0	-	-
0	-	0
0	-	0
-	-	-
0	-	-
-	-	-
-	-	-
1	-	1
0	-	0
0	-	0
-	-	-
-	-	-
1	-	1
0	-	0
0	-	-
1	-	-
1	-	-

NP-k alélváltozatai

2U 3M 3U 4M 4U 5M 5U 6M

-	1	-	-	-	-	-	-
-	-	-	1	-	-	-	-
-	-	-	-	-	-	-	-
-	1	-	1	-	-	-	-
-	-	-	1	-	-	-	-
-	0	-	0	-	-	-	-
-	-	-	0	-	-	-	0
-	-	-	-	-	-	-	-
-	-	-	1	-	1	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	0	-	0	-	-	-	0
-	1	-	1	-	-	-	-
-	-	-	0	-	-	-	-
-	0	-	0	-	-	-	-
-	1	-	1	-	-	-	-
-	0	-	0	-	-	-	-
-	-	-	1	-	-	-	-
-	0	-	0	-	-	-	-
-	0	-	0	-	-	-	0
-	-	-	-	-	-	-	-
-	-	-	0	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	0	-	-	-	-
-	-	-	0	-	0	-	0
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	1	-	1	-	-	-	1
-	-	-	0	-	0	-	0
-	0	-	0	-	-	-	-
-	-	-	1	-	-	-	-
-	1	-	1	-	-	-	1

6U 7M 7U Teljes genomi DNS
 Ae. comosa Ae. umbellulata
 (MM) (UU)

-	-	-	-	-
-	-	-	1	-
-	-	-	-	-
-	-	-	1	-
-	-	-	1	-
-	-	-	0	-
-	0	-	0	-
-	-	-	-	-
-	-	-	1	-
-	-	-	-	-
-	-	-	-	-
-	-	-	0	-
-	-	-	1	-
-	-	-	0	-
-	-	-	0	-
-	-	-	1	-
-	-	-	0	-
-	-	-	1	-
-	-	-	0	-
-	-	-	0	-
-	-	-	-	-
-	-	-	0	-
-	-	-	-	-
-	-	-	1	-
-	-	-	0	-
-	0	-	0	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	0	-
-	-	-	0	-
-	-	-	1	-
-	-	-	1	-

<i>Ae. biuncialis</i>					Legjobb BL
Marker	Marker szekvencia	Kapcsoltsági csoport (LG)	Kr.	cM	<i>T. aestivum</i> Kr.
1	mab983	TGCAGCTTCC	LG13	1U	0.7A
2	mab1366	TGCAGATGGT	LG13	1U	3.195A
3	mab4067	TGCAGACCTC	LG13	1U	8.811A
4	U123-mab	TGCAGGAGA	LG13	1U	14.911A
5	mab2757	TGCAGCGACC	LG13	1U	22.831A
6	mab1162	TGCAGGAACT	LG13	1U	26.461A
7	mab2	TGCAGGCGTC	LG13	1U	28.481A
8	mab4305	TGCAGCCGAC	LG13	1U	30.995A
9	A-mab223	TGCAGCTCCT	LG13	1U	34.442A
10	G-mab223	TGCAGCTCCT	LG13	1U	34.662A
11	M12-mab5	TGCAGAGGAC	LG13	1U	37.61A
12	mab1784	TGCAGAGAG	LG13	1U	41.025A
13	mab1164	TGCAGCCAAC	LG13	1U	46.81A
14	mab1837	TGCAGCACCA	LG13	1U	53.317A
15	mab4112	TGCAGGTCAT	LG13	1U	54.897A
16	mab3729	TGCAGCCTGT	LG13	1U	58.067A
17	M12-mab5	TGCAGCGGC	LG13	1U	63.33
18	mab1985	TGCAGATGCT	LG13	1U	64.451A
19	fM2-mab2	TGCAGGCCAC	LG13	1U	66.491A
20	mab1891	TGCAGCACA	LG13	1U	67.844A
21	mab626	TGCAGCAGAC	LG13	1U	70.331A
22	T2-mab18	TGCAGGCGAC	LG13	1U	72.131A
23	mab2760	TGCAGGGCGT	LG13	1U	74.611A
24	mab28	TGCAGCGGGT	LG13	1U	76.181A
25	fU1-G-mab	TGCAGGCGTC	LG13	1U	76.41A
26	mab18	TGCAGTGTCG	LG13	1U	77.291A
27	mab566	TGCAGGACGT	LG13	1U	77.735A
28	fM2-mab2	TGCAGGCGCT	LG13	1U	78.41A
29	fM2-mab2	TGCAGCTAGC	LG13	1U	78.841A
30	fU1-mab75	TGCAGAGGG	LG13	1U	79.731A
31	mab3713	TGCAGAGCG	LG13	1U	80.171A
32	mab3669	TGCAGGGCAC	LG13	1U	81.511A
33	fU1-mab65	TGCAGCGGC	LG13	1U	82.181A
34	mab481	TGCAGTGAC	LG13	1U	82.851A
35	U123-mab	TGCAGCCTCC	LG13	1U	84.651A
36	mab2311	TGCAGGGCGT	LG13	1U	85.771A
37	M12-mab4	TGCAGAATG	LG13	1U	88.023A
38	mab4557	TGCAGAAAAC	LG13	1U	92.591A
39	U123-mab	TGCAGGGCC	LG13	1U	95.31A
40	mab4349	TGCAGGAAC	LG13	1U	98.71A
41	mab2463	TGCAGCCATT	LG13	1U	99.371A
42	mab1565	TGCAGCTTAT	LG13	1U	100.513A
43	mab1339	TGCAGTGCAC	LG13	1U	101.411A
44	mab2145	TGCAGCTCGT	LG13	1U	103.221A

45 M12-mab5TGCAGACCTALG13	1U	103.44	1A
46 fU1-mab81TGCAGTAGAGLG13	1U	105.92	1A
47 mab1379 TGCAGGCTGCLG13	1U	107.96	1A
48 mab4441 TGCAGAAGGCLG13	1U	109.54	7A
49 fM2-mab27TGCAGGTGCTLG13	1U	109.76	3A
50 fM2-mab3(TGCAGCGGC/LG13	1U	110.88	5A
51 mab3528 TGCAGCTCAGLG13	1U	118.36	4A
52 mab3503 TGCAGAAGGCLG13	1U	119.48	1A
53 A-mab219.TGCAGGCGA(LG13	1U	120.37	6A
54 M12-mab4TGCAGGTGGCLG13	1U	123.08	1A
55 M12-mab5TGCAGTGAAGLG13	1U	127.19	4A
56 mab357 TGCAGCAGCALG13	1U	133.67	1A
57 fU1-mab65TGCAGGGCC(LG13	1U	135.24	1A
58 fM2-mab28TGCAGGGCG/LG13	1U	138.42	1A
59 U123-mab!TGCAGGCGG(LG13	1U	139.54	7A
60 mab1752 TGCAGGGACC(LG13	1U	142.02	1A
61 mab4572 TGCAGCAGGTLG13	1U	147.06	1A
62 mab4772 TGCAGCGATGLG13	1U	149.78	2A

.ASTn találat

1 A genom

T. aestivum B genom

start	end	e-érték	Azonossági %	Kr.	start
3.08E+08	3.08E+08	0.34	95.65	7B	6.77E+08
6E+08	6E+08	1.17E-06	97.06	4B	6.64E+08
5491449	5491517	1.42E-24	97.10	1B	6474240
9788501	9788564	1.62E-17	92.19	1B	29514265
13806112	13806180	2.75E-27	100.00	1B	17537026
13980013	13980059	6.41E-13	95.75	1B	17698382
14792074	14792135	7.6E-21	96.77	1B	19720113
5.44E+08	5.44E+08	1.7	95.46	4B	12438426
7.73E+08	7.73E+08	0.007	78.33	7B	6.64E+08
7.73E+08	7.73E+08	0.28	76.67	7B	6.64E+08
20245587	20245655	6.06E-23	95.65	6B	5.04E+08
85256549	85256579	0.31	87.88	1B	4.54E+08
71425327	71425395	1.42E-24	97.10	3B	7.44E+08
3.94E+08	3.94E+08	5.8	80.00	1B	22657317
1.11E+08	1.11E+08	6.57E-14	92.59	1B	34275626
1.41E+08	1.41E+08	0.39	87.10	5B	23772141
				1B	40805991
97962538	97962563	0.31	92.31	6B	6.62E+08
30118943	30118986	1.03E-13	100.00	1B	47606087
2.41E+08	2.41E+08	6.06E-23	95.65	2B	2.79E+08
37505031	37505094	1.78E-16	90.63	1B	56501503
38855000	38855064	2.65E-20	95.39	1B	59057488
41368065	41368127	1.84E-22	98.41	1B	61614727
42254589	42254657	7.38E-22	94.20	1B	62722658
99153358	99153392	3.56E-05	91.43	1B	1.33E+08
31946257	31946326	1.66E-10	81.43	1B	94300918
2E+08	2E+08	3.4	91.30		
58370125	58370193	7.38E-22	94.20	1B	95336139
1.02E+08	1.02E+08	6.91E-16	88.41	1B	1.58E+08
3.13E+08	3.13E+08	4.8E-13	100.00	1B	3.69E+08
3.38E+08	3.38E+08	2.11E-22	95.59	1B	3.5E+08
3.68E+08	3.68E+08	1.79E-12	97.73	1B	3.96E+08
3.46E+08	3.46E+08	7.76E-09	94.87	3B	5.22E+08
4.27E+08	4.27E+08	2.11E-22	95.59	1B	4.44E+08
4.35E+08	4.35E+08	1.98E-16	89.86	1B	4.52E+08
4.35E+08	4.35E+08	6.06E-23	95.65	1B	4.52E+08
1.81E+08	1.81E+08	4.36E-12	84.06		
4.65E+08	4.65E+08	4.98E-05	79.37	1B	4.91E+08
4.67E+08	4.67E+08	3.14E-20	92.75	1B	4.92E+08
4.74E+08	4.74E+08	4.32E-15	97.96	1B	4.99E+08
4.74E+08	4.74E+08	1.17E-25	98.55	3B	5.56E+08
3.1E+08	3.1E+08	1.7	95.46	2B	7.4E+08
4.81E+08	4.81E+08	2.47E-08	85.19	1B	5.1E+08
4.88E+08	4.88E+08	7.38E-22	95.52	1B	5.23E+08

4.88E+08	4.88E+08	6.06E-23	95.65	1B	5.23E+08
4.92E+08	4.92E+08	0.000098	81.63	3B	65153901
4.93E+08	4.93E+08	0.14	100.00	4B	39124600
6.34E+08	6.34E+08	1.28E-05	79.66	4B	3.46E+08
64280804	64280862	1.17E-06	81.36	3B	82624882
5.21E+08	5.21E+08	4.18E-18	93.55	1B	5.34E+08
1.26E+08	1.26E+08	0.16	92.31	1B	5.45E+08
3.17E+08	3.17E+08	0.29	91.67	1B	5.48E+08
4.56E+08	4.56E+08	9.6E-08	81.97	1B	5.55E+08
5.1E+08	5.1E+08	2.75E-27	100.00	1B	5.57E+08
6.61E+08	6.61E+08	4.66E-18	100.00	1B	5.61E+08
5.14E+08	5.14E+08	6.63E-12	95.56	1B	5.64E+08
5.16E+08	5.16E+08	0.007	96.00	1B	5.66E+08
24328129	24328165	0.003	86.49	7B	1.25E+08
4.75E+08	4.75E+08	4.08E-06	79.69	5B	6.39E+08
7682264	7682285	0.49	95.46	2B	4.02E+08
5.18E+08	5.18E+08	6.06E-23	95.65	1B	5.71E+08
6.38E+08	6.38E+08	0.024	92.31	1B	5.72E+08

end	e-érték	Azonossági %	<i>T. aestivum</i> D genom Kr.	start	end
6.77E+08	0.35	95.65			
6.64E+08	8.84E-15	88.06	4D	5.06E+08	5.06E+08
6474308	1.5E-24	97.10	1D	3961792	3961860
29514333	3.29E-20	92.75	1D	8281647	8281710
17537094	4.01E-19	91.30	1D	11639640	11639708
17698430	2.35E-12	93.88	1D	11879572	11879609
19720173	1.44E-17	93.44	1D	13728680	13728741
12438449	1.6	91.67	7D	1.02E+08	1.02E+08
6.64E+08	2.69E-14	90.32	6D	2.06E+08	2.06E+08
6.64E+08	1.14E-12	88.71	1D	4.84E+08	4.84E+08
5.04E+08	1.23E-06	79.41	1D	18242898	18242966
4.54E+08	1.2	95.65	2D	1.07E+08	1.07E+08
7.44E+08	6.79E-10	83.87	6D	4.33E+08	4.33E+08
22657357	4.39E-08	92.68	1D	3301506	3301551
34275679	1.52E-09	87.04	5D	3.39E+08	3.39E+08
23772171	6.53E-05	93.55	6D	87121480	87121502
40806061	1.31E-12	84.51	1D	25442743	25442812
6.62E+08	4	88.89	5D	5.57E+08	5.57E+08
47606155	1.5E-24	97.10	1D	29839391	29839459
2.79E+08	1.15E-19	90.41	2D	5.66E+08	5.66E+08
56501566	7.7E-15	89.06	1D	38259390	38259453
59057549	6.55E-22	98.39	1D	39571826	39571887
61614789	1E-19	95.24	1D	41566224	41566286
62722716	4.01E-19	96.61	1D	42712168	42712236
1.33E+08	3.74E-05	91.43	1D	49973462	49973496
94300979	8.23E-21	96.77	1D	58817048	58817111
			1D	59509584	59509619
95336207	6.36E-23	95.65	1D	4.44E+08	4.44E+08
1.58E+08	1.4E-18	91.30	1D	1.03E+08	1.03E+08
3.69E+08	1.45E-13	100.00	1D	2.34E+08	2.34E+08
3.5E+08	2.22E-22	95.59	1D	2.62E+08	2.62E+08
3.96E+08	2.29E-11	95.46	1D	2.95E+08	2.95E+08
5.22E+08	4.22E-06	96.88	6D	2.51E+08	2.51E+08
4.44E+08	2.22E-22	95.59	1D	3.29E+08	3.29E+08
4.52E+08	4.01E-19	91.30	6D	5824360	5824428
4.52E+08	1.5E-24	97.10	1D	3.55E+08	3.55E+08
			2D	3.56E+08	3.56E+08
4.91E+08	1.95E-10	83.10	1D	3.67E+08	3.67E+08
4.92E+08	5.95E-17	84.62	1D	3.68E+08	3.68E+08
4.99E+08	4.53E-15	97.96	1D	3.74E+08	3.74E+08
5.56E+08	0.008	93.10	1D	3.74E+08	3.74E+08
7.4E+08	1.6	95.46	1D	3.78E+08	3.78E+08
5.1E+08	3.28E-13	88.33	1D	3.8E+08	3.8E+08
5.23E+08	8.84E-15	86.96	1D	3.91E+08	3.91E+08

5.23E+08	8.84E-15	86.96	1D	3.9E+08	3.9E+08
65153925	0.65	92.00	7D	1.68E+08	1.68E+08
39124621	1.9	95.46	1D	3.93E+08	3.93E+08
3.46E+08	0.082	82.00	7D	3.05E+08	3.05E+08
82624940	1.23E-06	81.36	3D	51681799	51681857
5.34E+08	6.75E-22	96.88	1D	3.98E+08	3.98E+08
5.45E+08	8.19E-12	93.88	1D	4.05E+08	4.05E+08
5.48E+08	0.088	89.29	1D	4.08E+08	4.08E+08
5.55E+08	1.23E-25	98.55	1D	4.12E+08	4.12E+08
5.57E+08	1.5E-24	97.10	1D	4.13E+08	4.13E+08
5.62E+08	7.74E-22	94.20	1D	4.15E+08	4.15E+08
5.64E+08	6.55E-12	97.78	1D	4.17E+08	4.17E+08
5.66E+08	0.007	96.00	1D	4.19E+08	4.19E+08
1.25E+08	5.04E-07	88.64	1D	4.2E+08	4.2E+08
6.39E+08	7.25E-16	88.24	7D	87007008	87007075
4.02E+08	1.8	100.00	2D	95006954	95006971
5.71E+08	6.36E-23	95.65	1D	4.22E+08	4.22E+08
5.72E+08	0.000171	96.43	1D	4.23E+08	4.23E+08

DARtseq markerekkel detektált SNP-k alélvi

e-érték Azonossági %

1M 1U 2M 2U

-	-	-	-
3.14E-19	91.30	-	-
1.17E-24	97.10	-	-
2.58E-20	95.31	-	-
9.6E-26	98.55	0	-
4.14E-08	94.74	1	-
6.09E-21	96.77	1	-
1.3	86.21	0	-
9.6	88.46	-	-
0.79	80.00	-	-
4.97E-23	95.65	-	-
3.1	85.71	1	-
3.14E-19	91.30	-	-
6.85E-11	93.48	1	-
4.32E-15	96.08	0	-
1.4	91.30	1	1
7.89E-08	80.00	0	-
2.11E-21	95.46	0	0
1.17E-24	97.10	-	-
7.38E-21	94.20	0	-
1.17E-17	92.19	-	-
1.18E-23	100.00	-	-
3.96E-17	92.06	0	0
6.06E-22	94.20	-	-
5.51E-08	97.14	0	0
4.35E-23	98.44	-	-
0.002	86.84	-	-
2.26E-08	80.60	-	-
1.1E-18	91.30	1	-
1.1E-13	100.00	0	1
1.74E-22	95.59	1	-
1.43E-12	97.73	1	1
7.57E-08	94.87	1	-
2.11E-21	94.12	1	-
1.33E-17	89.86	0	-
1.63E-16	88.41	1	-
4.09E-05	86.05	1	-
3.82E-18	91.18	-	-
1.33E-17	85.71	0	-
4.42E-14	97.87	0	0
5.67E-16	94.64	-	-
3.35E-08	92.68	-	-
1.33E-10	85.48	-	-
6.06E-22	94.20	-	-

2.26E-27	100.00
0.49	95.65
0.12	100.00
0.002	83.72
9.61E-07	81.36
5.3E-22	96.88
4.42E-14	95.92
0.002	92.86
9.6E-26	98.55
9.6E-26	98.55
4.08E-24	97.06
4.36E-13	97.78
0.006	96.00
1.03E-14	100.00
4.66E-17	89.71
1.4	100.00
1.17E-24	97.10
0.00013	96.43

-	0	-	-
-	1	-	1
-	0	-	-
-	0	-	-
-	0	-	-
-	1	-	-
-	1	-	-
-	0	-	0
-	-	-	-
-	0	-	-
-	-	-	-
-	-	-	-
-	2	-	2
-	0	-	-
-	-	-	-
-	-	-	-
-	1	-	-
-	2	-	-

-	-	-	0	-	-	-	-
-	-	-	-	-	-	-	1
-	0	-	-	-	-	-	0
-	-	-	-	-	-	-	0
-	-	-	-	-	-	-	-
-	-	-	-	-	-	1	-
-	1	-	1	-	1	-	-
-	0	-	-	-	-	-	0
-	-	-	-	-	-	-	-
-	0	-	0	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	1	-	1	1	-	2	1
-	0	-	0	-	-	-	0
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-

Teljes genomi DNS

7M

7U

Ae. comosa
(MM)

Ae. umbellulata
(UU)

-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	0
-	-	0	0
-	-	-	1
-	-	-	1
-	-	-	0
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	1
-	-	-	-
-	-	-	1
-	-	-	0
-	1	-	1
-	-	-	0
-	-	-	0
-	-	-	-
-	-	-	0
-	-	-	-
-	-	-	-
-	0	-	0
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	1	-	1
-	-	0	1
-	-	-	1
-	1	-	1
-	-	-	1
-	-	-	1
-	-	-	1
-	-	-	0
-	-	-	1
-	-	-	1
-	-	-	-
-	-	-	0
-	-	-	0
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

-	0	-	0
-	-	-	1
-	-	-	0
-	-	-	0
-	-	-	0
-	-	-	1
-	-	-	1
-	-	-	0
-	-	-	-
-	-	-	0
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	2
-	-	-	0
-	-	-	-
-	-	-	-
-	-	-	1
-	-	-	0

<i>Ae. biuncialis</i>					Legjobb BL	
Marker	Marker szekvencia	Kapcsoltsági csoport (LG)	Kr.	cM	<i>T. aestivum</i> Kr.	
1	mab2612	TGCAGCAATC	LG7	2M	0	2A
2	mab3876	TGCAGGACTG	LG7	2M	2.94	2A
3	mab4015	TGCAGAGCAC	LG7	2M	5.19	2A
4	fM2-mab2	TGCAGGACG	LG7	2M	7.68	2A
5	mab2547	TGCAGCGTAG	LG7	2M	10.16	2A
6	fU1-mab7	TGCAGCAGTA	LG7	2M	14.73	5A
7	mab4800	TGCAGGAAGG	LG7	2M	21.95	2A
8	M12-mab5	TGCAGACAGG	LG7	2M	23.75	2A
9	fU1-mab7	TGCAGCGGG	LG7	2M	24.64	2A
10	mab3911	TGCAGATGCA	LG7	2M	28.28	2A
11	mab1219	TGCAGCCCG	LG7	2M	28.95	2A
12	mab1433	TGCAGCATGC	LG7	2M	29.17	2A
13	fM2-mab2	TGCAGCTACC	LG7	2M	29.84	1A
14	mab1614	TGCAGTGTTC	LG7	2M	30.96	2A
15	fU1-mab8	TGCAGCGTCC	LG7	2M	31.63	2A
16	U123-mab	TGCAGGTAGT	LG7	2M	34.11	4A
17	fU1-mab7	TGCAGCGTCC	LG7	2M	35	2A
18	mab1719	TGCAGCGTGG	LG7	2M	37.52	2A
19	mab4025	TGCAGCAGGA	LG7	2M	37.97	2A
20	mab3891	TGCAGCACGA	LG7	2M	38.19	2A
21	mab4597	TGCAGCGGCC	LG7	2M	40.68	2A
22	mab1578	TGCAGGAGA	LG7	2M	40.9	2A
23	M12-mab5	TGCAGGGCTG	LG7	2M	42.93	2A
24	U123-mab	TGCAGTTGCC	LG7	2M	44.5	2A
25	M12-mab5	TGCAGGTCGT	LG7	2M	45.18	2A
26	mab1487	TGCAGGCCAT	LG7	2M	45.86	2A
27	mab3524	TGCAGTTCATA	LG7	2M	46.08	2A
28	U123-mab	TGCAGGCCG	LG7	2M	46.97	2A
29	fU1-mab7	TGCAGTGGCC	LG7	2M	51.08	5A
30	M12-mab5	TGCAGGAGC	LG7	2M	52.2	2A
31	fU1-mab8	TGCAGGTAGT	LG7	2M	52.64	2A
32	M12-mab4	TGCAGGGAG	LG7	2M	55.35	2A
33	mab1875	TGCAGGACAC	LG7	2M	55.57	2A
34	mab51	TGCAGCAGTT	LG7	2M	56.01	2A
35	mab929	TGCAGGAAGT	LG7	2M	57.58	2A
36	mab1101	TGCAGCGGG	LG7	2M	58.25	1A
37	mab4591	TGCAGGCCCC	LG7	2M	58.92	2A
38	C-mab179	TGCAGCGAC	LG7	2M	59.36	2A
39	C-mab79	TGCAGTAGGG	LG7	2M	60.48	2A
40	T1-mab79	TGCAGTAGGG	LG7	2M	60.92	2A
41	fM2-mab2	TGCAGAAGG	LG7	2M	61.59	2A
42	mab1345	TGCAGCGAGG	LG7	2M	62.03	2A
43	C-mab402	TGCAGCGAGG	LG7	2M	62.25	2A
44	mab1310	TGCAGGACAA	LG7	2M	63.38	2A

45 mab939	TGCAGTGGATILG7	2M	66.58	2A
46 mab3444	TGCAGAAGTC(LG7	2M	69.53	2A
47 mab583	TGCAGTGCCGLG7	2M	71.11	4A
48 fU1-mab69	TGCAGCGGCA(LG7	2M	72.47	2A
49 fM2-mab2†	TGCAGGGACGLG7	2M	74.49	2A
50 mab2166	TGCAGGCGCTILG7	2M	74.93	2A
51 mab3363	TGCAGCCGCT(LG7	2M	76.05	5A
52 mab4239	TGCAGTTGGT(LG7	2M	76.72	2A
53 mab3865	TGCAGTCTCC(LG7	2M	77.84	3A
54 mab1407	TGCAGCTGCT(LG7	2M	78.28	2A
55 mab414	TGCAGGGTGCLG7	2M	82.16	2A
56 mab53	TGCAGCAGCGLG7	2M	82.83	2A
57 fU1-mab6†	TGCAGCAGGGLG7	2M	83.05	2A
58 M12-mab5	TGCAGCTGGGLG7	2M	89.07	2A
59 mab396	TGCAGAGGTC(LG7	2M	90.64	
60 mab110	TGCAGCGGGALG7	2M	91.53	2A
61 mab3754	TGCAGCGAGGLG7	2M	92.42	2A
62 fM2-mab2†	TGCAGCTGCGLG7	2M	96.05	2A
63 U123-mab!	TGCAGGAGCALG7	2M	96.49	2A
64 mab61	TGCAGCACGT(LG7	2M	101.77	2A
65 fM2-mab2†	TGCAGCGCCT(LG7	2M	102.21	2A
66 mab881	TGCAGGCGGCLG7	2M	105.16	2A
67 mab92	TGCAGCAGCT(LG7	2M	105.6	2A
68 mab2030	TGCAGCCCAC(LG7	2M	109.93	2A
69 mab94	TGCAGCCGCT(LG7	2M	114.5	2A
70 mab3193	TGCAGGTTGT(LG7	2M	119.78	2A
71 mab3640	TGCAGCCGCALG7	2M	121.8	2A
72 T-mab374	TGCAGAAGTT(LG7	2M	126.13	2A
73 fM2-mab2†	TGCAGGCACGLG7	2M	137.86	2A
74 C-mab252†	TGCAGACATC(LG7	2M	140.34	2A
75 fM2-mab2†	TGCAGGGTGGLG7	2M	141.47	7A
76 mab4166	TGCAGGGCGALG7	2M	151.86	2A
77 mab1063	TGCAGTAGCATLG7	2M	153.88	2A
78 fM2-C-mab	TGCAGGACAC(LG7	2M	156.41	2A
79 mab126	TGCAGTAGGA(LG7	2M	157.32	2A
80 M12-mab4	TGCAGCATCGILG7	2M	158	2A
81 U123-mab!	TGCAGGAGGALG7	2M	160.48	2A
82 M12-mab5	TGCAGCTGGT(LG7	2M	161.39	2A
83 mab4391	TGCAGGCACCLG7	2M	163.45	2A
84 mab1892	TGCAGTGCCTILG7	2M	167.15	1A
85 M12-mab5	TGCAGGCACALG7	2M	168.98	2A
86 mab60	TGCAGCGTGGLG7	2M	172.44	7A

.ASTn találat

1 A genom

start	end	e-érték	Azonossági %
87861061	87861093	4.98E-05	93.94
88122869	88122937	7.38E-22	94.20
7.73E+08	7.73E+08	0.48	90.00
92472934	92473002	1.17E-25	98.55
1.01E+08	1.01E+08	8.42E-15	84.93
3.56E+08	3.56E+08	3.58E-12	86.89
1.13E+08	1.13E+08	8.14E-20	98.28
1.18E+08	1.18E+08	7.38E-22	94.20
1.18E+08	1.18E+08	2.4E-07	94.44
1.5E+08	1.5E+08	1.99E-10	97.50
1.66E+08	1.66E+08	5.67E-17	88.00
1.83E+08	1.83E+08	1.09E-19	92.75
96463499	96463567	1.03E-13	85.51
5.48E+08	5.48E+08	8.42E-15	86.96
5.55E+08	5.55E+08	1.13E-11	89.47
1.97E+08	1.97E+08	3.14E-20	92.75
5.99E+08	5.99E+08	1.97E-08	100.00
6.09E+08	6.09E+08	6.06E-23	95.65
6.18E+08	6.18E+08	3.82E-18	100.00
6.22E+08	6.22E+08	6.06E-23	95.65
6.33E+08	6.33E+08	0.005	100.00
6.36E+08	6.36E+08	7.3E-20	100.00
6.62E+08	6.62E+08	7.38E-22	94.20
6.7E+08	6.7E+08	1.85E-10	84.38
6.7E+08	6.7E+08	0.09	78.72
6.73E+08	6.73E+08	6.88E-08	97.14
6.74E+08	6.74E+08	7.89E-14	87.50
6.77E+08	6.77E+08	2.75E-27	100.00
7.02E+08	7.02E+08	3.6	95.00
6.8E+08	6.8E+08	1.42E-24	97.10
6.8E+08	6.8E+08	6.62E-22	96.88
6.88E+08	6.88E+08	8.99E-21	94.20
6.9E+08	6.9E+08	1.42E-24	97.10
6.93E+08	6.93E+08	5.83E-15	92.86
6.95E+08	6.95E+08	1.17E-25	98.55
5.47E+08	5.47E+08	2.42E-05	83.33
7E+08	7E+08	3.14E-20	92.75
7.03E+08	7.03E+08	7.38E-22	94.20
7.03E+08	7.03E+08	1.42E-24	97.10
7.03E+08	7.03E+08	1.42E-24	97.10
7.03E+08	7.03E+08	2.75E-27	100.00
7.03E+08	7.03E+08	1.74E-23	98.46
7.03E+08	7.03E+08	2.11E-22	96.92
7.04E+08	7.04E+08	0.000217	100.00

T. aestivum B genom

Kr.	start
2B	1.41E+08
2B	1.41E+08
5B	4.56E+08
2B	2.01E+08
2B	1.53E+08
7B	1.16E+08
2B	1.62E+08
2B	1.67E+08
2B	1.67E+08
2B	2.09E+08
2B	2.14E+08
2B	2.3E+08
2B	2.36E+08
2B	4.94E+08
2B	5.11E+08
3B	2.76E+08
2B	5.31E+08
2B	5.47E+08
2B	5.57E+08
2B	5.61E+08
2B	5.74E+08
2B	5.76E+08
2B	6.1E+08
2B	6.2E+08
2B	6.21E+08
2B	6.26E+08
2B	6.3E+08
2B	6.33E+08
2B	6.36E+08
2B	6.39E+08
2B	6.39E+08
2B	6.52E+08
2B	6.54E+08
2B	6.57E+08
2B	6.61E+08
1B	6.22E+08
2B	6.69E+08
2B	6.72E+08
2B	6.72E+08
2B	6.72E+08
2B	6.73E+08
2B	6.73E+08
2B	6.74E+08
6B	4.99E+08

7.06E+08	7.06E+08	0.011	84.21	2B	6.76E+08
7.13E+08	7.13E+08	6.28E-07	96.97	2B	6.9E+08
4.99E+08	4.99E+08	0.51	80.49	7B	3.54E+08
7.15E+08	7.15E+08	0.007	96.00	7B	3.98E+08
7.17E+08	7.17E+08	6.06E-23	95.65	2B	6.98E+08
7.19E+08	7.19E+08	1.42E-24	97.10	2B	26906178
7.05E+08	7.05E+08	6E-07	85.71	2B	7.05E+08
7.19E+08	7.19E+08	1.17E-25	98.55	2B	7.05E+08
6.76E+08	6.76E+08	0.31	83.78		
7.22E+08	7.22E+08	3.34E-18	96.49	2B	7.09E+08
7.25E+08	7.25E+08	9.85E-10	91.49	2B	7.15E+08
7.26E+08	7.26E+08	6.06E-23	96.97	2B	7.17E+08
7.26E+08	7.26E+08	0.59	84.85	2B	7.17E+08
7.35E+08	7.35E+08	3.14E-20	92.75	2B	7.33E+08
				2B	7.33E+08
7.36E+08	7.36E+08	7.38E-22	94.20	2B	7.34E+08
7.36E+08	7.36E+08	2.57E-21	94.12	2B	7.34E+08
7.4E+08	7.4E+08	9.92E-19	96.55	2B	7.42E+08
7.44E+08	7.44E+08	4.66E-18	96.49	2B	7.46E+08
7.46E+08	7.46E+08	1.74E-23	97.02	2B	7.5E+08
7.47E+08	7.47E+08	1.36E-14	100.00	2B	7.52E+08
7.51E+08	7.51E+08	7.38E-22	94.20	2B	7.59E+08
7.52E+08	7.52E+08	3.82E-19	95.16	2B	7.62E+08
7.55E+08	7.55E+08	6.06E-23	95.65	2B	7.65E+08
7.56E+08	7.56E+08	1.42E-24	97.10	2B	7.68E+08
7.59E+08	7.59E+08	0.001	90.63	2B	7.71E+08
7.61E+08	7.61E+08	5.34E-05	96.67	2B	7.73E+08
7.81E+08	7.81E+08	2.82E-10	93.33	2B	7.77E+08
7.77E+08	7.77E+08	1.21E-17	96.43	2B	45349418
7.77E+08	7.77E+08	2.41E-15	88.06	2B	7.81E+08
6.65E+08	6.65E+08	0.026	86.84	2B	7.84E+08
7.75E+08	7.75E+08	6.91E-16	87.50	2B	7.85E+08
7.72E+08	7.72E+08	3.84E-09	89.58	2B	7.88E+08
7.72E+08	7.72E+08	8.99E-21	95.39	2B	7.9E+08
7.7E+08	7.7E+08	6.06E-23	95.65	2B	7.91E+08
7.7E+08	7.7E+08	1.62E-17	90.00	2B	7.91E+08
7.69E+08	7.69E+08	5.67E-17	89.71	2B	7.93E+08
7.68E+08	7.68E+08	6.06E-23	95.65	2B	7.93E+08
7.66E+08	7.66E+08	5.26E-14	95.92	2B	7.34E+08
2.54E+08	2.54E+08	1.1	95.65	2B	1.01E+08
7.66E+08	7.66E+08	8.42E-15	88.41	2B	8.01E+08
7.14E+08	7.14E+08	0.026	89.19	2B	7.86E+08

end	e-érték	Azonossági %	<i>T. aestivum</i> D genom Kr.	start	end
1.41E+08	4.29E-06	77.27	2D	87670513	87670569
1.41E+08	6.36E-23	95.65	2D	87791475	87791543
4.56E+08	0.47	81.82	2D	89421090	89421138
2.01E+08	4.01E-19	92.54	2D	94385355	94385423
1.53E+08	2.08E-16	88.41	2D	1.01E+08	1.01E+08
1.16E+08	3.76E-12	86.89	1D	3.7E+08	3.7E+08
1.62E+08	4.43E-17	94.83	2D	1.12E+08	1.12E+08
1.67E+08	4.89E-18	95.16	2D	1.16E+08	1.16E+08
1.67E+08	2.52E-07	94.44	2D	1.17E+08	1.17E+08
2.09E+08	7.3E-10	97.44	2D	1.51E+08	1.51E+08
2.14E+08	3.08E-14	85.33	2D	1.56E+08	1.56E+08
2.3E+08	2.37E-09	93.18	2D	1.68E+08	1.68E+08
2.36E+08	1.5E-24	97.10	2D	1.8E+08	1.8E+08
4.94E+08	4.01E-19	91.30	2D	4.21E+08	4.21E+08
5.11E+08	1.76E-09	86.21	2D	4.32E+08	4.32E+08
2.76E+08	3.29E-20	92.75	2D	4.48E+08	4.48E+08
5.31E+08	2.07E-08	100.00	2D	4.5E+08	4.5E+08
5.47E+08	4.01E-19	91.30	2D	4.69E+08	4.69E+08
5.57E+08	4.89E-17	92.19	2D	4.76E+08	4.76E+08
5.61E+08	1.23E-25	98.55	2D	4.79E+08	4.79E+08
5.74E+08	0.005	100.00	2D	4.9E+08	4.9E+08
5.76E+08	3.26E-18	98.18	2D	4.91E+08	4.91E+08
6.1E+08	9.43E-21	96.77	2D	5.18E+08	5.18E+08
6.2E+08	5.95E-17	93.33	2D	5.24E+08	5.24E+08
6.21E+08	2.37E-09	82.61	7D	5.13E+08	5.13E+08
6.26E+08	7.22E-08	97.14	2D	5.28E+08	5.28E+08
6.3E+08	8.28E-14	87.50	2D	5.3E+08	5.3E+08
6.33E+08	1.5E-24	98.51	2D	5.33E+08	5.33E+08
6.36E+08	0.007	96.00			
6.39E+08	1.23E-25	98.55	2D	5.37E+08	5.37E+08
6.39E+08	3.5E-19	95.16	2D	5.37E+08	5.37E+08
6.52E+08	1.71E-17	93.44	2D	5.45E+08	5.45E+08
6.54E+08	1.15E-19	95.24	2D	5.47E+08	5.47E+08
6.57E+08	6.12E-15	92.86	2D	5.52E+08	5.52E+08
6.61E+08	6.36E-23	95.65	5D	30955669	30955700
6.22E+08	4.91E-08	87.50	1D	4.52E+08	4.52E+08
6.69E+08	1.23E-25	98.55	2D	5.61E+08	5.61E+08
6.72E+08	6.36E-23	95.65	2D	5.62E+08	5.62E+08
6.72E+08	6.36E-23	95.65	2D	5.63E+08	5.63E+08
6.72E+08	6.36E-23	95.65	2D	5.63E+08	5.63E+08
6.73E+08	1.5E-24	97.10	2D	5.63E+08	5.63E+08
6.73E+08	2.22E-22	96.92	2D	5.63E+08	5.63E+08
6.74E+08	1.82E-23	98.46	2D	5.63E+08	5.63E+08
4.99E+08	0.41	95.46	2D	5.63E+08	5.63E+08

6.76E+08	1.44E-07	92.50	2D	5.65E+08	5.65E+08
6.9E+08	6.6E-07	96.97	2D	5.74E+08	5.74E+08
3.54E+08	3.14E-10	91.49	7D	2.98E+08	2.98E+08
3.98E+08	0.31	95.46	7D	3.6E+08	3.6E+08
6.98E+08	4.01E-19	91.30	2D	5.8E+08	5.8E+08
26906246	4.01E-19	91.30	2D	5.85E+08	5.85E+08
7.05E+08	2.35E-12	93.88	2D	5.85E+08	5.85E+08
7.05E+08	1.5E-24	100.00	2D	5.85E+08	5.85E+08
			4D	2.52E+08	2.52E+08
7.09E+08	6.34E-15	92.86	2D	5.87E+08	5.87E+08
7.15E+08	1.03E-09	93.18	2D	5.9E+08	5.9E+08
7.17E+08	9.43E-21	95.39	2D	5.91E+08	5.91E+08
7.17E+08	0.000342	90.91			
7.33E+08	1.23E-25	98.55	2D	6.02E+08	6.02E+08
7.33E+08	0.025	92.31	2D	6.03E+08	6.03E+08
7.34E+08	6.36E-23	95.65	2D	6.03E+08	6.03E+08
7.34E+08	5.22E-24	97.06	2D	6.04E+08	6.04E+08
7.42E+08	8.55E-20	98.28	1D	4.44E+08	4.44E+08
7.46E+08	1.31E-12	89.47	2D	6.11E+08	6.11E+08
7.5E+08	3.52E-26	100.00	2D	6.16E+08	6.16E+08
7.52E+08	1.17E-15	100.00	2D	6.17E+08	6.17E+08
7.59E+08	7.74E-22	94.20	2D	6.2E+08	6.2E+08
7.62E+08	3.29E-20	92.75	2D	6.21E+08	6.21E+08
7.65E+08	1.15E-19	92.86	2D	6.23E+08	6.23E+08
7.68E+08	6.36E-23	95.65	2D	6.26E+08	6.26E+08
7.71E+08	1.92E-06	96.88	2D	6.29E+08	6.29E+08
7.73E+08	1.08E-07	94.87	2D	6.3E+08	6.3E+08
7.77E+08	1.44E-07	88.89	2D	6.34E+08	6.34E+08
45349474	5.05E-10	85.97	2D	6.51E+08	6.51E+08
7.81E+08	4.89E-18	91.05	1D	4.94E+08	4.94E+08
7.84E+08	1.23E-25	98.55	2D	6.48E+08	6.48E+08
7.85E+08	1.71E-17	88.89	2D	6.5E+08	6.5E+08
7.88E+08	7.78E-12	93.75	2D	6.51E+08	6.51E+08
7.9E+08	7.74E-22	95.52	2D	6.46E+08	6.46E+08
7.91E+08	4.01E-19	91.30	2D	6.45E+08	6.45E+08
7.91E+08	3.08E-14	88.06	2D	6.45E+08	6.45E+08
7.93E+08	4.29E-06	78.46	2D	6.44E+08	6.44E+08
7.93E+08	1.5E-24	97.10	2D	6.43E+08	6.43E+08
7.34E+08	2.68E-05	89.47	2D	6.41E+08	6.41E+08
1.01E+08	0.008	77.78	2D	6.4E+08	6.4E+08
8.01E+08	2.08E-16	89.86	2D	6.4E+08	6.4E+08
7.86E+08	7.25E-16	88.24	7D	3.58E+08	3.58E+08

DArTseq markerekkel detektált SNP-k alélva

e-érték	Azonosság %	1M	1U	2M	2U
4.09E-05	75.76	-	-	-	-
9.6E-26	98.55	1	-	1	-
7.88E-10	89.80	-	-	-	-
4.97E-23	95.65	0	-	0	-
2.11E-21	93.06	-	-	1	-
5.18E-09	87.27	-	-	-	-
7.94E-19	96.55	-	-	0	-
2.26E-27	100.00	-	-	-	-
2.16E-07	94.44	-	-	-	-
1.94E-09	95.00	-	-	-	-
1.33E-17	87.84	1	-	1	-
1.63E-16	88.41	-	-	-	-
1.17E-24	97.10	1	-	1	-
6.91E-15	86.96	1	-	1	-
3.85E-10	87.72	-	-	0	-
4.97E-23	95.65	-	-	-	-
1.58E-08	100.00	-	-	0	-
4.97E-23	95.65	-	-	0	-
3.98E-23	100.00	-	-	-	-
1.17E-24	97.10	-	-	1	-
0.004	100.00	0	-	0	-
5.84E-20	100.00	-	-	0	-
1.17E-24	97.10	-	-	0	-
2.26E-27	100.00	-	-	-	-
0.9	95.65	-	-	1	-
6.71E-07	94.29	-	-	1	-
5.92E-08	79.69	-	-	-	1
2.26E-27	100.00	0	-	0	-
		-	-	1	-
4.97E-23	95.65	-	-	0	-
4.35E-23	98.44	-	-	0	-
5.31E-10	93.33	-	-	-	-
2.11E-21	96.83	-	-	-	-
4.67E-15	92.86	-	-	0	-
0.074	87.50	-	-	-	1
3.94E-08	87.50	0	-	0	-
1.17E-24	97.10	0	-	0	-
6.06E-22	94.20	1	-	1	-
1.17E-24	97.10	-	-	1	-
1.17E-24	97.10	-	-	1	-
1.17E-24	97.10	-	-	0	-
1.42E-23	98.46	-	-	1	-
1.74E-22	96.92	-	-	-	-
0.002	93.33	-	-	1	-

4.97E-06	90.24
5.03E-07	96.97
4.87E-13	95.75
0.067	95.65
2.26E-27	100.00
1.33E-17	89.86
2.29E-11	91.84
9.6E-26	98.55
0.021	86.49
2.2E-19	98.25
8.35E-10	91.30
2.11E-21	95.46
4.97E-23	95.65
3.73E-05	100.00
6.06E-22	94.20
2.58E-20	92.75
6.97E-07	90.24
4.36E-11	87.72
1.17E-24	98.51
9.41E-16	100.00
2.58E-20	92.75
6.06E-22	94.20
1.17E-24	97.10
4.97E-23	95.65
1.46E-06	96.88
8.26E-08	92.50
9.6E-09	90.91
1.75E-14	96.00
8.99E-20	94.03
1.17E-24	97.10
1.33E-17	88.89
6.25E-12	93.75
6.06E-22	95.52
4.97E-23	95.65
0.000498	82.35
3.82E-18	91.05
4.97E-23	95.65
2.29E-11	95.46
3.14E-19	91.30
3.58E-12	85.51
0.26	87.10

1	-	1	-
-	-	-	-
0	-	0	-
0	-	0	-
-	-	1	-
1	-	1	-
1	-	1	-
-	-	0	-
-	-	-	-
-	-	-	-
1	-	1	-
-	-	1	-
-	-	-	-
-	-	-	-
-	-	0	-
-	-	-	-
-	-	-	-
-	-	-	-
0	-	0	-
-	-	-	-
-	-	-	-
-	-	-	-
-	1	-	1
-	-	-	0
-	-	0	-
-	-	1	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	1	-
-	-	0	-
-	-	0	-
-	-	-	-
-	-	0	-
-	-	-	-
-	-	-	-

áltozatai

Izolált kromoszómák DNS mintái

3M 3U 4M 4U 5M 5U 6M 6U

-	-	-	-	-	-	-	-
1	-	1	-	1	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	0	-	-	-
-	-	-	-	1	-	-	-
-	-	-	-	-	-	-	-
0	-	-	-	0	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	1	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	1	-	-	-
-	-	-	-	-	-	-	-
1	-	-	-	1	-	-	-
1	-	-	-	1	-	-	-
0	-	-	-	0	-	-	-
-	-	-	-	-	-	-	-
0	-	-	-	0	-	-	-
0	-	-	-	0	-	-	-
-	-	-	-	-	-	-	-
1	-	1	-	1	-	-	-
0	-	-	-	0	-	-	-
0	-	-	-	0	-	-	-
-	-	-	-	0	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	1	-	-	-
-	-	-	-	1	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	0	-	-	-
1	-	-	-	1	-	-	-
-	-	-	-	0	-	-	-
0	-	-	-	0	-	-	-
0	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
0	-	-	-	0	-	-	-
-	1	-	1	-	-	-	-
0	-	-	-	0	-	-	-
-	-	-	-	0	-	-	-
-	-	-	-	1	-	-	-
-	-	-	-	1	-	-	-
-	-	-	-	1	-	-	-
0	-	-	-	0	-	-	-
-	-	-	-	1	-	-	-
-	-	-	-	-	-	-	-
1	-	-	-	1	-	1	-

1	-	-	-	1	-	-	-
-	-	-	-	-	-	-	-
0	-	0	-	0	-	-	-
-	-	-	-	0	-	-	-
1	-	-	-	1	-	-	-
-	-	-	-	1	-	-	-
1	-	-	-	1	-	-	-
-	-	0	-	0	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
1	-	1	-	1	-	1	-
-	-	-	-	1	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
0	-	0	-	0	-	-	-
-	-	-	-	-	-	-	-
0	-	-	-	-	-	-	-
1	-	-	-	-	-	-	-
-	-	-	-	-	0	-	-
0	-	-	-	0	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
0	-	-	-	0	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	1	-	-	-	-	-	1
-	-	-	-	-	-	-	-
-	-	-	-	0	-	-	-
-	-	-	-	2	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	0	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
2	-	-	-	1	-	1	-
-	-	-	-	0	-	-	-
-	-	-	-	0	-	-	-
-	-	-	-	-	-	-	-
0	-	-	-	0	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-

Teljes genomi DNS

7M 7U Ae. comosa (MM) Ae. umbellulata (UU)

-	-	-	-
1	-	1	-
-	-	-	-
-	-	0	-
1	-	1	-
-	-	-	-
0	-	0	-
-	-	-	-
1	-	1	-
1	-	-	-
-	-	1	-
-	-	-	-
1	-	1	-
1	-	1	-
-	-	0	-
-	-	-	-
-	-	0	-
-	-	0	-
-	-	-	-
-	-	1	-
0	-	0	-
0	-	0	-
-	-	0	-
-	-	-	-
-	-	1	-
1	-	1	-
-	-	1	-
0	-	0	-
1	-	2	-
-	-	0	-
-	-	0	-
-	-	-	-
-	-	-	-
0	-	0	-
-	-	-	1
0	-	-	-
-	-	0	-
-	-	1	-
-	-	1	-
-	-	1	-
-	-	0	-
1	-	1	0
-	-	-	-
1	-	1	-

-	-	1	-
-	-	-	-
0	-	0	-
0	-	0	-
-	-	1	-
-	-	1	-
-	-	2	-
-	-	0	-
-	-	-	-
-	-	1	-
0	-	1	-
-	-	1	-
-	-	1	-
-	-	-	-
-	-	0	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	0	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	0	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	1
-	-	-	-
-	-	0	-
-	-	1	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	1	-
-	-	0	-
-	-	0	-
-	-	-	-
-	-	0	-
-	-	-	-
-	-	-	-

<i>Ae. biuncialis</i>					
Marker	Marker szekvencia	Kapcsoltsági csoport (LG)	Kr.	cM	
1	M12-mab5088	TGCAGAGGCC	LG6	2U	0
2	M12-mab5119	TGCAGGATTC	LG6	2U	0.89
3	mab1828	TGCAGCCAGG	LG6	2U	4.53
4	M12-mab4999	TGCAGCCAGG	LG6	2U	5.65
5	mab1953	TGCAGTGCGC	LG6	2U	10.48
6	mab2626	TGCAGGCCCG	LG6	2U	12.51
7	M12-mab5095	TGCAGGAGCC	LG6	2U	13.4
8	mab2560	TGCAGTCGATA	LG6	2U	17.99
9	mab1298	TGCAGCACCT	LG6	2U	21.86
10	mab4170	TGCAGGACGT	LG6	2U	22.75
11	fU1-mab728	TGCAGTCAGG	LG6	2U	26.9
12	mab1308	TGCAGACCTC	LG6	2U	30.59
13	mab4016	TGCAGACCCG	LG6	2U	31.49
14	mab4472	TGCAGTGTTG	LG6	2U	33.09
15	mab4782	TGCAGCGGC	LG6	2U	38.71
16	mab4431	TGCAGGTCGG	LG6	2U	49.7
17	mab3267	TGCAGATACG	LG6	2U	54.36
18	mab3271	TGCAGCGGCT	LG6	2U	55.93
19	mab3684	TGCAGTGATT	LG6	2U	60.04
20	mab4816	TGCAGCGACG	LG6	2U	61.38
21	mab1018	TGCAGCGAGG	LG6	2U	62.05
22	fM2-T-mab2837	TGCAGCGAGG	LG6	2U	63.85
23	fM2-C-mab2837	TGCAGCGAGG	LG6	2U	64.97
24	mab1444	TGCAGCCGCG	LG6	2U	82.87
25	fM2-mab2903	TGCAGCATCA	LG6	2U	89.09
26	mab926	TGCAGCTGCG	LG6	2U	92.03
27	fM2-mab2927	TGCAGCGAGT	LG6	2U	103.8
28	mab3560	TGCAGGGTTT	ALG6	2U	111.98
29	mab2073	TGCAGCGAAG	LG6	2U	113.32
30	mab517	TGCAGCGGG	ALG6	2U	115.12
31	mab1421	TGCAGAAACC	LG6	2U	116.01
32	fU1-mab811	TGCAGGCACT	LG6	2U	118.72
33	fM2-mab2891	TGCAGGCGCT	LG6	2U	121.67
34	mab1376	TGCAGTCAAG	LG6	2U	126.23
35	mab4205	TGCAGTGCCC	LG6	2U	129.17
36	mab4110	TGCAGGTACG	LG6	2U	129.84
37	M12-mab5085	TGCAGCGGTT	LG6	2U	131.41
38	mab471	TGCAGCCTGC	LG6	2U	134.82
39	U123-mab5689	TGCAGGTTAG	LG6	2U	135.04
40	mab111	TGCAGCTGGA	LG6	2U	138.67
41	M12-mab5127	TGCAGAGATA	CLG6	2U	141.39
42	mab109	TGCAGAGGCA	LG6	2U	144.79
43	M12-mab4980	TGCAGATCTC	CLG6	2U	150.08
44	mab3429	TGCAGTATTTC	LG6	2U	154.65

45 mab1660	TGCAGCTTCCTLG6	2U	155.54
46 M12-mab5006	TGCAGTCATGTLG6	2U	160.59
47 mab2546	TGCAGCCGCT/LG6	2U	166.12
48 mab1229	TGCAGCCGCA/LG6	2U	170.48
49 mab4546	TGCAGCTGGG/LG6	2U	172.05
50 M12-mab5294	TGCAGCACGG/LG6	2U	174.76
51 mab1774	TGCAGCACGC/LG6	2U	177.24
52 mab2314	TGCAGATCTTALG6	2U	191.27
53 U123-mab5643	TGCAGAGCAT/LG6	2U	192.39
54 mab2413	TGCAGTTGAA/LG6	2U	193.97
55 fU1-mab713	TGCAGGCGCT/LG6	2U	197.62
56 mab1584	TGCAGATCAA/LG6	2U	198.51
57 fM2-mab2851	TGCAGGCGAT/LG6	2U	200.78
58 mab3378	TGCAGTGCGG/LG6	2U	202.59
59 fU1-mab747	TGCAGGCAGC/LG6	2U	206.24
60 mab1185	TGCAGACGAG/LG6	2U	207.59
61 mab1934	TGCAGCTTCTALG6	2U	210.54
62 M12-mab4953	TGCAGACTCG/LG6	2U	210.98
63 mab1750	TGCAGCCGCT/LG6	2U	211.42
64 mab4191	TGCAGGAGGT/LG6	2U	215.76
65 mab3756	TGCAGCAAAC/LG6	2U	216.88
66 mab4250	TGCAGGAGGT/LG6	2U	218.94
67 mab2540	TGCAGATGCC/LG6	2U	226.82

Legjobb BLASTn találat

T. aestivum A genom*T. aestivum*

Kr.	start	end	e-érték	Azonossági %	Kr.
2A	1.75E+08	1.75E+08	2.57E-21	94.12	2B
1A	5.84E+08	5.84E+08	4.36E-12	92.16	5B
2A	5.43E+08	5.43E+08	2.26E-09	83.87	2B
2A	5.16E+08	5.16E+08	1.98E-16	87.84	2B
2A	5.86E+08	5.86E+08	0.004	88.89	6B
2A	5.88E+08	5.88E+08	1.42E-24	97.10	2B
2A	6.03E+08	6.03E+08	7.38E-22	94.20	2B
2A	6.11E+08	6.11E+08	9.6E-08	83.93	2B
2A	6.18E+08	6.18E+08	1.42E-24	97.10	2B
2A	6.21E+08	6.21E+08	2.45E-19	100.00	2B
3A	6.91E+08	6.91E+08	2.1E-07	97.06	5B
2A	6.68E+08	6.68E+08	5.67E-17	89.71	2B
2A	6.7E+08	6.7E+08	3.82E-19	91.30	2B
5A	2.77E+08	2.77E+08	2.5	88.89	2B
2A	6.74E+08	6.74E+08	2.74E-19	98.25	2B
2A	6.87E+08	6.87E+08	6.06E-23	95.65	2B
2A	6.88E+08	6.88E+08	9.51E-11	100.00	2B
4A	5.97E+08	5.97E+08	6.63E-12	95.56	6B
2A	6.98E+08	6.98E+08	5.42E-08	86.00	2B
2A	7.03E+08	7.03E+08	6.06E-23	95.65	2B
2A	7.03E+08	7.03E+08	1.74E-23	98.46	2B
2A	7.03E+08	7.03E+08	2.11E-22	96.92	2B
2A	7.03E+08	7.03E+08	2.11E-22	96.92	2B
2A	7.13E+08	7.13E+08	1.05E-11	88.14	5B
2A	7.16E+08	7.16E+08	1.42E-15	96.15	2B
2A	7.18E+08	7.18E+08	3.14E-20	92.75	1B
3A	53257258	53257326	1.17E-25	98.55	3B
3A	6.91E+08	6.91E+08	9.88E-09	92.86	5B
2A	7.49E+08	7.49E+08	7.38E-22	95.52	2B
2A	7.18E+08	7.18E+08	3.84E-09	89.58	2B
7A	98061892	98061912	3.4	95.24	2B
2A	7.24E+08	7.24E+08	0.022	76.12	2B
2A	7.25E+08	7.25E+08	2.75E-08	79.71	2B
2A	7.27E+08	7.27E+08	0.051	93.10	1B
5A	63932419	63932446	0.018	93.10	6B
2A	7.34E+08	7.34E+08	7.38E-22	94.20	2B
2A	7.35E+08	7.35E+08	3.56E-05	91.43	2B
2A	5.64E+08	5.64E+08	1.1	73.33	2B
2A	7.35E+08	7.35E+08	0.007	77.97	2B
6A	6.04E+08	6.04E+08	5.48E-10	85.00	6B
2A	7.66E+08	7.66E+08	1.17E-25	98.55	2B
2A	7.38E+08	7.38E+08	6.91E-15	91.53	2B
3A	7.45E+08	7.45E+08	0.032	89.66	6B

7A	5.3E+08	5.3E+08	0.62	92.59	5B
2A	7.43E+08	7.43E+08	1.42E-24	97.10	2B
7A	6.05E+08	6.05E+08	0.000606	91.18	5B
2A	7.45E+08	7.45E+08	0.04	92.31	2B
2A	7.47E+08	7.47E+08	8.42E-15	91.67	2B
4A	2.16E+08	2.16E+08	8.99E-21	94.20	5B
3A	12376558	12376584	3.8	88.89	2B
3A	1.43E+08	1.43E+08	1.85E-10	83.33	3B
2A	80263719	80263790	1.62E-17	88.89	2B
2A	79343137	79343205	3.14E-20	92.75	2B
2A	69314494	69314552	2.41E-20	98.31	2B
2A	65517313	65517352	8.69E-10	97.56	2B
2A	62371637	62371704	4.08E-25	98.53	2B
2A	61367217	61367256	4.68E-12	100.00	2B
2A	58982906	58982948	5.85E-12	97.67	2B
2A	6.55E+08	6.55E+08	3.4	100.00	5B
2A	54954223	54954289	4.66E-18	91.05	2B
2A	54660529	54660597	4.66E-18	90.28	2B
7A	5.63E+08	5.63E+08	0.09	75.00	5B
2A	23888882	23888936	4.07E-17	96.36	2B
7A	58075649	58075674	6.5	88.46	4B
2A	43291466	43291522	3.34E-18	96.49	2B
2A	40496159	40496227	1.42E-24	97.10	2B

γ B genom				<i>T. aestivum</i> D genom	
start	end	e-érték	Azonossági %	Kr.	start
2.23E+08	2.23E+08	1.4E-18	91.18	2D	1.75E+08
4.4E+08	4.4E+08	1.2	82.86	1D	2.05E+08
4.79E+08	4.79E+08	0.002	81.63	2D	4.04E+08
4.52E+08	4.52E+08	8.28E-09	81.16	2D	3.81E+08
1.5E+08	1.5E+08	0.59	95.65	2D	4.42E+08
5.24E+08	5.24E+08	0.002	80.77	2D	4.46E+08
5.41E+08	5.41E+08	6.36E-23	96.97	2D	4.59E+08
5.48E+08	5.48E+08	5.58E-11	87.72	2D	4.7E+08
5.57E+08	5.57E+08	2.08E-16	88.41	2D	4.76E+08
5.6E+08	5.6E+08	2.57E-19	100.00	2D	4.78E+08
5.86E+08	5.86E+08	0.000114	91.18	3D	44256079
6.15E+08	6.15E+08	8.84E-15	87.88	2D	5.22E+08
6.2E+08	6.2E+08	3.29E-20	92.75	2D	5.24E+08
6.25E+08	6.25E+08	0.21	86.11	6D	2.29E+08
6.29E+08	6.29E+08	2.88E-19	98.25	2D	5.3E+08
6.49E+08	6.49E+08	4.01E-19	91.30	2D	5.44E+08
6.52E+08	6.52E+08	2.35E-12	93.88	2D	5.45E+08
6.14E+08	6.14E+08	2.43E-11	95.46	1D	4.14E+08
6.66E+08	6.66E+08	0.053	79.25	2D	5.58E+08
6.72E+08	6.72E+08	7.74E-22	94.20	2D	5.62E+08
6.73E+08	6.73E+08	1.82E-23	98.46	2D	5.63E+08
6.74E+08	6.74E+08	2.22E-22	96.92	2D	5.63E+08
6.74E+08	6.74E+08	2.22E-22	96.92	2D	5.63E+08
21589792	21589826	0.8	82.86	2D	26956158
6.95E+08	6.95E+08	1.23E-16	98.08	2D	5.78E+08
5.84E+08	5.84E+08	1.01E-07	79.71	2D	5.8E+08
65269373	65269441	1.5E-24	97.10	3D	41746567
5.86E+08	5.86E+08	1.04E-08	92.86	3D	4.22E+08
7.09E+08	7.09E+08	1.23E-25	100.00	2D	5.87E+08
7.1E+08	7.1E+08	1.83E-13	95.83	2D	5.87E+08
7.11E+08	7.11E+08	4.99E-11	100.00	7D	72387445
7.14E+08	7.14E+08	7.21E-09	82.54	2D	5.9E+08
7.16E+08	7.16E+08	1.4E-18	88.00	6D	28269565
3.76E+08	3.76E+08	7.9	88.46	2D	5.92E+08
6.56E+08	6.56E+08	0.82	100.00	2D	5.93E+08
				6D	2.32E+08
7.3E+08	7.3E+08	7.74E-22	94.20	2D	6E+08
7.31E+08	7.31E+08	1.7E-09	100.00	2D	6.01E+08
4.98E+08	4.98E+08	0.027	74.60	2D	4.24E+08
7.33E+08	7.33E+08	6.36E-23	95.65	2D	6.02E+08
4.77E+08	4.77E+08	0.08	96.00	7D	22511977
7.34E+08	7.34E+08	1.5E-24	97.10	2D	6.04E+08
7.37E+08	7.37E+08	5.95E-16	91.80	2D	6.06E+08
4.77E+08	4.77E+08	0.034	89.66	7D	5.88E+08

4.34E+08	4.34E+08	0.19	86.49	2D	6.09E+08
7.44E+08	7.44E+08	1.4E-18	92.42	2D	6.1E+08
5.8E+08	5.8E+08	1.5E-24	98.51	5D	31276485
7.5E+08	7.5E+08	0.012	92.59	2D	6.15E+08
7.51E+08	7.51E+08	3.76E-13	85.29	5D	3.05E+08
2.56E+08	2.56E+08	0.000015	82.69	5D	2.43E+08
23007943	23008004	4.89E-18	93.55	7D	5.73E+08
1.88E+08	1.88E+08	5.58E-11	82.61	2D	79927552
1.31E+08	1.31E+08	1.08E-13	86.96	2D	79685711
1.23E+08	1.23E+08	6.36E-23	95.65	2D	79085714
1.06E+08	1.06E+08	3.76E-18	96.49	2D	69275756
1E+08	1E+08	1.65E-06	96.97	2D	64063407
97397058	97397125	5.22E-24	97.06	2D	62034382
95501197	95501236	2.09E-10	97.50	2D	60785371
91206725	91206767	1.45E-13	100.00	2D	58748814
5.08E+08	5.08E+08	0.29	92.59	5D	28646396
85176617	85176683	4.01E-19	92.54	2D	54486702
84757631	84757694	3.29E-20	94.03	2D	53966906
2.03E+08	2.03E+08	0.000636	93.55	2D	41913382
49984959	49985013	5.94E-09	85.46	2D	30481087
4.63E+08	4.63E+08	0.16	92.31	7D	53827603
66780701	66780757	3.51E-18	96.49	2D	38201228
59102308	59102376	7.74E-22	94.20	2D	36492472

DArTseq markerekkel detektált S

end	e-érték	Azonossági %	1M	1U	2M
1.75E+08	2.26E-27	100.00	-	-	-
2.05E+08	1.98E-15	88.06	-	-	-
4.04E+08	2.26E-08	84.21	-	-	-
3.81E+08	4.36E-11	92.00	-	-	-
4.42E+08	1.88E-12	93.88	-	-	-
4.46E+08	1.98E-15	87.32	-	-	-
4.59E+08	2.58E-20	92.75	-	-	-
4.7E+08	6.06E-22	94.20	-	-	-
4.76E+08	1.63E-16	88.41	-	-	-
4.78E+08	1.96E-19	100.00	-	-	0
44256103	6.7	88.00	-	-	-
5.22E+08	2.41E-14	86.77	-	1	-
5.24E+08	6.47E-09	91.49	-	-	-
2.29E+08	2	88.89	-	-	-
5.3E+08	5.17E-21	100.00	-	-	-
5.44E+08	4.97E-23	95.65	-	-	-
5.45E+08	4.42E-14	95.92	-	-	-
4.14E+08	0.01	80.44	-	-	-
5.58E+08	0.012	80.77	-	-	-
5.62E+08	2.58E-20	92.75	-	-	-
5.63E+08	1.74E-22	96.92	-	-	1
5.63E+08	7.38E-21	95.39	-	-	1
5.63E+08	7.38E-21	95.39	-	-	1
26956184	2.1	88.89	-	-	-
5.78E+08	2.2E-18	100.00	-	0	-
5.8E+08	3.14E-19	91.30	-	-	-
41746635	9.6E-26	98.55	-	-	-
4.22E+08	0.31	96.00	-	1	-
5.87E+08	1.74E-22	95.59	-	-	-
5.87E+08	6.25E-12	93.75	-	-	-
72387468	9.6	88.46	-	-	-
5.9E+08	6.7E-08	83.93	-	-	-
28269589	0.9	92.00	-	-	-
5.92E+08	0.49	89.29	-	-	-
5.93E+08	0.017	96.00	-	-	-
2.32E+08	5.8	95.65	-	0	-
6E+08	4.97E-23	95.65	-	-	-
6.01E+08	2.85E-05	91.43	0	-	0
4.24E+08	0.000498	79.63	-	-	-
6.02E+08	6.06E-22	94.20	-	-	-
22512040	8.46E-13	87.50	-	-	-
6.04E+08	9.6E-26	98.55	-	-	-
6.06E+08	4.54E-16	91.80	-	-	-
5.88E+08	0.032	89.66	-	-	0

NP-k alélváltozatai

Izolált kromoszómák DNS mintái

2U 3M 3U 4M 4U 5M 5U 6M

0	-	0	-	0	-	-	-
0	-	0	-	0	-	-	-
0	-	-	-	-	-	-	-
0	-	0	-	0	-	-	-
0	-	0	-	0	-	-	-
1	-	1	-	1	-	-	-
1	-	1	-	1	-	-	-
1	-	1	-	1	-	-	-
1	-	1	-	1	-	-	-
0	-	0	-	0	0	-	-
0	-	0	-	0	-	-	-
1	-	1	-	1	-	-	-
-	-	-	-	-	-	-	-
1	-	1	-	1	-	-	-
0	0	0	-	0	-	-	-
-	-	-	-	-	-	-	-
0	-	0	-	0	-	-	-
0	-	0	-	0	-	-	-
-	-	-	-	-	-	-	-
0	-	0	-	0	-	-	-
0	1	0	-	0	1	-	-
-	1	-	-	-	1	-	-
-	1	-	-	-	1	-	-
1	-	1	-	1	-	-	-
0	-	0	-	0	-	-	-
0	-	0	-	0	-	-	-
1	-	1	-	1	-	-	-
1	-	1	-	1	-	1	1
0	-	0	-	0	-	-	-
-	-	-	-	-	-	-	-
1	-	1	-	1	-	-	-
0	-	0	-	0	-	-	-
0	-	-	-	-	-	-	-
1	-	1	-	1	-	-	-
1	-	1	-	1	-	1	-
0	-	0	-	0	-	-	-
0	-	0	-	0	-	0	-
1	0	1	-	1	0	-	-
2	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
1	-	1	-	1	-	-	-
-	-	-	-	-	-	-	-
0	-	0	-	0	-	-	-
1	-	1	-	1	-	-	-

2	-	2	-	2	-	-	-
1	-	1	-	1	-	-	-
-	-	-	-	-	-	-	-
1	-	1	-	1	-	-	-
-	1	-	-	-	-	-	-
-	-	0	-	-	-	-	-
1	-	1	-	1	-	-	-
0	-	0	-	0	-	-	-
1	-	-	-	1	-	-	-
0	-	-	-	0	-	-	-
0	-	0	-	0	-	-	-
0	-	0	-	0	-	-	-
-	-	-	-	-	-	-	-
0	-	0	-	0	-	-	0
-	-	-	-	-	-	-	-
0	-	0	-	0	-	-	-
-	-	-	-	-	-	-	-
0	-	0	-	0	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
0	-	0	-	0	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
0	-	0	-	0	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-

Teljes genomi DNS

6U

7M

7U

Ae. comosa (MM)

Ae. umbellulata
(UU)

-	-	-	-	0
-	-	-	-	-
-	-	-	-	0
0	-	-	-	0
-	-	-	-	0
-	-	-	-	1
-	1	-	-	1
-	-	-	-	1
-	-	-	-	1
0	-	-	0	0
0	-	-	-	0
-	-	-	-	1
-	-	-	-	-
-	-	-	-	1
0	-	-	-	0
-	-	-	-	-
0	-	-	-	0
0	-	-	-	0
-	-	-	-	-
-	-	-	-	0
-	-	-	1	0
-	-	-	1	-
-	-	-	1	-
-	-	-	-	1
-	-	0	-	0
0	-	-	-	0
-	-	-	-	1
1	-	1	-	-
0	-	-	-	0
-	-	-	-	-
-	-	-	-	1
0	-	-	-	0
-	-	-	-	0
-	-	-	-	1
-	-	-	-	1
-	-	-	-	0
-	-	-	-	0
-	-	-	0	1
-	-	-	-	1
-	-	-	-	0
-	-	-	-	-
-	-	-	-	1
0	-	-	-	-
1	-	1	-	1

-	-	-	-	1
-	-	-	-	1
-	-	-	-	-
-	-	-	-	1
-	-	-	-	-
0	-	-	-	0
-	-	-	-	1
-	-	-	-	0
-	-	-	-	1
-	-	-	-	0
-	-	0	-	0
-	-	-	-	0
-	-	-	-	-
0	-	-	-	0
-	0	-	-	-
-	-	-	-	0
-	-	-	-	-
-	-	-	-	0
-	-	-	-	-
-	-	-	-	-
-	-	-	-	0
-	-	-	-	-
-	-	-	-	-
-	-	-	-	0
-	-	-	-	-
-	-	-	-	-

<i>Ae. biuncialis</i>				
Marker	Marker szekvencia	Kapcsoltsági csoport (LG)	Kr.	cM
1 mab1941	TGCAGCTGACCLG4		3M	0
2 mab1535	TGCAGCTGGGALG4		3M	1.34
3 fM2-mab2909	TGCAGCTGTGALG4		3M	2.92
4 mab1231	TGCAGACCTTG ⁺ LG4		3M	4.28
5 fU1-mab784	TGCAGCGGCGALG4		3M	5.17
6 mab3493	TGCAGCCATCC ⁺ LG4		3M	7.22
7 mab1709	TGCAGGAAGGCLG4		3M	17.04
8 mab1334	TGCAGCGAGCCLG4		3M	19.32
9 fM2-mab2926	TGCAGGCCATGLG4		3M	19.77
10 M12-mab5274	TGCAGGAGTAG ⁺ LG4		3M	21.37
11 fU1-mab711	TGCAGCCCAAALG4		3M	25.8
12 mab1320	TGCAGGGGCCALG4		3M	26.47
13 mab4347	TGCAGATCCTC(LG4		3M	26.69
14 mab3650	TGCAGGTGGCCLG4		3M	29.18
15 mab4444	TGCAGGATCAA ⁺ LG4		3M	32.35
16 mab4117	TGCAGACAGTC LG4		3M	35.52
17 mab3386	TGCAGGCGAAELG4		3M	38.24
18 mab171	TGCAGACTGTT(LG4		3M	39.81
19 mab2038	TGCAGACCCCA ⁺ LG4		3M	41.15
20 mab145	TGCAGCCTCCC LG4		3M	43.18
21 mab3489	TGCAGCTTCCT LG4		3M	45.66
22 mab3773	TGCAGCGGGTCLG4		3M	47
23 mab2504	TGCAGCTTGCT LG4		3M	48.57
24 mab1115	TGCAGCTGACT LG4		3M	49.91
25 G-mab605	TGCAGGTCGAGLG4		3M	50.13
26 fM2-mab2953	TGCAGTTTCTCCLG4		3M	52.61
27 mab4351	TGCAGGAGCTGLG4		3M	53.05
28 mab4113	TGCAGATCGGGLG4		3M	57.41
29 mab3516	TGCAGCAGCTC LG4		3M	58.75
30 mab1659	TGCAGGGGCG(LG4		3M	58.97
31 fM2-mab2915	TGCAGCTCACG(LG4		3M	60.77
32 mab1919	TGCAGTGGCGCLG4		3M	61.44
33 mab174	TGCAGGCCCT(LG4		3M	64.38
34 U123-mab5589	TGCAGCCGCGALG4		3M	64.82
35 mab3283	TGCAGACTCTG LG4		3M	65.71
36 mab4448	TGCAGAATCTG LG4		3M	66.61
37 M12-mab5143	TGCAGTGGCAGLG4		3M	68.66
38 mab4558	TGCAGCATGTG LG4		3M	70.23
39 fU1-mab701	TGCAGTCGCGGLG4		3M	71.35
40 mab4137	TGCAGCCACTC LG4		3M	71.57
41 mab4382	TGCAGAGGGCCLG4		3M	74.99
42 mab4255	TGCAGGACAAT LG4		3M	75.66
43 mab4145	TGCAGGACACGLG4		3M	80.95
44 mab4586	TGCAGTTGCTC/LG4		3M	81.84

45 U123-mab5564	TGCAGCTAGCA ¹ LG4	3M	83.41
46 fM2-mab2935	TGCAGGCGTAGLG4	3M	84.3
47 mab4595	TGCAGGGCGCALG4	3M	85.42
48 fM2-mab2937	TGCAGCGCGGALG4	3M	86.99
49 mab4032	TGCAGAGAGTA LG4	3M	88.11
50 mab1207	TGCAGAGGCTALG4	3M	92.46
51 mab3387	TGCAGCGACCTLG4	3M	98.98
52 U123-mab5737	TGCAGTGCGCGLG4	3M	99.65
53 mab1803	TGCAGGCCTTC ¹ LG4	3M	105.43
54 mab3982	TGCAGCTGTGALG4	3M	106.33
55 mab3389	TGCAGCCTCGGLG4	3M	108.38
56 mab3264	TGCAGTTTCCC ¹ LG4	3M	108.82
57 M12-mab5196	TGCAGCTCGAC ¹ LG4	3M	110.18
58 mab3780	TGCAGCGAGAGLG4	3M	110.63
59 mab370	TGCAGGTAGAA LG4	3M	117.13
60 mab1691	TGCAGCACGAC ¹ LG4	3M	121.24
61 mab2345	TGCAGGACGTGLG4	3M	122.36
62 G-mab409	TGCAGCACGGGLG4	3M	124.39
63 C-mab409	TGCAGCACGGGLG4	3M	125.73
64 mab1074	TGCAGCACAGALG4	3M	127.07
65 mab3420	TGCAGCAAGAALG4	3M	131.23
66 mab646	TGCAGGCACCGLG4	3M	132.13
67 fU1-mab675	TGCAGCTGATT LG4	3M	136.7
68 mab1248	TGCAGGGGCA ¹ LG4	3M	144.17
69 mab2280	TGCAGGCGCC ¹ LG4	3M	146.65
70 mab2005	TGCAGGCGACTLG4	3M	148.22
71 M12-mab5185	TGCAGCTCCTG LG4	3M	152.09
72 mab1409	TGCAGCCGCTC ¹ LG4	3M	153.43
73 mab4385	TGCAGGCCGCC ¹ LG4	3M	156.83
74 mab4552	TGCAGGGGCCTLG4	3M	163.31
75 mab3958	TGCAGTGTGCGLG4	3M	168.59
76 mab4796	TGCAGTATTGTALG4	3M	170.86
77 mab1988	TGCAGTCTGGC ¹ LG4	3M	184.4
78 mab3446	TGCAGCCGCTT ¹ LG4	3M	189.21
79 mab1171	TGCAGCGAATC LG4	3M	191.24
80 mab416	TGCAGCATGTC ¹ LG4	3M	197.51
81 mab3366	TGCAGCTAGCC ¹ LG4	3M	200.45
82 mab1856	TGCAGCACATC LG4	3M	203.17
83 mab4539	TGCAGGGTGCALG4	3M	208.69
84 mab184	TGCAGCCGCAALG4	3M	209.13

Legjobb BLASTn találat

T. aestivum A genom

Kr.	start	end	e-érték	Azonossági %
7A	2.71E+08	2.71E+08	1.42E-24	97.10
7A	6.72E+08	6.72E+08	1.03E-13	86.77
3A	11527548	11527613	6.06E-23	96.97
7A	3.95E+08	3.95E+08	0.053	92.59
3A	25922333	25922377	6.63E-12	95.56
3A	24787535	24787568	4.94E-09	100.00
3A	22556265	22556311	3.54E-11	93.62
3A	2.53E+08	2.53E+08	0.026	78.57
3A	20558694	20558762	6.06E-23	95.65
3A	20387855	20387919	2.94E-14	89.23
3A	19969158	19969182	0.007	96.00
3A	19862722	19862758	7.74E-08	94.60
3A	19475543	19475611	1.98E-16	88.41
3A	28216731	28216778	7.41E-12	93.75
3A	60500467	60500516	0.000102	82.00
3A	34610918	34610973	3.13E-12	89.29
1A	4.89E+08	4.89E+08	4.5	83.87
3A	38537333	38537387	5.18E-15	94.55
6A	13813771	13813792	0.067	100.00
3A	40913369	40913437	1.17E-25	98.55
3A	47048151	47048191	6.66E-11	97.56
3A	52458935	52458988	1.27E-16	96.30
3A	54934500	54934574	2.94E-14	84.00
3A	60219372	60219414	5.85E-12	97.67
3A	61214647	61214697	9.17E-18	100.00
3A	84184790	84184858	7.38E-22	94.20
3A	1.07E+08	1.07E+08	1.8E-07	100.00
3A	2E+08	2E+08	3.9E-16	98.04
1A	4.05E+08	4.05E+08	3.03E-09	93.02
3A	4.36E+08	4.36E+08	1.17E-25	98.55
3A	4.85E+08	4.85E+08	6.06E-23	95.65
7A	5.06E+08	5.06E+08	6.06E-23	95.65
3A	5.68E+08	5.68E+08	1.42E-24	97.10
3A	5.74E+08	5.74E+08	7.88E-09	89.58
3A	5.97E+08	5.97E+08	2.56E-06	94.12
5A	5.96E+08	5.96E+08	1.1	92.00
3A	6.05E+08	6.05E+08	1.42E-24	97.10
3A	6.16E+08	6.16E+08	1.42E-24	97.10
3A	6.26E+08	6.26E+08	2.94E-19	96.61
3A	6.32E+08	6.32E+08	6.91E-16	96.23
2A	7.05E+08	7.05E+08	0.31	80.95
3A	6.45E+08	6.45E+08	1.42E-24	97.10
3A	6.57E+08	6.57E+08	6.57E-14	92.59
3A	6.62E+08	6.62E+08	8.2E-12	92.00

T. aestivum B genom

Kr.	start
4B	6.18E+08
5B	5.47E+08
3B	13826239
7B	3.22E+08
3B	25285530
3B	17974293
3B	20807853
3B	1.93E+08
3B	22915757
3B	23401769
3B	24069841
3B	24410266
3B	24940760
3B	32948632
3B	39357565
3B	42732853
3B	3064539
3B	49779408
3B	49870457
3B	51944404
3B	59327876
3B	64316056
3B	66822104
3B	75657673
3B	77688806
3B	1.18E+08
3B	1.41E+08
3B	2.43E+08
4B	3.66E+08
3B	4.21E+08
3B	4.74E+08
1B	3.23E+08
3B	5.63E+08
3B	5.72E+08
3B	5.98E+08
5B	5.84E+08
3B	6.14E+08
3B	6.3E+08
3B	6.45E+08
3B	6.51E+08
3B	6.69E+08
3B	6.69E+08
3B	6.87E+08
3B	6.97E+08

3A	6.63E+08	6.63E+08	1.25E-12	95.75	3B	7E+08
3A	6.73E+08	6.73E+08	1.46E-17	93.44	3B	7.12E+08
3A	6.77E+08	6.77E+08	8.04E-06	86.67	1B	4.82E+08
2A	7.22E+08	7.22E+08	0.007	78.18	2B	3.41E+08
3A	6.87E+08	6.87E+08	3.24E-12	95.65	3B	7.3E+08
3A	6.9E+08	6.9E+08	1.85E-10	79.71	3B	7.35E+08
3A	6.97E+08	6.97E+08	6.37E-10	97.44	3B	7.46E+08
5A	4.58E+08	4.58E+08	3.8	86.21	3B	7.46E+08
3A	6.98E+08	6.98E+08	7.3E-20	100.00	3B	7.5E+08
3A	7E+08	7E+08	5.14E-16	94.83	3B	7.53E+08
3A	7E+08	7E+08	6.73E-13	94.00	6B	3.75E+08
5A	5.61E+08	5.61E+08	0.39	95.46	3B	6.68E+08
3A	7.03E+08	7.03E+08	6.06E-23	95.65	3B	7.57E+08
3A	7.03E+08	7.03E+08	6.06E-23	95.65	3B	7.58E+08
3A	7.09E+08	7.09E+08	3.56E-05	91.43	3B	7.63E+08
3A	7.11E+08	7.11E+08	2.57E-21	94.29	3B	7.65E+08
3A	7.11E+08	7.11E+08	7.38E-22	94.20	3B	7.67E+08
3A	7.15E+08	7.15E+08	3.37E-16	100.00	3B	7.74E+08
3A	7.15E+08	7.15E+08	3.37E-16	100.00	3B	7.74E+08
3A	7.15E+08	7.15E+08	3.82E-10	91.49	3B	7.75E+08
3A	7.16E+08	7.16E+08	8.38E-07	94.29	3B	7.76E+08
3A	7.16E+08	7.16E+08	0.14	86.67	3B	7.78E+08
4A	6.59E+08	6.59E+08	0.001	90.91	1B	3.5E+08
3A	7.18E+08	7.18E+08	3.82E-19	91.30	3B	7.86E+08
3A	7.19E+08	7.19E+08	1.33E-18	92.42	3B	7.87E+08
3A	7.21E+08	7.21E+08	7.38E-22	94.20	7B	3.17E+08
3A	7.25E+08	7.25E+08	2.41E-15	91.67	4B	3.67E+08
3A	7.28E+08	7.28E+08	7.89E-14	89.83	3B	4.87E+08
3A	7.3E+08	7.3E+08	1.42E-16	94.74	3B	8.05E+08
7A	4.25E+08	4.25E+08	0.21	89.66	3B	8.07E+08
7A	17436152	17436186	0.23	86.49	3B	1735696
5A	7.08E+08	7.08E+08	4.8	86.21	7B	1.74E+08
3A	7.37E+08	7.37E+08	1.09E-19	92.65	3B	8.12E+08
3A	7.4E+08	7.4E+08	0.089	85.29	3B	8.14E+08
3A	7.4E+08	7.4E+08	0.000342	88.89	7B	7.12E+08
3A	7.43E+08	7.43E+08	1.25E-12	85.08	3B	8.17E+08
					3B	8.18E+08
					3B	8.21E+08

			<i>T. aestivum</i> D genom			
end	e-érték	Azonosság gi %	Kr.	start	end	e-érték
6.18E+08	3.29E-20	92.75	2D	6.41E+08	6.41E+08	0.021
5.47E+08	1.95E-10	97.56	5D	15501852	15501890	1.85E-09
13826280	0.000015	86.67	3D	5051877	5051918	1.17E-05
3.22E+08	0.056	92.59	3D	10576889	10576926	0.001
25285574	1.44E-07	88.89	3D	11358709	11358750	9.6E-09
17974326	2.69E-06	94.12	3D	12357851	12357884	0.001
20807887	2.86E-06	94.29	3D	14160466	14160498	2.18E-06
1.93E+08	1.01E-07	80.95	3D	14784422	14784486	1.74E-22
22915825	7.74E-22	94.20	3D	15977591	15977659	8.42E-14
23401814	4.58E-12	95.65	3D	16045670	16045721	8.42E-14
24069859	0.31	100.00	3D	16639818	16639842	0.00013
24410302	8.12E-08	94.60	3D	17011875	17011911	2.93E-06
24940828	4.01E-19	91.30	3D	11351536	11351602	1.98E-15
32948679	1.5E-14	97.92	3D	20562327	20562374	1.21E-14
39357616	7.73E-13	92.31	3D	48353164	48353212	6.73E-06
42732908	1.01E-18	98.21	3D	25199535	25199590	7.67E-19
3064576	0.00074	86.84	3D	2753460	2753500	3.12E-07
49779451	6.62E-14	100.00	3D	29249461	29249515	2.15E-12
49870513	3.63E-18	96.49	5D	2.64E+08	2.64E+08	2.3
51944472	1.23E-25	98.55	3D	29967498	29967566	9.6E-26
59327917	2E-11	97.62	3D	36824531	36824571	5.33E-11
64316109	1.33E-16	96.30	3D	40753319	40753370	5.26E-14
66822178	3.08E-14	84.00	3D	42990391	42990444	1.17E-05
75657715	6.14E-12	97.67	3D	47967798	47967840	5.71E-11
77688856	9.62E-18	100.00	3D	48804883	48804933	7.34E-18
1.18E+08	7.74E-22	94.20	3D	71964448	71964516	9.6E-26
1.41E+08	1.55E-08	100.00	3D	91224504	91224536	5.03E-07
2.43E+08	4.98E-15	96.08	3D	1.68E+08	1.68E+08	7.34E-18
3.66E+08	0.000854	83.72	3D	2.78E+08	2.78E+08	8.47E-09
4.21E+08	1.5E-24	97.10	3D	3E+08	3E+08	1.74E-22
4.74E+08	1.5E-24	97.10	3D	3.64E+08	3.64E+08	2.26E-27
3.23E+08	5.22E-05	81.13	5D	2.84E+08	2.84E+08	6.06E-22
5.63E+08	1.5E-24	97.10	3D	4.3E+08	4.3E+08	1.17E-24
5.72E+08	3.29E-20	93.94	3D	4.36E+08	4.36E+08	8.99E-20
5.98E+08	2.69E-06	94.12	3D	4.55E+08	4.55E+08	2.05E-06
5.84E+08	1.2	92.00	5D	4.76E+08	4.76E+08	0.9
6.14E+08	3.29E-20	95.31	3D	4.62E+08	4.62E+08	1.42E-23
6.3E+08	1.23E-25	98.55	3D	4.74E+08	4.74E+08	9.6E-26
6.45E+08	1.31E-17	94.92	3D	4.83E+08	4.83E+08	5.54E-21
6.51E+08	1.5E-24	97.10	3D	4.88E+08	4.88E+08	1.17E-24
6.69E+08	0.000636	76.19	3D	5.07E+08	5.07E+08	1.63E-16
6.69E+08	1.23E-25	98.55	3D	5.07E+08	5.07E+08	1.17E-24
6.87E+08	5.66E-15	94.44	3D	5.22E+08	5.22E+08	5.26E-14
6.97E+08	7.06E-13	94.00	3D	5.27E+08	5.27E+08	4.14E-08

7E+08	5.58E-11	93.62
7.12E+08	2.87E-20	95.31
4.82E+08	0.65	80.95
3.41E+08	0.027	90.32
7.3E+08	2.79E-13	89.66
7.35E+08	0.002	77.33
7.46E+08	3.46E-07	92.31
7.46E+08	0.094	96.00
7.5E+08	7.66E-20	100.00
7.53E+08	5.39E-16	93.10
3.75E+08	0.62	86.67
6.68E+08	5	95.00
7.57E+08	1.71E-17	89.86
7.58E+08	1.5E-24	97.10
7.63E+08	3.74E-05	91.43
7.65E+08	2.7E-21	95.46
7.67E+08	1.5E-24	97.10
7.74E+08	1.5E-14	97.92
7.74E+08	1.5E-14	97.92
7.75E+08	2.08E-07	87.23
7.76E+08	7.22E-08	97.14
7.78E+08	0.012	90.00
3.5E+08	0.001	88.57
7.86E+08	6.36E-23	95.65
7.87E+08	1.71E-17	90.91
3.17E+08	3.29E-20	92.75
3.67E+08	1.2	88.89
4.87E+08	7.25E-16	93.10
8.05E+08	4.29E-11	87.72
8.07E+08	1.22E-17	96.43
1735727	0.063	87.50
1.74E+08	0.86	87.50
8.12E+08	0.01	90.00
8.14E+08	2.22E-22	95.59
7.12E+08	4	95.24
8.17E+08	0.000261	96.55
8.18E+08	2.12E-13	94.12
8.21E+08	2.08E-16	88.41

3D	5.29E+08	5.29E+08	4.36E-11
3D	5.38E+08	5.38E+08	2.25E-20
3D	5.41E+08	5.41E+08	1.24E-08
3D	5.48E+08	5.48E+08	6.47E-09
3D	5.5E+08	5.5E+08	5.01E-15
3D	5.54E+08	5.54E+08	2.26E-08
3D	5.61E+08	5.61E+08	6.21E-09
3D	5.61E+08	5.61E+08	0.074
3D	5.63E+08	5.63E+08	5.84E-20
3D	5.65E+08	5.65E+08	7.94E-19
3D	5.67E+08	5.67E+08	1.27E-14
3D	5.7E+08	5.7E+08	0.002
3D	5.7E+08	5.7E+08	4.97E-23
3D	5.71E+08	5.71E+08	1.17E-24
1D	2.9E+08	2.9E+08	0.63
3D	5.75E+08	5.75E+08	1.74E-22
4D	4.95E+08	4.95E+08	1.33E-17
3D	5.79E+08	5.79E+08	2.84E-16
3D	5.79E+08	5.79E+08	2.84E-16
2D	9011715	9011739	0.52
2D	2.15E+08	2.15E+08	9.95E-05
3D	5.81E+08	5.81E+08	1.46E-06
3D	5.83E+08	5.83E+08	6.25E-07
3D	5.87E+08	5.87E+08	1.85E-09
3D	5.88E+08	5.88E+08	1.33E-17
3D	5.89E+08	5.89E+08	9.6E-26
3D	5.91E+08	5.91E+08	1.17E-24
5D	2.81E+08	2.81E+08	3.3
3D	5.94E+08	5.94E+08	6.06E-22
3D	5.98E+08	5.98E+08	4.54E-22
3D	6E+08	6E+08	1.14E-16
3D	6E+08	6E+08	4.21E-09
5D	5.5E+08	5.5E+08	2.3
6D	57018415	57018444	1.4
5D	4.81E+08	4.81E+08	0.074
6D	4.43E+08	4.43E+08	0.86
1D	1.25E+08	1.25E+08	4.4
3D	6.08E+08	6.08E+08	2.4E-11
3D	6.1E+08	6.1E+08	2.58E-20
3D	6.09E+08	6.09E+08	1.04E-15

DArTseq markerekkel detektált SNP-k alélváltozatai

Izolát

Azonossági %

1M 1U 2M 2U 3M 3U

88.57	-	-	-	-	-	-
97.44	-	-	0	-	0	-
86.67	-	-	-	0	-	0
86.84	-	-	1	-	1	-
92.86	-	-	0	-	0	-
88.24	-	-	-	-	0	-
96.97	-	-	-	-	1	-
96.92	-	-	-	-	0	-
85.51	-	-	-	-	0	-
94.23	-	-	0	-	0	-
100.00	-	-	-	-	0	-
91.89	-	-	-	-	0	0
88.06	-	-	-	-	0	-
97.92	-	-	-	-	-	-
83.67	-	-	0	-	0	-
98.21	-	-	0	-	0	-
90.24	1	-	1	-	1	-
90.91	-	-	-	-	1	-
95.46	-	-	-	-	1	-
98.55	-	-	-	-	1	-
97.56	-	-	-	-	-	-
94.23	-	-	-	-	0	-
73.91	-	-	-	-	1	-
95.35	-	-	-	-	-	-
100.00	-	-	-	-	-	-
98.55	-	-	-	-	0	-
96.97	0	-	-	-	0	-
100.00	0	-	0	-	0	-
92.86	-	-	-	-	1	-
95.59	-	-	-	-	-	-
100.00	-	-	0	-	0	-
94.20	-	-	-	-	1	-
97.10	-	-	1	-	1	-
92.65	-	-	0	-	2	-
94.12	-	-	-	-	0	-
92.00	-	-	-	-	1	-
98.46	-	-	-	-	0	-
98.55	-	-	-	-	0	-
100.00	-	-	-	-	1	-
97.10	-	-	1	-	2	-
91.94	-	-	-	-	1	-
97.10	-	-	-	-	0	-
92.59	-	-	0	-	0	-
90.70	-	-	-	-	0	-

93.62	-	-	-	-	-
95.31	-	-	-	0	-
88.00	-	-	-	0	-
100.00	-	0	-	0	-
92.86	-	-	-	0	-
85.71	-	1	-	1	-
94.87	-	-	-	1	-
85.71	-	-	-	-	-
100.00	0	0	-	0	-
96.55	-	-	-	0	-
96.00	-	-	-	0	-
92.86	-	-	-	0	-
95.65	-	-	-	-	-
97.10	-	-	-	0	-
95.46	-	-	-	-	-
95.71	-	1	-	1	-
89.86	1	-	-	1	0
100.00	-	0	0	0	0
100.00	-	0	0	0	0
92.00	-	1	-	1	-
91.18	-	1	0	1	-
96.88	-	-	-	-	-
94.44	-	0	-	2	-
90.57	-	-	-	-	-
89.86	-	-	-	-	-
98.55	-	-	-	1	-
97.10	-	-	-	0	-
100.00	-	-	-	0	-
94.20	-	-	-	1	-
100.00	-	-	-	0	-
94.74	-	-	-	0	-
84.48	-	0	-	0	-
91.67	-	-	-	-	-
86.67	-	-	-	-	-
80.00	-	-	-	-	-
95.83	-	-	-	-	-
100.00	-	0	-	0	-
95.46	-	-	-	0	0
92.75	-	1	-	1	-
98.00	-	1	-	1	-

-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	0	-
-	-	-	-	-	-	-	-
1	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
0	-	-	-	-	-	0	-
-	-	-	-	0	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	0	-	-
-	-	-	-	0	0	0	-
-	-	-	-	0	0	0	-
-	-	-	-	1	-	-	-
1	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
1	-	1	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	0	-	-	-	0	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
0	-	-	-	0	-	0	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
0	-	-	-	-	-	0	-
-	0	-	-	-	0	-	-
-	-	-	-	-	-	-	-
1	-	1	-	-	-	-	-

Teljes genomi DNS

Ae. comosa Ae. umbellulata (UU)
(MM)

-	-
0	-
-	0
1	-
0	-
0	-
1	-
0	-
0	-
0	-
0	-
0	0
-	-
-	-
0	-
0	-
1	-
1	-
-	-
1	-
-	-
0	-
1	-
-	-
-	-
0	-
0	-
0	-
-	-
-	-
0	-
1	-
1	-
0	-
0	-
1	-
0	-
0	-
1	-
1	-
1	-
0	-
0	-
0	-

-	-
0	-
0	-
0	-
0	-
1	-
-	-
-	-
0	-
-	-
-	-
-	-
-	-
-	-
-	-
1	-
1	0
0	0
0	0
1	-
1	-
-	-
0	-
-	-
-	-
1	-
-	-
0	-
1	-
0	-
0	-
0	-
-	-
-	-
-	-
-	-
0	-
-	0
1	-
1	-

<i>Ae. biuncialis</i>					Legjobb BL
Marker	Marker szekvencia	Kapcsoltsági csoport (LG)	Kr.	cM	<i>T. aestivum</i> Kr.
1 G2-mab1329	TGCAGAAAA	LG5	3U		0 3A
2 mab635	TGCAGCTGG	LG5	3U	0.44	3A
3 fU1-mab688	TGCAGCAGC	LG5	3U	1.11	3A
4 mab620	TGCAGGTTT	LG5	3U	1.55	3A
5 fU1-mab692	TGCAGAACA	LG5	3U	1.77	7A
6 mab488	TGCAGGGGC	LG5	3U	3.57	
7 U123-mab5502	TGCAGGTGG	LG5	3U	6.75	3A
8 mab1008	TGCAGGAAG	LG5	3U	8.32	3A
9 mab4098	TGCAGGCCA	LG5	3U	8.76	6A
10 fU1-mab768	TGCAGACGA	LG5	3U	9.2	3A
11 mab3769	TGCAGTCACT	LG5	3U	9.64	3A
12 mab4461	TGCAGCTGG	LG5	3U	10.08	3A
13 mab4780	TGCAGTGGTT	LG5	3U	10.75	3A
14 U123-mab5633	TGCAGCAAG	LG5	3U	16.05	3A
15 mab4054	TGCAGAACA	LG5	3U	17.62	3A
16 mab4522	TGCAGAGCC	LG5	3U	18.96	3A
17 mab4176	TGCAGCCTG	LG5	3U	19.63	3A
18 mab522	TGCAGAGGA	LG5	3U	20.98	3A
19 mab176	TGCAGCACT	LG5	3U	22.79	3A
20 mab3723	TGCAGAACT	LG5	3U	23.91	1A
21 mab1351	TGCAGAATCT	LG5	3U	25.71	5A
22 mab1945	TGCAGCACCC	LG5	3U	28.19	3A
23 mab1609	TGCAGAACA	LG5	3U	29.76	3A
24 mab3602	TGCAGAGAA	LG5	3U	30.2	6A
25 mab3946	TGCAGCCGA	LG5	3U	32	3A
26 mab1793	TGCAGTCCC	LG5	3U	35.91	2A
27 mab3270	TGCAGCATCT	LG5	3U	42.22	2A
28 mab2106	TGCAGCATT	LG5	3U	42.89	3A
29 M12-mab5401	TGCAGTATTT	LG5	3U	51.33	3A
30 mab1957	TGCAGAGCC	LG5	3U	54.51	3A
31 mab1097	TGCAGCCTC	LG5	3U	57.68	3A
32 mab1289	TGCAGGCGG	LG5	3U	59.7	3A
33 fU1-mab771	TGCAGCCAC	LG5	3U	62.41	7A
34 mab903	TGCAGCATG	LG5	3U	63.3	7A
35 mab1481	TGCAGAGAG	LG5	3U	63.97	3A
36 mab3823	TGCAGCAGT	LG5	3U	66.73	3A
37 mab1625	TGCAGACGA	LG5	3U	68.09	3A
38 mab1645	TGCAGAACTA	LG5	3U	69.21	3A
39 mab424	TGCAGAGTG	LG5	3U	71.23	3A
40 mab3392	TGCAGCTGG	LG5	3U	75.1	3A
41 fM2-mab2919	TGCAGACTT	LG5	3U	76.9	1A
42 fM2-mab2934	TGCAGGCGT	LG5	3U	78.47	3A
43 mab3967	TGCAGCTGC	LG5	3U	80.5	3A

44 mab4470	TGCAGGATGCLG5	3U	85.55	3A
45 mab4463	TGCAGTGCTCLG5	3U	86.68	3A
46 fM2-mab2938	TGCAGCCAG(LG5	3U	88.27	5A
47 mab4004	TGCAGCTAGCLG5	3U	91.9	3A
48 mab525	TGCAGGTGGTLG5	3U	93.47	3A
49 mab1539	TGCAGTTTCA(LG5	3U	98.76	2A
50 mab907	TGCAGGGGG(LG5	3U	104.3	5A
51 fU1-mab832	TGCAGGCGC(LG5	3U	107.49	7A
52 mab3765	TGCAGCGCC(LG5	3U	108.84	3A
53 mab2447	TGCAGCGCG(LG5	3U	110.18	3A
54 mab2242	TGCAGTGCCTLG5	3U	118.17	3A
55 mab3379	TGCAGCCCC(LG5	3U	119.29	3A
56 fM2-mab2960	TGCAGTAAGTLG5	3U	121.54	3A
57 mab4531	TGCAGCGTCTLG5	3U	136.18	3A
58 mab3728	TGCAGCCGC(LG5	3U	140.05	3A
59 M12-mab4979	TGCAGGGTC(LG5	3U	145.59	3A

.ASTn találat

γ A genom

start	end	e-érték	Azonossági %
3.53E+08	3.53E+08	0.29	88.89
1.21E+08	1.21E+08	4.25E-16	96.23
1.08E+08	1.08E+08	6.69E-15	87.88
7.33E+08	7.33E+08	0.67	89.29
6.18E+08	6.18E+08	2.23E-05	100.00
4.56E+08	4.56E+08	1.42E-24	97.10
4.77E+08	4.77E+08	1.85E-10	85.51
1.1E+08	1.1E+08	0.81	88.24
5.02E+08	5.02E+08	9.88E-09	92.86
5.08E+08	5.08E+08	1.09E-19	89.33
5.16E+08	5.16E+08	6.06E-23	95.65
5.44E+08	5.44E+08	7.38E-22	94.20
5.31E+08	5.31E+08	1.17E-25	98.55
5.29E+08	5.29E+08	1.42E-24	97.10
5.68E+08	5.68E+08	1.98E-16	88.41
5.75E+08	5.75E+08	1.45E-09	87.04
5.79E+08	5.79E+08	7.76E-09	94.87
5.88E+08	5.88E+08	8.99E-21	94.03
5.88E+08	5.88E+08	0.024	95.83
5.96E+08	5.96E+08	1.1	92.00
6.04E+08	6.04E+08	1.09E-19	93.85
6.08E+08	6.08E+08	0.067	96.00
5.61E+08	5.61E+08	6.05E-22	100.00
6.21E+08	6.21E+08	3.9E-16	98.04
28674970	28675024	3.78E-17	96.36
1.74E+08	1.74E+08	0.49	86.21
6.4E+08	6.4E+08	5.67E-17	90.77
6.44E+08	6.44E+08	6.06E-23	95.65
6.47E+08	6.47E+08	1.98E-16	88.41
6.48E+08	6.48E+08	0.002	100.00
6.48E+08	6.48E+08	2.11E-22	96.92
3.96E+08	3.96E+08	1	91.30
6.89E+08	6.89E+08	2.3E-06	94.29
6.52E+08	6.52E+08	6.06E-23	95.65
6.54E+08	6.54E+08	8.1E-07	85.71
6.54E+08	6.54E+08	2.11E-22	95.59
6.56E+08	6.56E+08	4.98E-05	72.29
6.59E+08	6.59E+08	8.93E-06	94.29
6.63E+08	6.63E+08	7.69E-13	92.59
4E+08	4E+08	2	91.67
6.73E+08	6.73E+08	2.82E-20	96.72
6.72E+08	6.72E+08	3.34E-18	100.00

T. aestivum B genom

Kr.	start
3B	1.57E+08
3B	1.61E+08
3B	1.64E+08
3B	1.72E+08
7B	5.77E+08
3B	4.37E+08
3B	4.59E+08
3B	4.74E+08
3B	4.92E+08
3B	5.03E+08
3B	5.22E+08
3B	5.33E+08
3B	5.47E+08
3B	5.5E+08
3B	5.62E+08
3B	5.72E+08
3B	5.76E+08
3B	5.85E+08
1B	6.82E+08
5B	5.84E+08
3B	6.12E+08
3B	5.93E+08
7B	44379671
3B	6.37E+08
2B	16969141
3B	7.72E+08
6B	4.95E+08
3B	6.67E+08
3B	6.72E+08
3B	6.73E+08
3B	6.76E+08
4B	11974721
5B	1.86E+08
3B	6.81E+08
3B	6.83E+08
3B	6.83E+08
3B	2.3E+08
3B	6.91E+08
3B	6.99E+08
3B	7.03E+08
3B	7.12E+08
3B	7.09E+08

6.84E+08	6.84E+08	2.75E-27	100.00	3B	7.24E+08
13823281	13823349	1.42E-24	97.10	3B	7.25E+08
2.23E+08	2.23E+08	1.1	84.62	3B	7.42E+08
6.87E+08	6.87E+08	7.13E-11	95.35	3B	7.3E+08
6.88E+08	6.88E+08	8.38E-07	94.29	3B	7.3E+08
2899850	2899912	5.31E-11	85.71	2B	8687823
5.36E+08	5.36E+08	1.02E-16	100.00	3B	218074
3.2E+08	3.2E+08	0.007	92.59	4B	4.68E+08
6.97E+08	6.97E+08	7.76E-09	94.87	3B	7.46E+08
6.98E+08	6.98E+08	6.06E-23	95.65	5B	6.77E+08
6.99E+08	6.99E+08	1.17E-25	98.55	3B	7.52E+08
7E+08	7E+08	4.75E-11	100.00	3B	7.53E+08
7.01E+08	7.01E+08	2.26E-09	80.56	3B	7.56E+08
7.11E+08	7.11E+08	7.88E-09	81.16	3B	7.65E+08
7.11E+08	7.11E+08	4.61E-16	96.23	3B	7.67E+08
7.13E+08	7.13E+08	1.78E-16	90.63	3B	7.71E+08

end	e-érték	Azonossági %	<i>T. aestivum</i> D genom		
			Kr.	start	end
1.57E+08	0.000596	96.30	3D	1.05E+08	1.05E+08
1.61E+08	8.62E-19	100.00	3D	1.1E+08	1.1E+08
1.64E+08	1.65E-16	89.39	3D	1.13E+08	1.13E+08
1.72E+08	3.66E-17	98.11	3D	1.2E+08	1.2E+08
5.77E+08	2.34E-05	100.00	3D	1.26E+08	1.26E+08
			6D	1.41E+08	1.41E+08
4.37E+08	6.36E-23	95.65	3D	3.38E+08	3.38E+08
4.59E+08	2.89E-08	82.81	3D	3.58E+08	3.58E+08
4.74E+08	1.04E-18	96.55	3D	3.64E+08	3.64E+08
4.92E+08	1.04E-08	92.86	3D	3.77E+08	3.77E+08
5.03E+08	0.027	79.17	3D	3.87E+08	3.87E+08
5.22E+08	1.5E-24	97.10	3D	3.97E+08	3.97E+08
5.33E+08	7.74E-22	94.20	3D	4.07E+08	4.07E+08
5.47E+08	2.89E-27	100.00	3D	4.2E+08	4.2E+08
5.5E+08	1.5E-24	98.51	3D	4.22E+08	4.22E+08
5.62E+08	1.71E-17	89.86	3D	4.3E+08	4.3E+08
5.72E+08	5.66E-15	94.44	3D	4.36E+08	4.36E+08
5.76E+08	1.57E-11	100.00	3D	4.4E+08	4.4E+08
5.85E+08	7.74E-22	95.52	3D	4.46E+08	4.46E+08
6.82E+08	0.088	95.65	1D	3.11E+08	3.11E+08
5.84E+08	1.2	92.00	5D	4.76E+08	4.76E+08
6.12E+08	2.22E-22	95.59	3D	4.61E+08	4.61E+08
5.93E+08	0.86	86.67	5D	1.23E+08	1.23E+08
44379729	6.35E-22	100.00	1D	1.27E+08	1.27E+08
6.37E+08	4.09E-16	98.04	3D	4.78E+08	4.78E+08
16969195	1.07E-11	89.09	3D	4.79E+08	4.79E+08
7.72E+08	0.51	100.00	3D	5.79E+08	5.79E+08
4.95E+08	4	100.00	3D	5.01E+08	5.01E+08
6.67E+08	6.36E-23	95.65	3D	5.05E+08	5.05E+08
6.72E+08	1.71E-17	89.86			
6.73E+08	0.002	100.00	3D	5.12E+08	5.12E+08
6.76E+08	2.22E-22	96.92	3D	5.13E+08	5.13E+08
11974740	0.088	100.00	3D	5.15E+08	5.15E+08
1.86E+08	0.053	85.71	7D	74580818	74580858
6.81E+08	1.6E-11	84.29	3D	5.17E+08	5.17E+08
6.83E+08	8.5E-07	85.71	3D	5.18E+08	5.18E+08
6.83E+08	2.22E-22	95.59	5D	4.05E+08	4.05E+08
2.3E+08	4	92.31	3D	5.2E+08	5.2E+08
6.91E+08	2.2E-07	97.06	3D	5.24E+08	5.24E+08
6.99E+08	1.78E-08	94.87	3D	5.29E+08	5.29E+08
7.03E+08	1.93E-13	96.00	3D	4.26E+08	4.26E+08
7.12E+08	5.54E-23	98.44	3D	5.38E+08	5.38E+08
7.09E+08	1.49E-16	98.08	3D	5.36E+08	5.36E+08

7.24E+08	2.89E-27	100.00	3D	5.47E+08	5.47E+08
7.25E+08	2.22E-22	94.37	3D	5.48E+08	5.48E+08
7.42E+08	7.74E-22	98.39	1D	1.66E+08	1.66E+08
7.3E+08	2.01E-05	86.05	3D	5.5E+08	5.5E+08
7.3E+08	1.07E-05	91.67	3D	5.5E+08	5.5E+08
8687880	3.52E-07	81.97	2D	2467895	2467947
218116	1.93E-13	100.00	1D	3.13E+08	3.13E+08
4.68E+08	0.025	92.31	2D	2.4E+08	2.4E+08
7.46E+08	4.22E-06	89.74	3D	5.61E+08	5.61E+08
6.77E+08	4.29E-06	90.48	3D	5.62E+08	5.62E+08
7.52E+08	1.5E-24	97.10	3D	5.64E+08	5.64E+08
7.53E+08	2.12E-09	97.37	3D	5.65E+08	5.65E+08
7.56E+08	8.84E-15	88.57	3D	5.66E+08	5.66E+08
7.65E+08	1.31E-12	85.51	3D	5.75E+08	5.75E+08
7.67E+08	4.84E-16	96.23	3D	5.76E+08	5.76E+08
7.71E+08	3.5E-19	93.75	3D	5.77E+08	5.77E+08

DArTseq markerekkel detektált SNP-k alélva

e-érték	Azonossági %	1M	1U	2M	2U
0.006	92.59	-	-	0	-
2.79E-17	98.11	-	-	-	0
1.87E-14	96.00	-	-	-	1
6.57E-19	100.00	-	-	-	0
3.44E-08	100.00	-	-	-	0
2.9	95.00	-	-	-	-
1.17E-24	97.10	-	-	-	-
6.91E-15	89.39	-	-	-	-
9.06E-12	87.93	-	-	-	0
1.86E-10	95.24	-	-	1	1
0.000143	96.67	-	-	-	0
4.97E-23	95.65	-	-	-	-
1.74E-22	98.41	-	-	-	0
2.26E-27	100.00	-	-	-	-
9.6E-26	98.55	-	-	-	-
4.97E-23	95.65	-	-	-	-
2.73E-11	88.89	-	-	-	-
1.2E-11	100.00	-	-	-	-
6.06E-22	95.52	-	1	-	-
0.24	100.00	-	-	-	-
0.9	92.00	-	0	1	-
3.35E-25	98.53	-	-	-	0
0.65	83.78	-	-	-	-
2.06E-20	98.31	-	-	-	-
7.34E-18	100.00	-	-	-	-
2.49E-18	98.18	-	-	-	-
0.39	100.00	-	0	-	0
4.36E-11	91.84	-	-	-	-
1.63E-16	98.08	-	-	-	-
8.38E-07	92.11	-	1	-	-
1.74E-22	96.92	-	-	-	-
0.019	92.31	-	-	-	-
2.25E-05	87.81	-	1	-	1
1.17E-24	97.10	-	-	0	-
3.14E-17	98.11	-	-	-	0
8.99E-20	92.65	-	-	-	-
2.75E-07	94.60	-	-	-	-
0.000025	94.12	-	-	-	-
1.36E-08	94.87	-	-	-	0
1.88E-12	97.83	-	-	-	-
4.35E-23	98.44	-	1	-	1
1.39E-15	96.15	-	-	-	0

4.97E-23	95.65
1.17E-24	97.10
0.021	87.18
5.71E-11	95.35
2.16E-07	94.44
1.25E-11	90.57
4.42E-14	95.92
0.019	92.31
2.64E-07	92.31
1.17E-05	92.31
9.6E-26	98.55
3.81E-11	100.00
1.17E-24	97.10
2.26E-27	100.00
2.49E-18	98.18
1.17E-17	92.19

-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	1
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	0
-	-	-	-
-	-	-	0
-	-	0	-
-	-	-	1
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

áltozatai

Izolált kromoszómák DNS mintái

3M 3U 4M 4U 5M 5U 6M 6U

0	-	-	-	-	-	-	-
-	0	-	-	-	-	-	0
-	1	-	-	-	-	-	1
-	0	-	-	-	-	-	0
-	0	-	0	-	-	-	0
-	1	-	-	-	-	-	1
-	0	-	-	-	-	-	0
-	0	-	0	-	-	-	0
-	0	-	-	-	-	-	0
-	1	-	1	-	-	-	1
-	0	-	0	-	-	-	0
-	0	-	-	-	-	-	0
-	0	-	0	-	-	-	0
-	1	-	-	-	-	-	1
-	0	-	-	-	-	-	0
-	0	-	-	-	-	-	0
-	0	-	0	-	-	-	0
-	0	-	-	-	-	-	0
-	1	-	1	-	-	1	1
-	0	-	-	-	-	-	0
-	0	-	-	-	-	-	0
-	0	-	-	-	-	-	0
-	0	-	0	-	0	-	0
-	0	-	-	-	-	-	0
-	0	-	-	-	-	-	0
-	0	-	0	-	-	-	0
-	0	-	-	-	-	-	0
-	1	-	1	-	-	-	1
-	1	-	-	-	-	-	1
-	1	-	-	-	-	-	1
-	1	-	-	-	-	-	1
-	-	-	-	-	-	-	-
-	1	-	-	-	-	-	1
-	1	-	-	-	-	-	1
-	1	-	-	-	-	-	1
-	0	-	0	-	-	-	0
-	1	-	-	-	1	-	1
-	1	-	1	-	-	-	1
-	1	-	-	-	-	-	1
-	0	-	0	-	-	-	0
-	0	-	0	-	-	-	0
-	1	-	1	-	-	-	1
-	0	-	0	-	-	-	0

-	0	-	-	-	-	-	0
-	-	-	-	-	-	-	-
-	0	-	-	-	-	-	0
-	1	-	-	-	-	-	1
-	1	-	-	-	1	-	1
-	0	-	-	-	-	-	0
-	-	-	-	-	-	-	-
-	0	-	0	-	-	-	0
1	0	-	-	-	-	1	0
-	1	-	-	-	-	-	1
-	-	-	-	-	-	-	-
-	1	-	-	-	1	-	1
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	1	-	-	-	-	-	1

Teljes genomi DNS

7M

7U

Ae. comosa
(MM)

Ae. umbellulata
(UU)

0	-	0	-
0	-	-	0
-	-	-	1
-	-	-	0
-	-	-	0
-	-	-	1
-	-	-	0
-	-	-	0
-	-	-	0
-	-	-	1
-	-	-	0
-	-	-	0
-	-	-	0
-	-	-	1
-	-	-	0
-	-	-	0
-	-	-	0
-	-	-	0
-	-	-	1
-	-	-	0
-	-	-	0
-	-	-	0
-	-	-	0
-	-	-	0
-	-	-	0
-	-	-	0
-	-	-	0
-	-	-	0
-	-	-	0
-	-	-	0
-	-	-	0
-	-	-	0
-	-	-	0
-	-	-	1
-	-	-	1
-	-	-	1
-	-	-	1
-	-	-	-
-	-	-	-
-	1	-	1
-	-	-	1
-	-	-	0
-	-	-	1
-	-	-	1
-	-	-	1
-	-	-	0
-	-	-	0
-	-	-	1
-	0	-	0

-	-	-	0
-	-	-	-
-	-	-	0
-	-	-	1
-	-	-	1
-	-	-	0
-	-	-	-
-	-	-	-
-	-	1	0
-	-	-	1
-	-	-	-
-	-	-	1
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	1

<i>Ae. biuncialis</i>					Legjobb BL
Marker	Marker szekvencia	Kapcsoltság csoport (LG)	Kr.	cM	<i>T. aestivum</i> Kr.
1 mab4412	TGCAGCG	CLG1	4M		0 4A
2 mab3898	TGCAGCTT	LG1	4M	1.35	4A
3 mab4102	TGCAGCAT	LG1	4M	7.39	4A
4 mab541	TGCAGCTC	LG1	4M	8.73	4A
5 mab208	TGCAGCTC	LG1	4M	9.4	4A
6 mab1621	TGCAGATT	LG1	4M	12.36	4A
7 mab3245	TGCAGTGTL	LG1	4M	15.54	4A
8 mab3598	TGCAGATGL	LG1	4M	25.36	3A
9 fM2-mab2973	TGCAGCC	CLG1	4M	27.62	4A
10 A-mab1337	TGCAGGCT	LG1	4M	31.26	4A
11 mab3707	TGCAGCTT	LG1	4M	35.6	4A
12 mab187	TGCAGTT	CLG1	4M	44.53	4A
13 mab4426	TGCAGCA	CLG1	4M	46.33	4A
14 mab2301	TGCAGCTC	LG1	4M	46.55	4A
15 mab1439	TGCAGCCT	LG1	4M	48.34	4A
16 mab1712	TGCAGCA	CLG1	4M	48.78	4A
17 mab197	TGCAGGC	ALG1	4M	49.9	4A
18 mab1227	TGCAGCA	CLG1	4M	50.57	4A
19 mab199	TGCAGGT	CLG1	4M	51.94	4A
20 mab4675	TGCAGGA	CLG1	4M	53.54	4A
21 fU1-mab706	TGCAGCA	CLG1	4M	53.76	4A
22 mab1045	TGCAGGA	CLG1	4M	54.21	6A
23 mab898	TGCAGCC	ALG1	4M	55.58	7A
24 fU1-mab716	TGCAGGA	ALG1	4M	57.18	4A
25 fU1-mab825	TGCAGAG	CLG1	4M	58.52	4A
26 mab1462	TGCAGCA	CLG1	4M	58.74	4A
27 mab1566	TGCAGCG	CLG1	4M	58.96	4A
28 mab4223	TGCAGAA	CLG1	4M	59.4	4A
29 mab1161	TGCAGCG	CLG1	4M	60.74	4A
30 mab1318	TGCAGCG	CLG1	4M	62.31	4A
31 mab2441	TGCAGCGT	LG1	4M	62.98	4A
32 fU1-mab679	TGCAGTC	CLG1	4M	63.42	4A
33 mab220	TGCAGTTT	LG1	4M	64.99	5A
34 mab1418	TGCAGCA	ALG1	4M	66.78	4A
35 mab4160	TGCAGGTT	LG1	4M	68.35	4A
36 M12-mab5291	TGCAGGT	CLG1	4M	69.47	4A
37 mab280	TGCAGCTT	LG1	4M	70.36	6A
38 mab1390	TGCAGAG	CLG1	4M	71.03	6A
39 mab3239	TGCAGGTT	LG1	4M	73.52	4A
40 mab4453	TGCAGAC	ALG1	4M	73.74	4A
41 mab2105	TGCAGCA	ALG1	4M	75.54	4A
42 mab3877	TGCAGGG	CLG1	4M	76.66	7A

43 mab4559	TGCAGCCALG1	4M	79.14	4A
44 U123-mab5606	TGCAGCAGLG1	4M	80.48	5A
45 mab213	TGCAGAAALG1	4M	82.05	5A
46 mab1057	TGCAGGATLG1	4M	84.75	5A
47 mab1446	TGCAGTGCLG1	4M	85.19	5A
48 mab1886	TGCAGCCTLG1	4M	93.61	6A
49 fM2-mab2999	TGCAGGTALG1	4M	97.94	5A
50 mab3380	TGCAGGG/LG1	4M	108.14	5A
51 M12-mab5389	TGCAGGACLG1	4M	108.59	5A
52 mab890	TGCAGGCCLG1	4M	109.73	5A
53 mab3599	TGCAGATCLG1	4M	115.25	5A
54 mab214	TGCAGCAALG1	4M	126.85	5A
55 M12-mab4934	TGCAGATCLG1	4M	131.42	5A
56 mab2243	TGCAGTGCLG1	4M	132.99	5A
57 mab4526	TGCAGCATLG1	4M	136.63	5A
58 mab2303	TGCAGCTTLG1	4M	138.01	5A
59 mab204	TGCAGCGCLG1	4M	141.03	5A

.ASTn találat

γ A genom

start	end	e-érték	Azonossági %
-------	-----	---------	--------------

T. aestivum B genom

Kr.	start
-----	-------

5.97E+08	5.97E+08	4.68E-08	89.13	4B	12252838
5.97E+08	5.97E+08	5.45E-13	97.78	4B	12492599
5.96E+08	5.96E+08	1.43E-14	97.92	4B	13416601
5.96E+08	5.96E+08	4.02E-06	96.88	4B	14001018
5.96E+08	5.96E+08	1.33E-18	88.00	4B	14080836
5.95E+08	5.95E+08	3.32E-05	79.66	5B	4.07E+08
5.94E+08	5.94E+08	3.56E-05	96.67	4B	16502332
6.83E+08	6.83E+08	0.22	100.00	1B	6.6E+08
5.93E+08	5.93E+08	2.75E-27	100.00	4B	20002080
5.91E+08	5.91E+08	9.93E-13	88.33	4B	21194914
5.86E+08	5.86E+08	4.97E-24	98.49	4B	25813224
5.84E+08	5.84E+08	2.74E-19	98.25	4B	27902128
5.8E+08	5.8E+08	1.17E-25	98.55	4B	34025457
5.78E+08	5.78E+08	6.06E-23	95.65	4B	37173409
5.77E+08	5.77E+08	9.6E-08	86.54	4B	38755777
5.77E+08	5.77E+08	0.026	90.32	4B	38786243
5.76E+08	5.76E+08	1.42E-24	97.10	4B	39310397
5.76E+08	5.76E+08	1.42E-24	97.10	4B	40234398
5.75E+08	5.75E+08	6.06E-23	95.65	4B	41552440
5.7E+08	5.7E+08	3.14E-20	95.31	4B	47044445
5.65E+08	5.65E+08	0.1	77.08	4B	54350612
10955020	10955085	1.85E-10	83.33	1B	3.48E+08
6.72E+08	6.72E+08	3.6	100.00		
5.08E+08	5.08E+08	1.96E-14	92.73	4B	1.1E+08
1.78E+08	1.78E+08	0.000434	89.19	4B	3.77E+08
93918656	93918718	3.91E-12	88.89	4B	4.56E+08
75358667	75358735	6.06E-23	95.65	4B	4.84E+08
59481697	59481763	1.42E-24	98.51	4B	4.98E+08
41919694	41919762	7.38E-22	94.20	4B	5.19E+08
32647671	32647739	1.42E-24	97.10	4B	5.3E+08
36612444	36612512	7.38E-22	94.20	4B	5.36E+08
8203342	8203388	5.77E-13	95.75	5B	5.29E+08
9210215	9210267	8.21E-19	100.00	1B	2.01E+08
6633744	6633801	1.91E-21	100.00	4B	5.78E+08
4872253	4872317	4.66E-18	92.31	4B	5.82E+08
3370475	3370543	1.42E-24	97.10	4B	5.86E+08
15874981	15875049	1.03E-13	85.51	1B	6.4E+08
2.3E+08	2.3E+08	0.003	92.86	7B	1E+08
6.82E+08	6.82E+08	1.91E-11	97.62	4B	6E+08
6.8E+08	6.8E+08	2.94E-13	88.53	4B	5.96E+08
6.84E+08	6.84E+08	8.99E-21	91.78	4B	6.02E+08
61028358	61028385	0.25	89.29	1B	4.94E+08

6.85E+08	6.85E+08	1.17E-25	98.55	4B	6.04E+08
6.61E+08	6.61E+08	3.14E-20	92.75	4B	6.11E+08
6.65E+08	6.65E+08	7.38E-22	94.20	4B	6.16E+08
6.66E+08	6.66E+08	1.17E-25	98.55	4B	6.18E+08
6.66E+08	6.66E+08	7.38E-22	94.20	4B	6.18E+08
5.04E+08	5.04E+08	2.94E-14	86.77	5B	6.42E+08
6.7E+08	6.7E+08	3.43E-19	93.75	4B	6.26E+08
6.72E+08	6.72E+08	2.32E-10	95.24	4B	6.3E+08
6.72E+08	6.72E+08	1.74E-23	97.02	4B	6.3E+08
6.74E+08	6.74E+08	4.08E-25	98.53	4B	6.34E+08
6.77E+08	6.77E+08	4.3E-08	100.00	4B	6.38E+08
6.8E+08	6.8E+08	2.94E-14	88.73	4B	6.41E+08
6.81E+08	6.81E+08	1.17E-25	98.55	4B	6.43E+08
6.83E+08	6.83E+08	7.38E-22	95.65	4B	6.45E+08
6.85E+08	6.85E+08	1.17E-11	88.33	4B	6.46E+08
6.85E+08	6.85E+08	3.82E-19	91.30	1B	2.48E+08
6.85E+08	6.85E+08	6.06E-23	95.65	7B	6089613

end	e-érték	Azonossági %	<i>T. aestivum</i> D genom Kr.	start	end
12252880	7.78E-12	97.67	4D	6970656	6970701
12492642	2.29E-11	95.46	4D	7035595	7035639
13416648	7.78E-12	93.75	4D	7643392	7643439
14001049	4.22E-06	96.88	4D	7797267	7797298
14080903	2.22E-22	95.59	4D	7868391	7868465
4.07E+08	9.3	85.71	4D	8676430	8676471
16502356	0.000456	100.00	4D	8816872	8816901
6.6E+08	2.9	91.30	2D	1.23E+08	1.23E+08
20002148	7.74E-22	94.20	4D	10641591	10641647
21194973	4.73E-17	93.33	4D	11471867	11471926
25813289	2.7E-21	95.46	4D	15326209	15326274
27902184	6.77E-21	100.00	4D	16147127	16147183
34025525	1.5E-24	97.10	4D	22018054	22018122
37173477	4.01E-19	91.30	4D	25193438	25193506
38755844	1.15E-19	92.65	4D	26241436	26241503
38786305	4.29E-06	79.41	4D	26245473	26245511
39310465	3.29E-20	92.75	4D	26933808	26933876
40234466	1.5E-24	97.10	4D	27561294	27561362
41552508	6.36E-23	95.65	4D	29021298	29021366
47044501	4.89E-18	96.49	4D	32416872	32416936
54350648	0.003	86.49	4D	37263430	37263467
3.48E+08	1.95E-10	83.33	4D	87727973	87728041
1.1E+08	3.97E-17	96.36	4D	78794228	78794282
3.77E+08	0.000456	88.57	4D	3.02E+08	3.02E+08
4.56E+08	2.36E-21	96.92	4D	3.7E+08	3.7E+08
4.84E+08	6.36E-23	95.65	4D	3.94E+08	3.94E+08
4.98E+08	6.36E-23	98.44	4D	4.02E+08	4.02E+08
5.19E+08	7.74E-22	94.20	4D	4.23E+08	4.23E+08
5.3E+08	6.36E-23	95.65	4D	4.31E+08	4.31E+08
5.36E+08	6.36E-23	95.65	4D	4.35E+08	4.35E+08
5.29E+08	6.5	100.00	4D	4.6E+08	4.6E+08
2.01E+08	1.28E-16	98.08	1D	1.65E+08	1.65E+08
5.78E+08	1.55E-16	94.83	4D	4.63E+08	4.63E+08
5.82E+08	5.58E-11	95.46	4D	4.66E+08	4.66E+08
5.86E+08	4.01E-19	92.54	4D	4.68E+08	4.68E+08
6.4E+08	0.000182	78.33	6D	14721148	14721216
1E+08	0.01	96.00	5D	23119244	23119264
6E+08	4.71E-13	100.00	4D	4.75E+08	4.75E+08
5.96E+08	0.00015	86.36			
6.02E+08	6.36E-23	95.65	4D	4.77E+08	4.77E+08
4.94E+08	3.2	91.30	4D	4.77E+08	4.77E+08

6.04E+08	1.23E-25	98.55	4D	4.78E+08	4.78E+08
6.11E+08	2.37E-09	80.88	4D	4.82E+08	4.82E+08
6.16E+08	6.36E-23	95.65	4D	4.84E+08	4.84E+08
6.18E+08	1.5E-24	97.10	4D	4.85E+08	4.85E+08
6.18E+08	4.89E-18	95.00	4D	4.85E+08	4.85E+08
6.42E+08	9.43E-21	95.39	4D	4.86E+08	4.86E+08
6.26E+08	5.19E-17	96.36	4D	4.89E+08	4.89E+08
6.3E+08	1.04E-08	92.86	4D	4.9E+08	4.9E+08
6.3E+08	6.36E-23	95.65	4D	4.9E+08	4.9E+08
6.34E+08	2.22E-22	95.59	4D	4.95E+08	4.95E+08
6.38E+08	4.51E-08	100.00	4D	4.97E+08	4.97E+08
6.41E+08	4.01E-19	91.43	4D	4.99E+08	4.99E+08
6.43E+08	1.15E-19	95.24	4D	5E+08	5E+08
6.45E+08	6.36E-23	95.65	4D	5.01E+08	5.01E+08
6.46E+08	1.6E-16	93.22	4D	5.02E+08	5.02E+08
2.48E+08	0.33	100.00	4D	5.02E+08	5.02E+08
6089644	0.008	90.63	4D	5.02E+08	5.02E+08

DARtseq markerekkel detektált SNP-k alélvi

e-érték	Azonossági %	1M	1U	2M	2U
2.04E-05	84.78	0	-	-	-
4.36E-13	97.78	-	-	-	-
2.84E-16	100.00	0	-	-	-
3.22E-06	96.88	1	-	1	-
8.99E-20	89.33	-	-	-	-
2.66E-05	84.78	0	-	0	-
6.71E-07	100.00	0	-	0	-
2.2	95.24	1	-	1	-
6.47E-09	78.26	0	-	-	-
2.96E-18	95.00	-	-	-	-
9.6E-26	100.00	0	-	0	-
5.17E-21	100.00	0	-	2	-
2.26E-27	100.00	0	-	-	-
6.06E-22	94.20	-	-	-	-
1.1E-18	91.18	0	-	0	-
1.17E-05	90.24	0	-	-	-
6.06E-22	94.20	-	-	-	-
1.17E-24	97.10	0	-	-	-
1.17E-24	97.10	1	-	-	-
1.42E-23	98.46	0	-	0	-
1.33E-05	89.47	1	-	-	-
4.36E-11	82.61	1	-	-	-
		-	-	1	-
3.03E-17	96.36	1	-	1	-
0.052	100.00	1	-	1	-
2.57E-13	97.92	1	-	1	-
6.06E-22	96.88	1	-	1	-
7.88E-27	100.00	0	-	-	-
1.17E-24	98.51	1	-	-	-
9.6E-26	98.55	1	-	1	-
4.97E-23	95.65	0	-	0	-
6.77E-05	96.67	1	-	1	-
1.45E-14	94.34	2	-	0	-
1.53E-21	100.00	1	-	1	-
2.94E-13	87.50	0	-	0	-
1.17E-24	97.10	0	-	0	-
1.33E-17	89.86	-	-	-	-
0.032	100.00	-	-	-	-
3.59E-13	100.00	0	-	0	-
		0	-	0	-
4.97E-23	95.65	1	-	-	-
0.005	92.86	-	-	-	-

9.6E-26	98.55
7.38E-21	95.39
2.58E-20	92.75
9.6E-26	98.55
3.58E-12	92.16
1.17E-24	97.10
2.75E-19	93.75
1.53E-11	97.62
7.38E-21	94.03
3.35E-25	98.53
3.44E-08	100.00
2.75E-26	100.00
4.66E-17	89.86
8.99E-20	91.55
1.93E-20	98.31
1.33E-17	89.86
9.6E-26	98.55

-	-	-	-
0	-	0	-
1	-	-	-
1	-	-	-
0	-	-	-
-	-	-	-
0	-	-	-
0	-	0	-
-	-	-	-
1	-	1	-
0	-	0	-
0	-	-	-
-	-	-	-
0	-	0	-
-	-	-	-
1	-	1	-
0	-	0	-

-	-	-	-	-	-	-	-
-	-	0	-	-	-	-	-
-	-	1	-	-	-	-	-
1	-	1	-	-	-	-	-
0	-	0	-	0	-	-	-
-	-	-	-	-	-	-	-
0	-	0	-	-	-	-	-
0	-	0	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	1	-	1	-	1	-
0	-	0	-	0	-	-	-
0	-	0	-	0	-	-	-
-	-	-	-	-	-	-	-
-	-	0	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	1	-	-	-	0	-
-	-	0	-	-	-	-	-

Teljes genomi DNS

7M

7U

Ae. comosa (MM)

Ae. umbellulata (UU)

-	-	0	-
-	-	-	-
-	-	0	-
-	-	1	-
-	-	-	-
-	-	0	-
0	-	0	-
-	-	1	-
-	-	0	-
-	-	-	-
-	-	0	-
0	-	0	-
-	-	0	-
-	-	-	-
-	-	0	-
-	-	0	-
-	-	-	-
-	-	0	-
-	-	1	-
-	-	0	-
-	-	1	-
-	-	1	-
-	-	-	-
-	-	1	-
-	-	1	-
-	-	1	-
-	-	1	-
-	-	0	-
-	-	1	-
-	-	1	-
-	-	0	-
-	-	1	-
-	-	0	-
1	-	1	-
-	-	0	-
-	-	0	-
-	-	-	-
-	-	-	-
-	-	0	-
0	-	0	-
-	-	1	-
-	-	-	-

-	-	-	-
-	-	0	-
-	-	1	-
-	-	1	-
0	-	0	-
-	-	-	-
0	-	0	-
-	-	0	-
-	-	-	-
1	-	1	-
0	-	0	-
-	-	0	-
-	-	-	-
-	-	0	-
-	-	-	-
-	-	1	-
-	-	0	-

<i>Ae. biuncialis</i>				
Marker	Marker szekvencia	Kapcsoltsági csoport (LG)	Kr.	cM
1 mab1011	TGCAGAACGAT	LG11	4U	0
2 mab421	TGCAGCCTCCA	LG11	4U	3.41
3 M12-mab4936	TGCAGGTCAAAL	LG11	4U	3.63
4 mab1430	TGCAGCCGTG	LG11	4U	7.03
5 mab473	TGCAGAGTCTC	LG11	4U	14.25
6 fM2-mab3042	TGCAGAATCGT	LG11	4U	20.98
7 mab958	TGCAGGAACCT	LG11	4U	25.57
8 M12-mab4842	TGCAGCAGTG	LG11	4U	26.91
9 mab2307	TGCAGTCGAAG	LG11	4U	29.69
10 fM2-mab2939	TGCAGGAGTTC	LG11	4U	32.46
11 M12-mab5005	TGCAGAGATAT	LG11	4U	33.83
12 fM2-mab3051	TGCAGGATCTG	LG11	4U	46.19
13 mab4832	TGCAGCCGTG	LG11	4U	48.44
14 M12-mab5268	TGCAGCCGCTG	LG11	4U	49.11
15 mab217	TGCAGCAAGAG	LG11	4U	66.4
16 mab1796	TGCAGCGAGTC	LG11	4U	69.38
17 mab2074	TGCAGCGACTA	LG11	4U	70.28
18 fU1-G2-mab776	TGCAGTCCTCG	LG11	4U	71.4
19 fU1-mab816	TGCAGAGCATT	LG11	4U	82.69
20 mab3904	TGCAGCGGCC	LG11	4U	84.71
21 mab1081	TGCAGCTTCTG	LG11	4U	85.15
22 mab2343	TGCAGCATGCA	LG11	4U	86.27
23 mab1177	TGCAGCCGTTG	LG11	4U	88.98
24 mab4238	TGCAGCACCTG	LG11	4U	89.87
25 mab3069	TGCAGGAAGTC	LG11	4U	90.09
26 mab1779	TGCAGCCGCTC	LG11	4U	90.53
27 mab4713	TGCAGCGGCA	LG11	4U	92.1
28 mab1893	TGCAGCAGCAAL	LG11	4U	92.32
29 mab4212	TGCAGACGAGT	LG11	4U	93.66
30 mab3097	TGCAGCAACTG	LG11	4U	94.55
31 mab4241	TGCAGCACGCC	LG11	4U	96.35
32 M12-mab5306	TGCAGTGGACCL	LG11	4U	97.69
33 M12-mab4914	TGCAGGGGGC	LG11	4U	98.13
34 mab4373	TGCAGGTGATG	LG11	4U	103.65
35 mab4779	TGCAGCACCGC	LG11	4U	104.32
36 M12-mab4872	TGCAGGCTCGC	LG11	4U	105.21
37 mab4575	TGCAGGACAGC	LG11	4U	129.15
38 mab189	TGCAGGTTTTA	LG11	4U	131.87
39 mab3434	TGCAGTGAAC	LG11	4U	135.27
40 mab2003	TGCAGTTGGAG	LG11	4U	142.97
41 G-mab358	TGCAGTGGCTC	LG11	4U	151.75
42 mab1038	TGCAGCGGTCG	LG11	4U	155.18
43 fU1-mab674	TGCAGCGAGG	LG11	4U	158.13

Legjobb BLASTn találat

T. aestivum A genom

Kr.	start	end	e-érték	Azonossági %	<i>T. aestivum</i> Kr.
6A	5.96E+08	5.96E+08	0.002	88.89	6B
6A	5.94E+08	5.94E+08	2.4E-07	94.44	6B
6A	5.94E+08	5.94E+08	2.75E-08	90.91	6B
6A	5.93E+08	5.93E+08	1.42E-24	97.10	6B
6A	5.92E+08	5.92E+08	2.56E-06	94.12	6B
7A	66753355	66753404	1.3E-15	98.00	5B
6A	5.86E+08	5.86E+08	3.67E-15	100.00	2B
6A	5.85E+08	5.85E+08	1.25E-12	97.78	6B
2A	6.01E+08	6.01E+08	3.8	95.46	6B
6A	5.85E+08	5.85E+08	1.42E-24	97.10	6B
6A	5.83E+08	5.83E+08	2.4E-08	82.76	6B
6A	5.75E+08	5.75E+08	1.42E-24	97.10	6B
1A	3.86E+08	3.86E+08	2.41E-15	87.32	7B
6A	5.74E+08	5.74E+08	3.14E-20	93.94	6B
5A	95056338	95056404	1.42E-24	98.51	7B
6A	5.52E+08	5.52E+08	2.26E-09	81.54	6B
7A	1.44E+08	1.44E+08	2.26E-09	87.04	5B
6A	5.35E+08	5.35E+08	0.000163	96.43	6B
6A	5.05E+08	5.05E+08	1.27E-09	88.24	6B
6A	4.96E+08	4.96E+08	7.38E-22	98.39	6B
6A	1.28E+08	1.28E+08	0.29	86.21	6B
6A	4.62E+08	4.62E+08	3.58E-13	84.06	6B
2A	28833454	28833522	1.17E-06	78.26	1B
6A	4.42E+08	4.42E+08	9.92E-19	96.55	6B
6A	4.28E+08	4.28E+08	6.62E-22	96.88	6B
6A	4.32E+08	4.32E+08	6.06E-23	96.97	6B
6A	1.17E+08	1.17E+08	3.82E-19	95.16	6B
2A	7.2E+08	7.2E+08	3.82E-19	92.54	5B
4A	1.34E+08	1.34E+08	2.24E-12	93.88	4B
6A	1.12E+08	1.12E+08	8.7E-20	96.67	3B
4A	71170056	71170102	3.82E-10	88.46	4B
4A	59374300	59374365	1.09E-19	94.03	4B
4A	47709355	47709420	2.41E-15	89.39	4B
4A	36175532	36175599	4.97E-24	97.06	4B
5A	4.5E+08	4.5E+08	3.8	95.46	4B
4A	31169589	31169649	2.57E-20	96.72	4B
4A	6.38E+08	6.38E+08	6.67E-09	83.33	5B
4A	6.38E+08	6.38E+08	7.38E-22	95.65	5B
4A	6.34E+08	6.34E+08	1.45E-12	100.00	2B
4A	6.29E+08	6.29E+08	0.000174	77.42	5B
2A	4.31E+08	4.31E+08	0.064	89.66	5B
4A	6.28E+08	6.28E+08	3.14E-20	92.75	5B
4A	6.26E+08	6.26E+08	0.000217	96.43	5B

1 B genom				<i>T. aestivum</i> D genom	
start	end	e-érték	Azonossági %	Kr.	start
6.83E+08	6.83E+08	2.59E-08	94.74	6D	4.5E+08
6.77E+08	6.77E+08	4.86E-10	100.00	6D	4.48E+08
6.79E+08	6.79E+08	3.76E-13	85.51	6D	4.48E+08
6.75E+08	6.75E+08	7.74E-22	94.20	6D	4.47E+08
6.71E+08	6.71E+08	2.69E-06	94.12	6D	4.46E+08
3.04E+08	3.04E+08	0.62	92.00	7D	1.91E+08
7.05E+08	7.05E+08	0.012	80.44	7D	80713259
6.61E+08	6.61E+08	4.58E-12	83.33	6D	4.37E+08
6.61E+08	6.61E+08	1.4E-18	91.18	6D	4.37E+08
6.6E+08	6.6E+08	1.23E-25	98.55	6D	4.36E+08
60750354	60750378	1	92.00	6D	4.36E+08
6.47E+08	6.47E+08	6.36E-23	95.65	6D	28411122
71368375	71368445	2.53E-15	87.32	6D	82943479
6.46E+08	6.46E+08	1.71E-17	89.86	6D	4.28E+08
2.64E+08	2.64E+08	4.01E-19	92.54	5D	2.76E+08
6.09E+08	6.09E+08	5.58E-11	87.72	6D	4.05E+08
5.86E+08	5.86E+08	1.6E-11	83.82	6D	3.96E+08
5.8E+08	5.8E+08	0.000171	96.43	6D	3.88E+08
5.49E+08	5.49E+08	2.12E-13	94.12	6D	3.64E+08
5.32E+08	5.32E+08	1.5E-24	97.10	6D	3.48E+08
4.06E+08	4.06E+08	3.8	100.00	2D	5.41E+08
4.98E+08	4.98E+08	7.74E-22	94.20	6D	3.25E+08
37624171	37624239	2.89E-08	79.71	7D	1.71E+08
4.74E+08	4.74E+08	1.04E-18	96.55	6D	3.06E+08
4.57E+08	4.57E+08	3.28E-13	87.50	6D	2.93E+08
4.53E+08	4.53E+08	6.36E-23	96.97	6D	2.91E+08
1.82E+08	1.82E+08	5.22E-24	98.49	6D	97557605
1.25E+08	1.25E+08	1.23E-25	98.55	1D	4.64E+08
4.17E+08	4.17E+08	1.22E-09	89.80	4D	3.38E+08
1.52E+08	1.52E+08	9.14E-20	96.67	5D	53811601
4.79E+08	4.79E+08	4.01E-10	88.46	4D	3.89E+08
4.97E+08	4.97E+08	1.08E-13	86.77	4D	4.02E+08
5.13E+08	5.13E+08	6.36E-23	95.65	4D	4.17E+08
5.34E+08	5.34E+08	6.36E-23	95.65	4D	4.35E+08
4.96E+08	4.96E+08	1.2	86.67	7D	35009104
5.39E+08	5.39E+08	2.22E-21	98.36	4D	4.37E+08
6.74E+08	6.74E+08	7E-09	83.33	5D	5.34E+08
6.74E+08	6.74E+08	7.74E-22	95.65	5D	5.34E+08
2.45E+08	2.45E+08	6.49E-11	97.56	2D	1.81E+08
6.81E+08	6.81E+08	1.5E-24	97.10	5D	5.4E+08
6.81E+08	6.81E+08	4.86E-10	100.00	5D	5.39E+08
6.83E+08	6.83E+08	7.74E-22	94.20	5D	5.4E+08
6.82E+08	6.82E+08	0.01	90.00	5D	5.43E+08

DArTseq markerekkel detektált S

end	e-érték	Azonossági %	1M	1U	2M
4.5E+08	2.4E-07	94.44	-	-	-
4.48E+08	1.46E-09	100.00	-	-	-
4.48E+08	4.97E-23	95.65	-	-	-
4.47E+08	3.14E-19	91.30	-	-	-
4.46E+08	2.05E-06	94.12	-	-	-
1.91E+08	5.8	91.30	-	0	-
80713304	4.32E-07	86.96	-	-	-
4.37E+08	2.26E-08	77.03	-	-	-
4.37E+08	1.52E-10	87.50	-	-	-
4.36E+08	1.17E-24	97.10	-	-	-
4.36E+08	5.88E-15	97.96	-	-	-
28411151	0.9	90.00	-	-	-
82943547	3.82E-18	91.30	-	-	-
4.28E+08	3.14E-19	98.25	-	-	-
2.76E+08	3.1	77.55	-	-	-
4.05E+08	2.94E-13	89.66	-	-	-
3.96E+08	1.17E-24	97.10	-	-	-
3.88E+08	0.002	92.86	-	-	-
3.64E+08	8.37E-11	90.20	-	-	-
3.48E+08	9.6E-26	98.55	-	-	-
5.41E+08	0.000455	93.10	-	-	-
3.25E+08	2.58E-20	92.75	-	-	-
1.71E+08	3.58E-12	85.71	-	-	-
3.06E+08	3.38E-17	100.00	-	-	-
2.93E+08	5.3E-22	96.88	-	-	-
2.91E+08	2.58E-20	93.94	-	-	-
97557670	9.6E-26	100.00	-	-	-
4.64E+08	0.074	90.63	-	-	-
3.38E+08	4.42E-14	95.92	-	-	-
53811655	1.87E-14	92.73	-	-	-
3.89E+08	1.93E-06	85.71	-	-	-
4.02E+08	6.47E-09	95.24	-	-	-
4.17E+08	6.06E-22	94.20	-	-	-
4.35E+08	1.17E-24	97.10	-	-	-
35009136	3.1	85.29	-	-	-
4.37E+08	2.06E-20	96.72	-	0	-
5.34E+08	9.04E-19	96.55	-	-	-
5.34E+08	1.17E-24	98.55	-	-	-
1.81E+08	3.6	100.00	-	-	0
5.4E+08	3.14E-19	93.75	-	-	-
5.39E+08	4.17E-10	100.00	0	-	0
5.4E+08	2.26E-27	100.00	-	-	0
5.43E+08	1.43E-05	96.67	-	-	-

NP-k alélváltozatai

Izolált kromoszómák DNS mintái

2U 3M 3U 4M 4U 5M 5U 6M

1	0	1	-	1	-	-	-
0	-	0	-	0	-	-	-
0	-	-	-	0	-	-	-
0	-	-	-	0	-	0	-
-	-	-	-	-	-	-	-
0	-	0	-	0	-	-	-
0	-	0	-	0	-	-	-
1	-	1	-	1	-	-	-
0	-	-	-	0	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
0	-	0	-	0	-	0	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
0	-	-	-	0	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
1	-	-	-	1	-	-	-
0	-	-	-	0	-	-	-
1	-	1	-	1	-	-	-
0	-	-	-	0	-	-	-
0	-	0	-	0	-	-	-
-	-	-	-	-	-	-	-
0	-	0	-	0	-	-	-
0	-	0	-	0	-	-	-
1	-	-	-	1	-	-	-
0	-	0	-	0	-	-	-
-	-	-	-	-	-	-	-
1	-	-	-	1	-	-	-
0	-	-	-	0	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
0	-	-	-	0	-	-	-
0	-	0	-	0	-	-	-
0	-	-	-	0	-	-	-
0	-	0	-	0	-	-	-
0	-	-	-	0	-	-	-
0	-	0	-	0	-	-	-
0	-	-	-	0	-	-	-
0	-	-	-	0	-	-	-
0	-	-	-	0	-	-	-
0	0	-	0	0	0	-	-
1	-	-	-	1	0	-	-
1	-	1	-	1	-	-	-

Teljes genomi DNS

6U

7M

7U

Ae. comosa
(MM)

Ae. umbellulata (UU)

-	-	1	-	1
-	-	-	-	0
-	-	-	-	2
-	-	-	-	0
-	-	-	-	-
0	-	-	-	0
-	-	-	-	0
-	-	1	-	1
-	-	-	-	0
-	-	-	-	-
-	-	-	-	-
0	-	-	-	0
-	-	-	-	-
-	-	-	-	-
-	-	-	-	0
-	-	-	-	-
-	-	-	-	-
-	-	-	-	1
-	-	0	-	0
-	-	-	-	1
-	-	-	-	0
-	-	-	-	0
-	-	-	-	-
-	-	-	-	0
-	-	-	-	0
-	-	-	-	1
-	-	-	-	0
-	-	-	-	-
-	-	1	-	1
0	-	0	-	0
-	-	-	-	-
-	-	-	-	-
-	-	0	-	0
0	-	0	-	0
-	-	0	-	0
0	-	-	-	0
-	-	-	-	0
-	-	-	-	2
0	-	-	-	0
-	-	0	-	0
0	-	-	0	0
-	-	-	0	1
-	-	-	-	1

Ae. biuncialis

Marker	Marker szekvencia	Kapcsoltsági csoport (LG)	Kr.	cM
1 mab996	TGCAGTTTTA	LG14	5M	0
2 mab249	TGCAGGAGA/	LG14	5M	1.8
3 mab1109	TGCAGAACG/	LG14	5M	2.92
4 mab4482	TGCAGGGCTA/	LG14	5M	4.26
5 mab1278	TGCAGACGG(	LG14	5M	6.06
6 mab4221	TGCAGCTAGCL	LG14	5M	7.4
7 mab1873	TGCAGTTCTG	LG14	5M	8.52
8 mab4691	TGCAGCTTTA	LG14	5M	11.49
9 mab1776	TGCAGAGTCAL	LG14	5M	12.84
10 mab1983	TGCAGGTACGL	LG14	5M	15.34
11 fM2-mab2929	TGCAGGCTG(	LG14	5M	18.28
12 U123-mab5507	TGCAGAGGCC(	LG14	5M	18.5
13 M12-mab4988	TGCAGCGCG(	LG14	5M	19.63
14 fU1-mab663	TGCAGATCCGL	LG14	5M	21.65
15 mab4379	TGCAGCTTGT	LG14	5M	23.9
16 mab590	TGCAGGCCA(	LG14	5M	24.12
17 mab403	TGCAGGTGAT	LG14	5M	25.46
18 fM2-mab3002	TGCAGCGAC(	LG14	5M	26.13
19 fM2-mab3027	TGCAGCCCC(	LG14	5M	27.25
20 mab1989	TGCAGGCGA(	LG14	5M	28.38
21 mab3199	TGCAGGGCG(	LG14	5M	31.59
22 mab2487	TGCAGCTGCT	LG14	5M	31.81
23 mab4044	TGCAGGTACGL	LG14	5M	36.14
24 fU1-mab699	TGCAGCAGA(	LG14	5M	37.94
25 mab4742	TGCAGCTGAT	LG14	5M	40.42
26 mab3416	TGCAGCTGAC	LG14	5M	41.54
27 mab3461	TGCAGAGTCC	LG14	5M	43.79
28 fU1-mab765	TGCAGGCCG(	LG14	5M	44.91
29 fU1-mab662	TGCAGCATG(	LG14	5M	49.95
30 mab4155	TGCAGCTGCT	LG14	5M	51.52
31 fU1-mab682	TGCAGGGCA(	LG14	5M	55.16
32 mab963	TGCAGAACCA/	LG14	5M	56.96
33 mab4839	TGCAGTCACAL	LG14	5M	62
34 mab3775	TGCAGCAGG	LG14	5M	65.86
35 M12-mab5087	TGCAGCGCG	LG14	5M	68.12
36 mab2018	TGCAGAGCA/	LG14	5M	70.83
37 M12-mab5075	TGCAGCCATAL	LG14	5M	75.65
38 mab2330	TGCAGATGAG	LG14	5M	81.2
39 fU1-mab781	TGCAGCATCT	LG14	5M	82.77
40 M12-mab5191	TGCAGAAAG(	LG14	5M	84.11
41 U123-mab5679	TGCAGGCGT(	LG14	5M	90.64
42 U123-mab5545	TGCAGTGCA(	LG14	5M	93.38
43 mab3806	TGCAGCTGTAL	LG14	5M	96.09
44 G1-mab3950	TGCAGGTGCC(	LG14	5M	97.89

45 fM2-mab2853	TGCAGGGGC(LG14	5M	101.99
46 mab254	TGCAGGGCA(LG14	5M	103.34
47 mab1184	TGCAGGTAGC(LG14	5M	104.47
48 mab4571	TGCAGGATG(LG14	5M	105.6
49 mab4079	TGCAGCACA(LG14	5M	107.4
50 mab1827	TGCAGCTTTA(LG14	5M	110.34
51 mab1055	TGCAGGAGG(LG14	5M	117.34
52 mab4147	TGCAGTGGAC(LG14	5M	119.83
53 mab4313	TGCAGCCCC(LG14	5M	121.41
54 mab4260	TGCAGGCAG(LG14	5M	125.28
55 mab2094	TGCAGGCGG(LG14	5M	127.53
56 mab4579	TGCAGACCAC(LG14	5M	132.1
57 G5-mab244	TGCAGAACG(LG14	5M	132.32
58 mab3368	TGCAGGTACALG14	5M	134.34
59 mab1279	TGCAGAATAC(LG14	5M	137.53
60 mab2308	TGCAGATGAT(LG14	5M	139.79
61 mab621	TGCAGCCCG(LG14	5M	144.6
62 M12-mab4919	TGCAGCACAT(LG14	5M	146.4
63 mab1393	TGCAGCAGC(LG14	5M	147.97
64 mab3487	TGCAGCATG(LG14	5M	150.45
65 M12-mab4904	TGCAGTGCG(LG14	5M	150.89
66 mab4401	TGCAGCTTGALG14	5M	154.06
67 mab50	TGCAGGTAGC(LG14	5M	155.18
68 M12-mab4940	TGCAGAGGA(LG14	5M	155.4
69 mab4467	TGCAGTGCAT(LG14	5M	162.38
70 mab2165	TGCAGAATTC(LG14	5M	168.38
71 fU1-mab671	TGCAGCTCGC(LG14	5M	168.82
72 mab4059	TGCAGTGCTC(LG14	5M	170.39
73 U123-mab5568	TGCAGAGGT(LG14	5M	176.14
74 mab3407	TGCAGGGTCT(LG14	5M	177.94
75 M12-mab4870	TGCAGTCTAA(LG14	5M	180.2
76 mab3839	TGCAGCAACC(LG14	5M	182.01
77 fM2-mab3019	TGCAGACGG(LG14	5M	184.5
78 mab3292	TGCAGCTGCALG14	5M	196.52
79 fM2-mab3020	TGCAGGAGG(LG14	5M	201.1
80 U123-mab5728	TGCAGCGCA(LG14	5M	203.12
81 mab4499	TGCAGTCCGALG14	5M	204.24
82 mab3750	TGCAGATATC(LG14	5M	206.26
83 mab2352	TGCAGGCTG(LG14	5M	210.89
84 mab4469	TGCAGCTGG(LG14	5M	215.05
85 mab3762	TGCAGACTGC(LG14	5M	216.39
86 G2-mab3535	TGCAGATGAALG14	5M	218.88
87 G1-mab3535	TGCAGATGAALG14	5M	220.69
88 mab1751	TGCAGAGGG(LG14	5M	225.49

Legjobb BLASTn találat

T. aestivum A genom*T. aestivum*

Kr.	start	end	e-érték	Azonossági %	Kr.
5A	10899058	10899098	1.43E-10	97.56	5B
5A	14299439	14299507	7.38E-22	94.20	7B
5A	17527780	17527813	1.91E-08	100.00	5B
5A	19067117	19067179	5.67E-17	92.06	4B
3A	7157854	7157922	1.98E-16	88.41	7B
5A	22724018	22724084	1.74E-23	97.02	4B
5A	23914969	23915028	4.66E-18	95.00	5B
5A	29183608	29183662	5.67E-17	96.36	5B
7A	12072378	12072437	1.92E-15	91.67	1B
5A	36330853	36330921	1.42E-24	97.10	5B
6A	5.55E+08	5.55E+08	4.21E-14	100.00	7B
4A	2.95E+08	2.95E+08	6.06E-23	95.65	5B
5A	4.34E+08	4.34E+08	4.98E-05	73.33	5B
3A	2.58E+08	2.58E+08	0.59	89.29	5B
5A	4.48E+08	4.48E+08	1.09E-19	92.86	5B
5A	4.49E+08	4.49E+08	3.67E-15	100.00	5B
5A	4.55E+08	4.55E+08	1.2E-07	100.00	5B
5A	4.55E+08	4.55E+08	4.32E-15	97.96	5B
5A	4.62E+08	4.62E+08	3.14E-19	95.24	5B
7A	5.46E+08	5.46E+08	0.31	83.33	4B
2A	6.03E+08	6.03E+08	1	88.46	2B
5A	4.72E+08	4.72E+08	4.97E-24	98.49	5B
5A	4.8E+08	4.8E+08	6.62E-22	96.88	5B
5A	4.9E+08	4.9E+08	1.47E-06	92.11	5B
5A	5.24E+08	5.24E+08	3.82E-19	92.54	5B
7A	3.26E+08	3.26E+08	3.6	95.00	6B
5A	5.35E+08	5.35E+08	0.005	87.88	5B
5A	5.35E+08	5.35E+08	1.5E-11	100.00	5B
5A	5.39E+08	5.39E+08	1.25E-17	94.92	5B
6A	6.1E+08	6.1E+08	0.7	86.67	2B
5A	5.51E+08	5.51E+08	3.03E-09	93.02	5B
5A	5.53E+08	5.53E+08	1.76E-08	86.54	5B
					7B
5A	5.57E+08	5.57E+08	4.21E-14	100.00	5B
5A	5.6E+08	5.6E+08	7.88E-09	93.18	5B
5A	5.64E+08	5.64E+08	4.98E-05	93.94	5B
5A	5.68E+08	5.68E+08	2.75E-07	84.62	5B
5A	5.71E+08	5.71E+08	0.000606	87.18	5B
5A	5.73E+08	5.73E+08	5.1E-06	96.77	5B
5A	5.74E+08	5.74E+08	1.56E-13	97.83	5B
5A	5.76E+08	5.76E+08	1.17E-25	98.55	5B
5A	5.78E+08	5.78E+08	4.66E-18	91.05	5B
5A	5.8E+08	5.8E+08	6.05E-14	94.23	5B
1A	5.6E+08	5.6E+08	6.41E-13	95.75	5B

5A	5.91E+08	5.91E+08	3.35E-26	100.00	5B
5A	5.91E+08	5.91E+08	7.38E-22	94.20	5B
5A	5.92E+08	5.92E+08	9.27E-10	93.18	5B
5A	5.93E+08	5.93E+08	0.002	91.18	5B
5A	5.95E+08	5.95E+08	1.62E-17	92.19	5B
5A	5.95E+08	5.95E+08	0.000174	72.46	5B
1A	5.63E+08	5.63E+08	0.011	92.86	7B
5A	6.01E+08	6.01E+08	3.82E-19	91.30	5B
2A	6.49E+08	6.49E+08	0.022	88.57	5B
5A	6.07E+08	6.07E+08	2.34E-14	91.67	5B
5A	6.09E+08	6.09E+08	3.58E-13	89.83	5B
5A	6.14E+08	6.14E+08	3.95E-11	87.72	2B
5A	6.14E+08	6.14E+08	6.06E-23	95.65	5B
5A	6.17E+08	6.17E+08	3.3E-07	92.31	5B
5A	6.19E+08	6.19E+08	5.85E-06	86.36	5B
5A	6.21E+08	6.21E+08	7.38E-22	94.20	5B
5A	6.25E+08	6.25E+08	2.32E-10	95.24	5B
5A	6.24E+08	6.24E+08	0.000606	89.19	4B
5A	6.32E+08	6.32E+08	2.11E-22	95.59	5B
5A	6.32E+08	6.32E+08	0.003	87.18	7B
5A	6.32E+08	6.32E+08	1.33E-18	88.00	5B
3A	7.02E+08	7.02E+08	7.38E-22	94.20	4B
7A	1.39E+08	1.39E+08	2.75E-27	100.00	5B
5A	6.35E+08	6.35E+08	1.42E-24	97.10	5B
7A	2.53E+08	2.53E+08	3.8	91.67	5B
5A	1.46E+08	1.46E+08	0.31	95.83	7B
7A	6.04E+08	6.04E+08	1.3	95.46	3B
5A	6.26E+08	6.26E+08	0.023	84.21	2B
5A	6.53E+08	6.53E+08	0.002	74.03	5B
5A	6.53E+08	6.53E+08	6.91E-15	92.86	5B
5A	6.54E+08	6.54E+08	2.75E-08	93.02	5B
5A	6.61E+08	6.61E+08	0.17	92.31	7B
4A	6.42E+08	6.42E+08	6.06E-23	95.65	5B
4A	6.38E+08	6.38E+08	2.86E-11	90.57	5B
4A	6.29E+08	6.29E+08	3.34E-18	96.49	5B
5A	5.21E+08	5.21E+08	0.31	90.32	5B
4A	6.25E+08	6.25E+08	6.65E-08	81.25	5B
1A	5.7E+08	5.7E+08	5.07E-12	100.00	5B
4A	6.22E+08	6.22E+08	1.09E-19	92.65	5B
4A	6.2E+08	6.2E+08	1.42E-24	97.10	5B
5A	4.24E+08	4.24E+08	3.12E-05	93.75	7B
4A	6.17E+08	6.17E+08	1.93E-13	95.83	5B
4A	6.17E+08	6.17E+08	1.93E-13	95.83	5B
4A	6.14E+08	6.14E+08	2.75E-27	100.00	5B

γ B genom				<i>T. aestivum</i> D genom	
start	end	e-érték	Azonossági %	Kr.	start
13262957	13263015	3.09E-19	96.61	5D	13821176
7.41E+08	7.41E+08	1.01E-07	81.97	7D	6.35E+08
17816183	17816235	5.02E-16	96.23	5D	24322219
5.76E+08	5.76E+08	8.28E-09	89.58	5D	28024010
1.06E+08	1.06E+08	4.01E-19	91.30	3D	1873262
64774995	64775063	5.58E-11	82.61	5D	34051748
26605681	26605744	2.53E-15	89.06	5D	35222970
35149179	35149242	4.58E-12	84.06	5D	40971157
1.07E+08	1.07E+08	3.64E-12	88.14	2D	15788127
45393548	45393616	1.23E-25	98.55	5D	45379005
6.25E+08	6.25E+08	2.29E-11	95.46	7D	5.69E+08
1.05E+08	1.05E+08	1.23E-06	86.96	3D	84386281
3.89E+08	3.89E+08	7.74E-22	94.20	5D	3.33E+08
3.99E+08	3.99E+08	3E-11	91.84	5D	5.48E+08
4.08E+08	4.08E+08	6.36E-23	95.65	5D	3.44E+08
4.1E+08	4.1E+08	2E-12	95.65	5D	3.49E+08
4.18E+08	4.18E+08	1.26E-07	100.00	5D	3.54E+08
4.18E+08	4.18E+08	4.53E-15	97.96	5D	3.54E+08
4.27E+08	4.27E+08	9.43E-20	96.67	5D	3.62E+08
2.01E+08	2.01E+08	1.2	87.18	4D	1.69E+08
5.41E+08	5.41E+08	1.1	88.46	1D	2.75E+08
4.39E+08	4.39E+08	1.82E-23	97.02	5D	3.7E+08
4.56E+08	4.56E+08	3.5E-19	93.75	5D	3.8E+08
4.65E+08	4.65E+08	2.97E-09	97.37	5D	3.87E+08
4.95E+08	4.95E+08	2.7E-21	95.46	5D	4.12E+08
7.14E+08	7.14E+08	3.8	100.00	6D	2.1E+08
5.08E+08	5.08E+08	0.24	84.85	2D	1.03E+08
5.08E+08	5.08E+08	3.46E-07	92.31	5D	4.22E+08
5.14E+08	5.14E+08	2.53E-20	98.31	5D	4.25E+08
4.89E+08	4.89E+08	0.74	100.00	5D	71939458
5.3E+08	5.3E+08	6.14E-12	97.67	5D	4.36E+08
5.33E+08	5.33E+08	3.57E-11	88.89	5D	4.38E+08
5.32E+08	5.32E+08	5.4	95.24		
5.37E+08	5.37E+08	4.42E-14	100.00	5D	4.41E+08
5.4E+08	5.4E+08	4.01E-19	95.16	5D	4.43E+08
5.44E+08	5.44E+08	7.25E-16	90.77	5D	4.46E+08
5.49E+08	5.49E+08	3.76E-12	88.14	5D	4.49E+08
5.53E+08	5.53E+08	2.89E-08	91.30	5D	4.52E+08
5.55E+08	5.55E+08	6.53E-05	93.55	5D	4.54E+08
5.56E+08	5.56E+08	5.35E-07	100.00	5D	4.54E+08
5.6E+08	5.6E+08	1.23E-25	98.55	5D	4.58E+08
5.62E+08	5.62E+08	6.79E-10	93.33	5D	4.59E+08
5.66E+08	5.66E+08	6.35E-14	97.87	5D	4.6E+08
5.69E+08	5.69E+08	5.52E-14	95.92	5D	4.63E+08

5.77E+08	5.77E+08	2.89E-27	100.00	5D	4.7E+08
5.79E+08	5.79E+08	1.23E-25	98.55	5D	4.72E+08
5.8E+08	5.8E+08	2.29E-11	95.46	5D	4.73E+08
5.81E+08	5.81E+08	0.000636	91.43	5D	2.53E+08
5.83E+08	5.83E+08	9.43E-21	94.20	5D	4.75E+08
5.83E+08	5.83E+08	4.29E-06	92.11	5D	4.76E+08
3.24E+08	3.24E+08	1.8	84.38	2D	3.23E+08
5.91E+08	5.91E+08	7.74E-22	94.20	1D	4.9E+08
6.76E+08	6.76E+08	4.55E-24	100.00	5D	4.84E+08
5.97E+08	5.97E+08	3.64E-12	84.85	5D	4.86E+08
6.01E+08	6.01E+08	5.58E-11	90.57	5D	4.88E+08
18014485	18014522	0.25	84.21	2D	4.53E+08
6.07E+08	6.07E+08	1.23E-25	98.55	5D	4.92E+08
6.1E+08	6.1E+08	4.22E-06	89.74	5D	4.94E+08
6.12E+08	6.12E+08	9.73E-10	93.18	5D	4.95E+08
6.16E+08	6.16E+08	1.5E-24	97.10	5D	4.97E+08
6.22E+08	6.22E+08	2E-11	97.62	5D	5.01E+08
6.59E+08	6.59E+08	0.33	100.00	5D	2.87E+08
6.32E+08	6.32E+08	2.08E-16	88.41	5D	5.03E+08
4.75E+08	4.75E+08	1.8	100.00		
6.32E+08	6.32E+08	0.000636	75.71	5D	5.04E+08
95710923	95710991	3.29E-20	92.75	3D	5.69E+08
6.37E+08	6.37E+08	2.89E-27	100.00	5D	5.07E+08
6.39E+08	6.39E+08	1.5E-24	97.10	5D	30066208
6.45E+08	6.45E+08	3.76E-13	81.82	4D	1.81E+08
6.03E+08	6.03E+08	0.002	93.33	5D	5.22E+08
93957269	93957293	0.031	96.00	5D	5.22E+08
7.66E+08	7.66E+08	2.69E-14	88.89	6D	4.11E+08
6.61E+08	6.61E+08	2.08E-16	88.41	5D	5.26E+08
6.62E+08	6.62E+08	5.95E-16	94.64	5D	5.26E+08
6.63E+08	6.63E+08	4.01E-19	91.30	5D	5.27E+08
2.3E+08	2.3E+08	7.5	88.46	5D	5.29E+08
6.7E+08	6.7E+08	6.36E-23	95.65	2D	1.31E+08
6.74E+08	6.74E+08	1.36E-15	98.00	5D	5.34E+08
6.82E+08	6.82E+08	2.21E-14	94.34	5D	5.4E+08
6.85E+08	6.85E+08	4.58E-12	84.06	5D	5.43E+08
6.86E+08	6.86E+08	6.98E-08	95.00	5D	2.44E+08
6.64E+08	6.64E+08	1.17E-07	92.50	5D	5.46E+08
6.91E+08	6.91E+08	3.29E-20	90.41	5D	5.47E+08
7.01E+08	7.01E+08	7.74E-22	94.20	2D	47399779
4345063	4345094	3.27E-05	93.75	6D	3.26E+08
7.03E+08	7.03E+08	1.66E-14	96.00	5D	5.51E+08
7.03E+08	7.03E+08	1.66E-14	96.00	5D	5.51E+08
6.96E+08	6.96E+08	7.74E-22	94.20	5D	5.54E+08

DArTseq markerekkel detektált S

end	e-érték	Azonossági %
13821234	1.49E-15	93.22
6.35E+08	7.89E-08	81.97
24322271	7.9E-06	83.33
28024072	2.11E-21	96.83
1873324	3.35E-06	79.37
34051814	1.42E-23	97.02
35223038	2.26E-27	100.00
40971221	5.67E-16	88.41
15788151	0.057	96.00
45379073	2.58E-20	92.75
5.69E+08	1.74E-11	95.46
84386326	0.000498	82.61
3.33E+08	6.06E-22	94.20
5.48E+08	5.8	95.24
3.44E+08	1.33E-17	85.71
3.49E+08	1.32E-13	97.83
3.54E+08	1.2E-07	100.00
3.54E+08	8.53E-17	100.00
3.62E+08	3.06E-18	95.16
1.69E+08	0.26	91.43
2.75E+08	0.24	100.00
3.7E+08	2.75E-26	100.00
3.8E+08	1.02E-24	100.00
3.87E+08	3.59E-13	100.00
4.12E+08	6.06E-22	95.52
2.1E+08	0.82	91.30
1.03E+08	0.18	95.65
4.22E+08	5.1E-10	97.44
4.25E+08	1.93E-20	98.31
71939484	2	88.89
4.36E+08	1.1E-13	100.00
4.38E+08	6.01E-07	85.71
4.41E+08	1.43E-12	97.73
4.43E+08	1.17E-24	97.10
4.46E+08	3.82E-18	90.14
4.49E+08	1.48E-09	80.88
4.52E+08	1.17E-24	97.10
4.54E+08	5.11E-06	96.77
4.54E+08	1.61E-12	95.65
4.58E+08	9.6E-26	98.55
4.59E+08	3.82E-18	91.05
4.6E+08	8.75E-11	93.75
4.63E+08	1.88E-12	93.88

1M	1U	2M
1	-	1
-	-	-
-	-	-
-	-	1
-	-	-
-	-	-
-	-	-
-	-	0
-	-	0
-	-	-
-	-	0
-	-	0
-	-	-
1	-	1
-	-	-
-	-	0
0	0	0
1	-	1
1	-	1
-	-	-
0	-	0
-	-	0
-	-	0
-	-	1
-	-	1
-	-	0
-	-	0
-	-	0
-	-	1
-	-	-
-	-	1
-	-	1
-	-	0
-	-	-
-	-	-
-	-	1
-	-	0
-	-	0
-	-	-
-	-	-
-	-	-
-	-	1
-	-	0
-	-	0
-	-	-
-	-	-
-	-	-
-	-	0

4.7E+08	9.6E-26	98.55
4.72E+08	9.6E-26	98.55
4.73E+08	1.74E-11	95.46
2.53E+08	0.9	89.66
4.75E+08	2.58E-20	92.75
4.76E+08	0.002	90.91
3.23E+08	0.003	100.00
4.9E+08	4.66E-17	87.67
4.84E+08	1.8E-21	98.36
4.86E+08	2.96E-18	95.00
4.88E+08	8.42E-14	86.96
4.53E+08	2.3	95.46
4.92E+08	9.6E-26	98.55
4.94E+08	5.1E-10	97.44
4.95E+08	7.42E-10	93.18
4.97E+08	1.17E-24	97.10
5.01E+08	1.86E-10	95.24
2.87E+08	2.26E-08	94.87
5.03E+08	4.08E-24	98.49
5.04E+08	6.06E-22	95.52
5.69E+08	4.97E-23	95.65
5.07E+08	4.97E-23	95.65
30066276	1.17E-24	97.10
1.81E+08	3.1	89.29
5.22E+08	3.14E-19	91.30
5.22E+08	4.06E-12	100.00
4.11E+08	0.23	95.83
5.26E+08	1.1E-18	91.43
5.26E+08	1.58E-15	91.67
5.27E+08	1.52E-10	97.56
5.29E+08	6.56E-12	92.00
1.31E+08	2.58E-20	93.94
5.34E+08	1.04E-15	98.00
5.4E+08	2.68E-18	96.49
5.43E+08	8.42E-14	92.59
2.44E+08	0.014	100.00
5.46E+08	6.03E-10	95.12
5.47E+08	4.08E-24	97.06
47399813	0.002	91.43
3.26E+08	0.000304	93.33
5.51E+08	1.27E-14	96.00
5.51E+08	1.27E-14	96.00
5.54E+08	9.6E-26	98.55

-	-	0
-	-	-
-	-	1
-	-	0
-	-	0
1	-	1
-	-	-
0	-	0
-	-	0
-	-	0
-	-	1
-	-	0
-	-	-
-	-	0
-	-	0
-	0	-
-	-	-
-	-	0
-	-	-
-	-	0
-	-	-
-	-	0
-	-	0
-	-	1
0	-	0
0	-	0
-	-	-
-	-	-
-	-	-
-	-	-
0	-	0
-	-	-
-	-	0
-	-	1
-	-	0
-	-	-
-	-	-
-	-	0
-	-	0
-	-	0
-	-	-
-	-	-
-	-	0

NP-k alélváltozatai

Izolált kromoszómák DNS mintái

2U 3M 3U 4M 4U 5M 5U 6M

-	-	-	-	-	1	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	1	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	1	-	-	-	-	-	-
-	0	-	0	-	0	-	-
-	0	-	0	-	0	-	-
-	-	-	-	-	-	-	-
-	0	0	-	-	0	0	-
-	0	-	-	-	0	-	-
-	-	-	-	-	-	-	-
-	1	-	1	-	1	-	-
-	-	-	-	-	-	-	-
-	0	-	0	-	0	-	-
-	-	0	0	-	0	0	-
-	-	-	-	-	1	-	-
-	1	-	1	-	1	-	-
-	-	-	-	-	-	-	-
-	0	-	0	-	0	-	0
-	-	-	-	-	0	-	-
-	0	-	0	-	0	-	-
-	-	-	-	-	1	-	-
-	-	-	1	-	1	-	-
-	0	-	-	-	0	-	0
-	-	-	0	-	0	-	-
-	0	-	0	-	0	-	-
-	1	-	1	-	1	-	-
-	-	-	-	-	-	-	-
-	-	-	1	-	1	-	-
-	-	-	-	-	1	-	-
-	0	-	0	-	0	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	0	-	0	-	0	-	0
-	-	-	-	-	0	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	0	-	-

-	-	-	0	-	0	-	0
-	-	-	-	-	-	-	-
-	1	-	-	-	1	-	-
-	0	-	0	-	0	-	-
-	0	-	0	-	0	-	-
-	-	-	1	-	1	-	-
-	-	-	-	-	-	-	-
-	0	-	0	-	0	-	0
-	0	-	0	-	0	-	-
-	0	-	0	-	0	-	0
-	-	-	1	-	1	-	-
-	-	-	0	-	0	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
0	0	0	-	0	-	0	-
-	-	-	-	-	-	-	-
-	0	-	-	-	0	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	0	-	0	-	-
-	0	-	0	-	0	-	-
-	-	-	1	-	1	-	-
-	-	-	-	-	0	-	-
-	-	-	0	-	0	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	0	-	-
-	-	-	-	-	-	-	-
-	0	-	-	-	0	-	-
-	1	-	1	-	1	-	-
-	0	-	-	-	0	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	0
-	0	-	-	-	0	-	-
-	-	-	0	-	0	-	-
-	-	-	-	-	0	-	-
0	-	-	-	-	-	-	-
0	-	-	-	-	-	-	-
-	-	-	-	-	0	-	-

Teljes genomi DNS

6U 7M 7U Ae. comosa Ae. umbellulata (UU)
 (MM)

-	-	-	1	-
-	-	-	-	-
-	-	-	-	-
-	-	-	1	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	0	-
-	-	-	0	-
-	-	-	-	-
-	0	0	0	0
-	-	-	-	-
-	-	-	-	-
-	1	-	1	-
-	-	-	-	-
-	-	-	0	-
-	-	0	0	0
-	1	-	1	-
-	-	-	1	-
-	-	-	-	-
-	0	-	0	-
-	0	-	0	-
-	-	-	0	-
-	-	-	1	-
-	-	-	1	-
-	0	-	0	-
-	-	-	0	-
-	-	-	0	-
-	1	-	1	-
-	-	-	-	-
-	-	-	1	-
-	-	-	1	-
-	-	-	0	-
-	-	-	-	-
-	-	-	0	-
-	-	-	-	-
-	-	-	-	-
-	-	-	1	-
-	-	-	2	-
-	-	-	0	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	0	-

-	-	-	0	-
-	-	-	-	-
-	-	-	1	-
-	-	-	0	-
-	-	-	0	-
-	-	-	1	-
-	-	-	-	-
-	0	-	-	-
-	-	-	0	-
-	0	-	0	-
-	-	-	1	-
-	0	-	0	-
-	-	-	-	-
-	-	-	1	-
0	-	0	-	0
-	-	-	-	-
-	-	-	0	-
-	-	-	-	-
-	-	-	0	-
-	-	-	-	-
-	-	-	0	-
-	-	-	0	-
-	1	-	1	-
-	-	-	0	-
-	-	-	0	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	1	-
-	0	-	0	-
-	-	-	-	-
-	-	-	0	-
-	-	-	1	-
-	-	-	0	-
-	-	-	-	-
-	-	-	-	-
-	-	-	0	-
-	-	-	0	-
-	-	-	0	-
-	-	-	-	-
-	-	-	-	-
-	-	-	0	-

<i>Ae. biuncialis</i>				
Marker	Marker szekvencia	Kapcsoltsági csoport (LG)	Kr.	cM
1	mab2149	TGCAGGTTTCG(LG3	5UL	0
2	mab511	TGCAGAAGCT(LG3	5UL	2.25
3	mab2563	TGCAGAAGAT(LG3	5UL	2.92
4	mab2226	TGCAGTTGGA(LG3	5UL	4.94
5	mab3279	TGCAGATGAG(LG3	5UL	6.96
6	fU1-mab697	TGCAGCAGTA(LG3	5UL	8.08
7	fU1-mab673	TGCAGGAGTG(LG3	5UL	8.52
8	mab1952	TGCAGCAGCA(LG3	5UL	9.42
9	M12-mab5083	TGCAGTTTAGT(LG3	5UL	10.77
10	mab4224	TGCAGCCAAC(LG3	5UL	11.67
11	mab1091	TGCAGATAAT(LG3	5UL	15.3
12	A-mab1510	TGCAGAACAA(LG3	5UL	17.32
13	mab920	TGCAGCTGCC(LG3	5UL	17.76
14	mab911	TGCAGCTTGTT(LG3	5UL	18.43
15	mab582	TGCAGTCGTCC(LG3	5UL	18.87
16	mab3373	TGCAGCGGCG(LG3	5UL	19.31
17	mab542	TGCAGCTGCA(LG3	5UL	19.98
18	mab2256	TGCAGCGCAC(LG3	5UL	20.42
19	mab4583	TGCAGTAGATC(LG3	5UL	24.28
20	fM2-mab2824	TGCAGGTTGCT(LG3	5UL	24.95
21	mab3879	TGCAGGACCT(LG3	5UL	26.75
22	mab3297	TGCAGCCCCA(LG3	5UL	26.97
23	fU1-mab794	TGCAGGAGGGLG3	5UL	27.41
24	M12-mab5138	TGCAGGCGGGLG3	5UL	29.21
25	mab234	TGCAGCCTCTC(LG3	5UL	34.72
26	mab3241	TGCAGATCCTC(LG3	5UL	35.39
27	mab1559	TGCAGTTGGA(LG3	5UL	37.41
28	M12-mab5259	TGCAGTACGTT(LG3	5UL	39.43
29	mab1358	TGCAGTGGGA(LG3	5UL	45.65
30	mab224	TGCAGGATCC(LG3	5UL	48.13
31	mab1967	TGCAGGAGCT(LG3	5UL	51.06
32	mab3629	TGCAGATCGC(LG3	5UL	51.73
33	mab223	TGCAGAACTC(LG3	5UL	54.45
34	fM2-mab3029	TGCAGCAGCA(LG3	5UL	56.48
35	mab482	TGCAGCGCCG(LG3	5UL	58.75
36	U123-mab5504	TGCAGCAAGA(LG3	5UL	59.42
37	mab4073	TGCAGGTGCT LG3	5UL	61.67
38	mab182	TGCAGAGGAG LG3	5UL	63.01
39	M12-mab5236	TGCAGTGTTCC(LG3	5UL	64.58
40	mab3856	TGCAGTCCTAG(LG3	5UL	66.83
41	mab604	TGCAGATGATC(LG3	5UL	73.56
42	mab1855	TGCAGTACCTT(LG3	5UL	76.28
43	mab2581	TGCAGCGGGGLG3	5UL	86.54
44	M12-mab5238	TGCAGTCCTCCLG3	5UL	88.11

45 mab3593	TGCAGTGTTGTLG3	5UL	93.16
46 mab2391	TGCAGCTGGA(LG3	5UL	94.74
47 G-mab4057	TGCAGGGCGGLG3	5UL	95.64
48 mab239	TGCAGCACGC(LG3	5UL	95.86
49 mab3926	TGCAGGGGCTLG3	5UL	96.75
50 mab2177	TGCAGGACGA(LG3	5UL	100.43
51 mab3948	TGCAGCGTAT(LG3	5UL	102.94
52 fM2-mab3007	TGCAGGTGAG(LG3	5UL	104.07
53 mab4005	TGCAGGTTGG(LG3	5UL	111.38
54 c-mab1341	TGCAGATCAT(LG3	5UL	113.65
55 mab3848	TGCAGTCGCT(LG3	5UL	116.62
56 mab240	TGCAGATGCT(LG3	5UL	117.51
57 mab1757	TGCAGGAGTT(LG3	5UL	119.76

Legjobb BLASTn találat

T. aestivum A genom

Kr.	start	end	e-érték	Azonossági %
5A	4.27E+08	4.27E+08	4.66E-18	92.31
5A	4.29E+08	4.29E+08	6.18E-11	97.56
5A	4.23E+08	4.23E+08	5.31E-11	95.65
5A	3.83E+08	3.83E+08	1.62E-17	89.86
5A	3.13E+08	3.13E+08	1.47E-13	100.00
2A	3.81E+08	3.81E+08	6.91E-16	89.39
5A	4.05E+08	4.05E+08	2.2E-13	92.45
5A	4.3E+08	4.3E+08	6.06E-23	95.65
5A	4.27E+08	4.27E+08	3.82E-19	91.30
5A	4.27E+08	4.27E+08	9.17E-18	100.00
5A	4.37E+08	4.37E+08	7.38E-22	94.20
5A	4.38E+08	4.38E+08	6.06E-23	95.65
5A	4.38E+08	4.38E+08	1.17E-25	98.55
5A	4.41E+08	4.41E+08	6.06E-23	95.65
5A	4.42E+08	4.42E+08	1.33E-17	93.44
5A	4.44E+08	4.44E+08	7.3E-20	100.00
5A	4.49E+08	4.49E+08	3.03E-09	93.02
5A	4.5E+08	4.5E+08	2.11E-22	95.59
5A	4.54E+08	4.54E+08	3.14E-20	92.75
5A	4.56E+08	4.56E+08	1.84E-22	98.41
5A	4.59E+08	4.59E+08	1.74E-23	97.02
5A	4.61E+08	4.61E+08	5.79E-05	91.43
3A	6.81E+08	6.81E+08	3.35E-07	83.64
5A	4.06E+08	4.06E+08	6.91E-16	86.96
5A	4.72E+08	4.72E+08	3.14E-20	92.75
5A	4.72E+08	4.72E+08	4.3E-08	100.00
7A	57795352	57795381	0.53	90.00
5A	4.36E+08	4.36E+08	1.1	82.86
5A	4.76E+08	4.76E+08	1.42E-24	97.10
5A	4.77E+08	4.77E+08	1.25E-12	86.96
5A	4.77E+08	4.77E+08	1.17E-25	98.55
5A	4.8E+08	4.8E+08	3.7E-18	95.00
5A	4.82E+08	4.82E+08	1.13E-18	96.55
5A	4.85E+08	4.85E+08	1.9E-12	95.65
5A	4.88E+08	4.88E+08	3.58E-13	87.50
5A	4.88E+08	4.88E+08	1.38E-07	94.60
4A	7.25E+08	7.25E+08	3.58E-13	82.67
7A	2.12E+08	2.12E+08	0.000606	96.77
5A	5.03E+08	5.03E+08	1.28E-14	100.00
5A	5.13E+08	5.13E+08	6.45E-21	100.00
7A	5.13E+08	5.13E+08	4.36E-12	82.43
5A	5.35E+08	5.35E+08	3.14E-20	92.75
5A	5.37E+08	5.37E+08	1.42E-24	97.10

T. aestivum B genom

Kr.	start
5B	3.83E+08
5B	3.81E+08
5B	3.77E+08
5B	3.31E+08
5B	2.63E+08
1B	1.15E+08
5B	3.57E+08
5B	3.79E+08
5B	3.83E+08
5B	3.83E+08
5B	3.94E+08
5B	3.96E+08
5B	3.96E+08
5B	3.99E+08
5B	4E+08
5B	4.04E+08
5B	4.1E+08
5B	4.11E+08
5B	4.17E+08
4B	3.78E+08
5B	4.24E+08
5B	4.25E+08
3B	1.8E+08
3B	1.94E+08
5B	4.38E+08
5B	4.39E+08
4B	63769990
5B	4.4E+08
3B	7.89E+08
3B	2.53E+08
5B	4.48E+08
5B	4.49E+08
5B	4.55E+08
5B	4.57E+08
5B	4.61E+08
5B	4.63E+08
5B	4.65E+08
1B	5.92E+08
5B	4.75E+08
5B	4.78E+08
5B	4.89E+08
7B	72765102
5B	5.08E+08
5B	5.11E+08

4A	6.51E+08	6.51E+08	3.48E-10	90.00	3B	59991202
5A	5.4E+08	5.4E+08	1.17E-25	98.55	5B	5.15E+08
5A	5.4E+08	5.4E+08	2.74E-19	98.25	5B	5.16E+08
5A	5.46E+08	5.46E+08	2.75E-27	100.00	5B	5.19E+08
5A	5.47E+08	5.47E+08	2.56E-06	96.88	5B	5.21E+08
5A	6.76E+08	6.76E+08	0.007	74.63	5B	5.23E+08
5A	5.49E+08	5.49E+08	9.42E-07	94.29	5B	5.29E+08
5A	5.49E+08	5.49E+08	7.38E-22	94.20	5B	5.27E+08
5A	5.53E+08	5.53E+08	1.42E-24	97.10	5B	5.33E+08
5A	5.56E+08	5.56E+08	0.09	76.56	5B	5.35E+08
5A	5.57E+08	5.57E+08	2.23E-05	93.75	5B	5.37E+08
5A	5.57E+08	5.57E+08	1.98E-16	88.41	5B	5.37E+08
5A	5.58E+08	5.58E+08	3.14E-20	90.41	5B	5.38E+08

end	e-érték	Azonossági %	<i>T. aestivum</i> D genom Kr.	start	end
3.83E+08	2.22E-22	95.71	5D	3.3E+08	3.3E+08
3.81E+08	3.36E-08	92.68	5D	3.28E+08	3.28E+08
3.77E+08	5.58E-11	95.65	5D	3.25E+08	3.25E+08
3.31E+08	7.74E-22	94.20	3D	5.21E+08	5.21E+08
2.63E+08	1.54E-13	100.00	5D	2.41E+08	2.41E+08
1.15E+08	4.89E-18	91.05	1D	44985672	44985739
3.57E+08	4.18E-10	88.68	5D	3.11E+08	3.11E+08
3.79E+08	1.5E-24	97.10	5D	3.26E+08	3.26E+08
3.83E+08	2.08E-16	96.30	5D	3.29E+08	3.29E+08
3.83E+08	4.98E-15	96.08	5D	3.3E+08	3.3E+08
3.94E+08	7.74E-22	94.20	5D	3.36E+08	3.36E+08
3.96E+08	6.36E-23	95.65	5D	3.37E+08	3.37E+08
3.96E+08	1.5E-24	97.10	5D	3.37E+08	3.37E+08
3.99E+08	6.36E-23	95.65	5D	3.4E+08	3.4E+08
4E+08	1.15E-18	95.08	5D	3.41E+08	3.41E+08
4.04E+08	3.26E-18	98.18	5D	3.43E+08	3.43E+08
4.1E+08	3.18E-09	93.02	5D	3.49E+08	3.49E+08
4.11E+08	6.79E-10	80.82	5D	3.5E+08	3.5E+08
4.17E+08	3.29E-20	92.75	5D	3.52E+08	3.52E+08
3.78E+08	0.29	95.83	5D	1.89E+08	1.89E+08
4.24E+08	7.74E-22	95.52	5D	3.59E+08	3.59E+08
4.25E+08	0.003	88.24	5D	3.6E+08	3.6E+08
1.8E+08	8.28E-09	81.69	1D	2.59E+08	2.59E+08
1.94E+08	8.84E-15	86.57	3D	2.84E+08	2.84E+08
4.38E+08	1.23E-25	98.55	5D	3.69E+08	3.69E+08
4.39E+08	4.51E-08	100.00	5D	3.7E+08	3.7E+08
63770008	2	100.00	6D	2.33E+08	2.33E+08
4.4E+08	2.08E-16	89.55	5D	3.35E+08	3.35E+08
7.89E+08	1.1	100.00	2D	28773441	28773462
2.53E+08	1.5E-24	97.10	3D	1.74E+08	1.74E+08
4.48E+08	3.08E-14	85.51	5D	3.76E+08	3.76E+08
4.49E+08	1.23E-25	98.55	5D	3.76E+08	3.76E+08
4.55E+08	7.5E-21	98.33	5D	3.79E+08	3.79E+08
4.57E+08	5.04E-17	94.83	5D	3.81E+08	3.81E+08
4.61E+08	8.48E-11	93.48	5D	3.84E+08	3.84E+08
4.63E+08	1.4E-18	91.30	5D	3.86E+08	3.86E+08
4.65E+08	1.44E-07	94.60	5D	3.87E+08	3.87E+08
5.92E+08	3.76E-13	82.67	3D	1.57E+08	1.57E+08
4.75E+08	1.23E-06	71.77	7D	3.78E+08	3.78E+08
4.78E+08	4.42E-14	100.00	5D	3.97E+08	3.97E+08
4.89E+08	6.77E-21	100.00	5D	4.08E+08	4.08E+08
72765175	1.08E-13	83.78	5D	4.09E+08	4.09E+08
5.08E+08	1.5E-24	97.10	5D	4.22E+08	4.22E+08
5.11E+08	6.36E-23	95.65	5D	4.23E+08	4.23E+08

59991251	3.66E-10	90.00	4D	1.2E+08	1.2E+08
5.15E+08	1.5E-24	97.10	5D	4.26E+08	4.26E+08
5.16E+08	2.88E-19	98.25	5D	4.26E+08	4.26E+08
5.19E+08	1.23E-25	98.55	5D	4.3E+08	4.3E+08
5.21E+08	2.69E-06	94.12	5D	4.32E+08	4.32E+08
5.23E+08	1.71E-17	89.86	5D	4.33E+08	4.33E+08
5.29E+08	3.45E-06	91.89	5D	4.36E+08	4.36E+08
5.27E+08	1.5E-24	97.10	5D	4.34E+08	4.34E+08
5.33E+08	1.5E-24	97.10	5D	4.38E+08	4.38E+08
5.35E+08	8.28E-09	82.61	5D	4.4E+08	4.4E+08
5.37E+08	2.34E-05	93.75	5D	4.41E+08	4.41E+08
5.37E+08	6.36E-23	95.65	5D	4.41E+08	4.41E+08
5.38E+08	3.76E-13	85.29	5D	4.42E+08	4.42E+08

DArTseq markerekkel detektált SNP-k alélva

e-érték	Azonossági %	1M	1U	2M	2U
3.82E-18	91.05	-	-	-	-
8.95E-08	92.50	-	0	-	-
4.36E-11	95.65	-	-	-	-
4.09E-05	93.94	-	-	-	-
1.18E-13	100.00	-	1	-	1
2.11E-21	94.12	-	-	-	-
5.05E-14	94.34	-	0	-	-
1.17E-24	97.10	-	-	-	-
1.33E-17	98.15	-	0	-	-
7.34E-18	100.00	-	1	-	-
4.97E-23	95.65	-	0	-	0
6.06E-22	94.20	-	-	-	-
9.6E-26	98.55	-	-	0	1
1.17E-24	97.10	-	-	-	-
1.69E-21	98.36	-	-	-	0
1.06E-16	96.30	-	-	-	-
5.71E-11	95.35	-	0	-	-
1.17E-24	97.10	-	-	-	-
2.26E-27	100.00	-	-	-	-
2.05E-14	90.00	-	-	-	-
6.06E-22	95.52	-	0	-	-
1.09E-06	94.29	-	0	-	-
5.31E-10	81.69	-	1	-	-
6.91E-15	86.57	-	-	-	-
8.42E-14	85.51	-	0	-	0
1.46E-06	96.88	-	-	-	-
0.13	92.31	-	0	-	0
0.9	82.86	-	-	-	-
2.9	90.91	-	0	-	-
1.17E-24	97.10	-	-	-	-
1.33E-17	89.86	-	-	-	-
9.6E-26	98.55	-	-	-	-
6.97E-20	96.67	-	-	-	-
3.15E-18	93.55	-	-	-	-
1.61E-12	95.65	-	-	-	-
1.1E-18	91.30	-	-	-	-
2.13E-10	100.00	-	-	-	0
3.14E-19	91.30	-	-	-	-
0.006	93.55	-	-	-	-
1.03E-14	100.00	-	-	-	-
5.17E-21	100.00	-	0	-	-
6.06E-22	94.20	-	1	-	-
6.06E-22	94.20	-	1	-	-
9.6E-26	98.55	-	-	-	-

5.8	95.24
9.6E-26	98.55
3.26E-17	96.36
1.17E-24	97.10
2.05E-06	94.12
4.97E-23	95.65
2.93E-06	91.89
1.17E-24	97.10
9.6E-26	98.55
6.06E-22	94.20
3.44E-08	100.00
6.06E-22	94.20
4.66E-17	88.57

-	0	-	-
-	-	-	-
-	0	-	2
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	0	-	-
-	-	-	0

áltozatai

Izolált kromoszómák DNS mintái

3M 3U 4M 4U 5M 5U 6M 6U

-	-	-	-	-	0	-	-
-	0	-	0	-	0	-	-
-	-	-	-	-	0	-	-
-	0	-	0	-	0	-	-
-	1	-	1	-	1	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	0	-	-
-	-	-	-	-	0	-	-
-	0	-	-	-	0	-	-
-	-	-	-	-	1	-	-
-	0	-	-	-	0	-	-
-	-	-	-	-	1	-	-
-	1	-	-	-	1	-	-
-	-	-	-	-	-	-	-
-	0	-	-	-	0	-	0
-	0	-	-	-	0	-	-
-	-	-	-	-	0	-	-
-	-	-	0	-	0	-	-
-	-	-	-	-	0	-	0
-	-	-	-	-	-	-	-
-	-	-	0	-	0	-	-
-	-	-	-	-	0	-	-
-	-	-	-	-	1	-	-
-	-	-	-	-	-	-	-
-	-	-	0	-	0	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	0	-	-
-	1	-	-	-	1	-	-
-	0	-	0	-	0	1	-
-	-	-	-	-	0	-	-
-	-	-	-	-	0	-	-
-	-	-	-	-	-	-	-
-	1	-	-	-	1	-	-
-	-	-	-	-	0	-	-
-	-	-	-	-	-	-	-
-	0	-	-	-	0	-	-
-	-	-	-	-	0	-	-
-	-	-	-	-	1	-	1
-	0	-	-	-	0	-	-
-	-	-	-	-	0	-	0
-	-	-	0	-	0	-	-
-	1	-	1	-	1	-	1
-	-	-	-	-	1	-	-
-	0	-	-	-	0	-	-

-	0	-	-	-	0	-	-
-	1	-	-	-	1	-	-
-	2	-	2	-	2	-	2
-	-	-	-	-	-	-	-
-	0	-	0	-	0	-	-
-	-	-	0	-	0	-	-
-	-	-	-	-	0	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	1	-	-
-	-	-	-	-	0	-	-
-	0	-	0	-	0	-	-

Teljes genomi DNS

7M

7U

Ae. comosa (MM)

Ae. umbellulata (UU)

-	0	-	0
-	-	-	0
-	-	-	0
-	0	-	0
-	1	-	1
-	-	-	-
-	-	-	0
-	-	-	0
-	-	-	0
-	1	-	1
-	-	-	0
-	-	-	1
-	-	-	1
-	-	-	-
-	-	-	0
-	-	-	0
-	-	-	0
-	0	-	0
-	0	-	0
-	-	-	-
-	0	-	0
-	-	-	0
-	-	-	1
-	-	-	-
-	0	-	0
-	-	-	-
-	0	-	0
-	1	-	1
-	0	-	0
-	-	-	0
-	-	-	0
-	-	-	-
-	-	-	1
-	-	-	0
-	-	-	-
-	-	-	0
-	0	-	0
-	-	-	1
-	-	-	0
-	-	-	0
-	-	-	0
-	-	-	1
-	1	-	1
-	-	-	0

-	0	-	0
-	-	-	1
-	2	-	-
-	-	-	-
-	0	-	0
-	-	-	0
-	-	-	0
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	1
-	-	-	0
-	0	-	0

<i>Ae. biuncialis</i>				
Marker	Marker szekvencia	Kapcsoltsági csoport (LG)	Kr.	cM
1 mab4490	TGCAGTGCAGA	LG9	5US	0
2 mab1755	TGCAGCGGATG	LG9	5US	0.67
3 mab865	TGCAGCAGCAG	LG9	5US	0.89
4 fM2-mab3010	TGCAGTGTGTT	LG9	5US	4.53
5 mab940	TGCAGGGCGAC	LG9	5US	5.87
6 mab4413	TGCAGGCCGCG	LG9	5US	7.94
7 mab432	TGCAGTGCATT	LG9	5US	11.65
8 mab4181	TGCAGCATGAT	LG9	5US	13
9 mab4667	TGCAGGAAGCA	LG9	5US	14.8
10 mab3952	TGCAGACGGG	LG9	5US	19.37
11 mab2098	TGCAGAGACAA	LG9	5US	21.17
12 mab2621	TGCAGCCGT	LG9	5US	23.45
13 mab4253	TGCAGTGTCT	LG9	5US	24.81
14 M12-mab5438	TGCAGCCTCG	LG9	5US	28.95
15 mab3687	TGCAGGATCCT	LG9	5US	30.75
16 mab494	TGCAGGATCTT	LG9	5US	33.23
17 mab1508	TGCAGCGTGAG	LG9	5US	36.18
18 mab4370	TGCAGTGGCG	LG9	5US	40.76
19 U123-mab5698	TGCAGCCCAAC	LG9	5US	47.49
20 fU1-mab660	TGCAGGCCGCG	LG9	5US	50.2
21 mab2440	TGCAGAAATGG	LG9	5US	54.78
22 C-mab1749	TGCAGCGCTCT	LG9	5US	56.12
23 mab1411	TGCAGCGACAG	LG9	5US	56.34
24 mab3474	TGCAGAAACCC	LG9	5US	62.09
25 mab891	TGCAGTACAATA	LG9	5US	62.76
26 fM2-mab2997	TGCAGACAAAT	LG9	5US	66.4
27 mab4056	TGCAGCCCCAA	LG9	5US	83.66
28 mab2246	TGCAGGGACAG	LG9	5US	85.69
29 mab4126	TGCAGAACAAT	LG9	5US	86.81
30 mab1928	TGCAGCAGGTC	LG9	5US	87.93
31 mab3737	TGCAGCGCGCG	LG9	5US	89.05
32 mab243	TGCAGGAGGTA	LG9	5US	90.62
33 mab1422	TGCAGGCGTAC	LG9	5US	94.5
34 M12--mab5019	TGCAGGTCGCC	LG9	5US	95.17
35 mab3226	TGCAGCAGTGG	LG9	5US	98.58
36 M12-mab5220	TGCAGCAGAGC	LG9	5US	104.68
37 U123-mab5615	TGCAGATATTTG	LG9	5US	108.14
38 M12-mab5315	TGCAGCTGGAG	LG9	5US	109.26
39 mab923	TGCAGTTGACC	LG9	5US	109.93
40 mab1113	TGCAGGTTGCA	LG9	5US	114.02
41 mab1467	TGCAGCAGCTC	LG9	5US	117.72
42 fM2-mab2981	TGCAGAAGTTC	LG9	5US	123.33
43 mab2224	TGCAGGACCGA	LG9	5US	124.69
44 mab540	TGCAGCGAGCT	LG9	5US	126.28

45 M12-mab5188	TGCAGGAGCCA ¹ LG9	5US	127.4
46 mab1688	TGCAGGGTCTT(LG9	5US	130.57
47 U123-mab5576	TGCAGTGA ¹ ACT(LG9	5US	134.49
48 mab489	TGCAGCGACGALG9	5US	137.47
49 M12-mab5041	TGCAGGGAGGGLG9	5US	138.59

Legjobb BLASTn találat

T. aestivum A genom*T. aestivum*

Kr.	start	end	e-érték	Azonossági %	Kr.
5A	5.82E+08	5.82E+08	2.82E-10	93.33	5B
5A	5.81E+08	5.81E+08	1.62E-17	89.86	7B
5A	5.84E+08	5.84E+08	2.57E-21	94.20	5B
5A	5.85E+08	5.85E+08	6.06E-23	95.65	5B
5A	5.85E+08	5.85E+08	5.78E-14	95.92	5B
5A	5.85E+08	5.85E+08	3.64E-17	98.11	5B
5A	5.92E+08	5.92E+08	2.46E-08	94.74	5B
5A	5.93E+08	5.93E+08	6.06E-23	95.65	5B
5A	5.72E+08	5.72E+08	1.78E-16	90.63	1B
5A	5.97E+08	5.97E+08	1.09E-19	94.03	5B
5A	5.99E+08	5.99E+08	1.33E-18	90.28	5B
6A	5.56E+08	5.56E+08	2.3	89.66	7B
5A	6E+08	6E+08	2.57E-20	96.72	5B
5A	6E+08	6E+08	6.28E-07	96.97	5B
5A	6E+08	6E+08	2.23E-05	93.75	5B
7A	83720914	83720950	0.046	83.78	7B
4A	6.63E+08	6.63E+08	3.65E-10	91.84	5B
5A	6.1E+08	6.1E+08	1.42E-24	97.10	5B
1A	3.89E+08	3.89E+08	0.009	87.88	5B
5A	6.14E+08	6.14E+08	1.42E-24	97.10	5B
5A	6.17E+08	6.17E+08	6.06E-23	95.65	5B
5A	6.17E+08	6.17E+08	2.11E-22	96.92	5B
5A	6.2E+08	6.2E+08	0.14	95.65	5B
7A	4.7E+08	4.7E+08	0.29	88.89	3B
5A	6.23E+08	6.23E+08	4.66E-18	92.31	5B
5A	6.37E+08	6.37E+08	3.35E-06	76.12	5B
3A	6.35E+08	6.35E+08	5.31E-11	84.38	5B
4A	4.83E+08	4.83E+08	2.8	100.00	7B
5A	6.44E+08	6.44E+08	6.06E-23	95.65	5B
5A	6.44E+08	6.44E+08	1.89E-07	89.36	5B
2A	7.6E+08	7.6E+08	2.09E-06	100.00	5B
6A	5.04E+08	5.04E+08	5.8	95.24	5B
5A	6.49E+08	6.49E+08	0.000174	80.36	5B
4A	6.2E+08	6.2E+08	0.51	81.58	5B
7A	2.15E+08	2.15E+08	3.8	100.00	7B
5A	6.54E+08	6.54E+08	1.98E-16	88.73	5B
5A	6.54E+08	6.54E+08	9.6E-08	78.67	5B
5A	6.31E+08	6.31E+08	1.7	91.67	4B
4A	6.88E+08	6.88E+08	6.63E-12	95.75	2B
5A	6.61E+08	6.61E+08	1.42E-24	97.10	4B
5A	6.65E+08	6.65E+08	3.14E-20	92.75	4B
5A	6.64E+08	6.64E+08	7.38E-22	94.20	4B
5A	6.66E+08	6.66E+08	6.88E-08	97.14	4B

5A	6.66E+08	6.66E+08	4.31E-10	93.33	4B
5A	6.67E+08	6.67E+08	1.42E-24	97.10	4B
5A	6.69E+08	6.69E+08	7.88E-09	100.00	4B
2A	15602777	15602817	6.66E-11	97.56	4B
5A	6.71E+08	6.71E+08	7.88E-09	95.00	4B

γ B genom				<i>T. aestivum</i> D genom	
start	end	e-érték	Azonossági %	Kr.	start
5.68E+08	5.68E+08	2.79E-10	93.33	5D	4.62E+08
6.03E+08	6.03E+08	0.027	86.11	5D	4.61E+08
5.7E+08	5.7E+08	1.15E-19	92.75	5D	4.64E+08
5.72E+08	5.72E+08	2.89E-27	100.00	5D	4.65E+08
5.72E+08	5.72E+08	2.58E-12	92.16	5D	4.65E+08
5.73E+08	5.73E+08	6.9E-14	94.44	5D	4.65E+08
5.8E+08	5.8E+08	2.12E-09	97.37	5D	4.73E+08
5.8E+08	5.8E+08	3.29E-20	92.75	5D	4.73E+08
66183035	66183098	1.81E-16	90.63	7D	1.33E+08
5.86E+08	5.86E+08	1.15E-19	94.20	5D	4.78E+08
5.88E+08	5.88E+08	2.7E-21	93.06	5D	4.8E+08
81048879	81048912	0.68	85.71	5D	4.8E+08
5.89E+08	5.89E+08	2.7E-20	96.72	5D	4.81E+08
5.89E+08	5.89E+08	2.3E-06	96.88	5D	4.81E+08
5.9E+08	5.9E+08	2.34E-05	93.75	5D	4.81E+08
2.37E+08	2.37E+08	0.59	82.86	1D	3.55E+08
6.48E+08	6.48E+08	1.34E-09	90.20	4D	15420341
6.04E+08	6.04E+08	0.027	78.95	1D	1.63E+08
3.64E+08	3.64E+08	0.41	84.85	5D	4.91E+08
6.06E+08	6.06E+08	6.36E-23	95.65	5D	4.92E+08
6.1E+08	6.1E+08	6.36E-23	95.65	5D	4.94E+08
6.1E+08	6.1E+08	1.5E-24	97.10	5D	4.94E+08
6.14E+08	6.14E+08	4.51E-08	100.00	5D	4.96E+08
3.42E+08	3.42E+08	1.1	91.30	3D	9538433
6.18E+08	6.18E+08	1.15E-19	93.85	5D	4.98E+08
6.4E+08	6.4E+08	3.52E-06	92.11	5D	5.1E+08
6.43E+08	6.43E+08	4.58E-12	84.06	3D	4.96E+08
2.36E+08	2.36E+08	3	95.46	4D	1.83E+08
6.49E+08	6.49E+08	6.36E-23	95.65	5D	5.16E+08
6.49E+08	6.49E+08	5.69E-08	86.28	5D	5.17E+08
6.53E+08	6.53E+08	5.52E-14	95.92	5D	5.19E+08
6.55E+08	6.55E+08	7.95E-05	85.71	5D	5.2E+08
6.56E+08	6.56E+08	1.23E-25	98.55	5D	5.21E+08
7E+08	7E+08	2.41E-05	91.67	5D	5.22E+08
5.89E+08	5.89E+08	4	100.00	5D	5.26E+08
6.62E+08	6.62E+08	2.7E-21	95.46	5D	5.27E+08
6.63E+08	6.63E+08	1.01E-07	78.67	5D	5.27E+08
5.77E+08	5.77E+08	0.5	83.78	3D	4.59E+08
1.23E+08	1.23E+08	6.96E-12	95.75	1D	4.16E+08
6.1E+08	6.1E+08	1.23E-25	98.55	4D	4.81E+08
6.16E+08	6.16E+08	1.5E-24	97.10	4D	4.84E+08
6.15E+08	6.15E+08	1.5E-24	97.10	4D	4.84E+08
6.17E+08	6.17E+08	8.79E-07	94.29	4D	4.85E+08

6.18E+08	6.18E+08	3.97E-17	96.36	5D	2.66E+08
6.2E+08	6.2E+08	1.5E-24	97.10	4D	4.86E+08
6.22E+08	6.22E+08	8.28E-09	100.00	4D	4.87E+08
6.28E+08	6.28E+08	8.51E-10	95.12	4D	4.9E+08
6.3E+08	6.3E+08	4.58E-12	85.71	4D	4.9E+08

DARtseq markerekkel detektált S

end	e-érték	Azonosság %	1M	1U	2M
4.62E+08	1.03E-14	100.00	-	-	-
4.61E+08	1.17E-24	97.10	-	-	-
4.64E+08	9.6E-26	98.55	-	-	-
4.65E+08	6.06E-22	94.20	-	0	-
4.65E+08	2.4E-11	91.84	-	-	-
4.65E+08	2.91E-17	98.11	-	-	-
4.73E+08	1.97E-08	94.74	-	-	-
4.73E+08	1.17E-24	97.10	-	-	-
1.33E+08	6.05E-15	89.06	-	-	-
4.78E+08	8.99E-20	94.20	-	-	-
4.8E+08	6.91E-15	87.88	-	-	-
4.8E+08	3.97E-15	96.08	-	-	-
4.81E+08	1.07E-17	93.44	-	-	-
4.81E+08	5.03E-07	96.97	-	-	-
4.81E+08	1.78E-05	93.75	-	-	-
3.55E+08	5.8	100.00	-	-	-
15420390	3.8E-15	98.04	-	-	-
1.63E+08	3.1	95.46	-	-	-
4.91E+08	1.2E-07	100.00	-	-	-
4.92E+08	4.97E-23	95.65	-	-	-
4.94E+08	6.06E-22	94.20	-	-	-
4.94E+08	1.74E-22	96.92	-	-	-
4.96E+08	3.44E-08	100.00	-	-	-
9538455	0.82	91.30	-	-	-
4.98E+08	3.82E-18	92.31	-	-	-
5.1E+08	0.000114	89.19	-	-	-
4.96E+08	3.58E-12	85.94	-	-	-
1.83E+08	2.3	91.67	-	0	-
5.16E+08	1.17E-24	97.10	-	-	-
5.17E+08	1.97E-12	92.45	-	1	-
5.19E+08	3.63E-15	97.96	-	0	-
5.2E+08	8.35E-10	93.18	-	-	-
5.21E+08	2.26E-27	100.00	-	1	-
5.22E+08	3.75E-08	89.13	-	1	-
5.26E+08	6.06E-22	94.20	-	-	-
5.27E+08	1.25E-11	83.56	-	-	0
5.27E+08	7.89E-08	78.67	-	-	-
4.59E+08	1.02E-08	87.76	-	-	-
4.16E+08	5.27E-06	92.31	-	-	-
4.81E+08	9.6E-26	98.55	-	-	-
4.84E+08	1.17E-24	97.10	-	-	-
4.84E+08	2.26E-27	100.00	-	-	-
4.85E+08	1.29E-09	100.00	-	-	-

2.66E+08	7.1	83.87
4.86E+08	1.17E-24	97.10
4.87E+08	1.42E-23	97.02
4.9E+08	3.59E-13	100.00
4.9E+08	4.36E-11	84.29

-	-	-
-	-	-
-	-	-
-	-	-
-	-	1

NP-k alélváltozatai

Izolált kromoszómák DNS mintái

2U 3M 3U 4M 4U 5M 5U 6M

-	-	-	-	-	-	-	-
-	-	0	-	-	-	0	-
-	-	-	-	-	-	-	-
-	-	-	-	0	-	0	-
-	-	-	-	-	-	1	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	1	-
-	-	-	-	-	-	0	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	1	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	1	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
0	-	-	-	0	-	0	0
-	-	-	-	0	-	0	-
-	-	0	-	-	-	0	-
-	-	0	-	-	-	0	-
-	-	0	-	0	-	0	-
-	-	1	-	-	-	1	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
0	-	-	-	-	-	0	-
-	-	1	-	-	-	1	-
-	-	-	-	-	-	-	-
-	-	-	-	1	-	1	-
-	-	0	-	-	-	0	-
-	-	-	-	-	-	0	-
-	-	-	-	-	-	1	-
-	-	-	-	-	-	1	-
-	-	0	-	-	-	0	-
0	-	0	-	-	-	0	-
-	-	-	-	-	-	2	-
-	-	1	-	-	-	1	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	1	-
-	-	-	-	-	-	0	-
-	-	-	-	1	-	1	-
-	-	-	-	-	-	-	-
-	-	-	-	1	-	1	-
-	-	-	-	-	-	1	-
-	-	0	-	-	-	0	-
-	-	-	-	0	-	0	-

-	-	-	-	-	-	1	-
-	-	1	-	-	-	1	-
-	-	-	-	-	-	-	-
-	1	-	-	-	-	1	-
-	-	-	-	1	-	1	-

Teljes genomi DNS

6U

7M

7U

Ae. comosa
(MM)

Ae. umbellulata
(UU)

-	-	-	-	-
-	-	-	-	0
-	-	-	-	-
-	-	0	-	0
-	-	-	-	1
-	-	-	-	-
-	-	-	-	-
-	-	-	-	1
-	-	-	-	0
-	-	-	-	-
-	-	-	-	1
-	-	-	-	-
1	-	-	-	1
-	-	-	-	-
-	-	-	-	-
0	-	0	-	0
0	-	-	-	0
-	-	0	-	0
-	-	-	-	0
0	-	-	-	0
1	-	-	-	1
-	-	-	-	-
-	-	-	-	-
-	-	0	-	0
-	-	1	-	1
-	-	-	-	-
-	-	-	-	1
-	-	-	-	0
-	-	-	-	0
-	-	-	-	1
-	-	-	-	1
-	-	-	-	0
0	-	0	-	0
-	-	0	-	2
-	-	1	-	1
-	-	-	-	-
-	-	-	-	1
-	-	-	-	0
-	-	1	-	1
-	-	-	-	-
-	-	-	-	1
-	-	-	-	1
-	-	0	-	0
-	-	0	-	0

1	-	-	-	1
-	-	-	-	1
-	-	-	-	-
-	-	-	-	1
-	-	-	-	1

<i>Ae. biuncialis</i>					Legjobb BL
Marker	Marker szekvencia	Kapcsoltsági csoport (LG)	Kr.	cM	<i>T. aestivum</i> Kr.
1 U123-mab5678	TGCAGGCCTC	LG2	6M		0.6A
2 mab1015	TGCAGAACGG	LG2	6M	2.27	6A
3 mab1208	TGCAGCAGTG	LG2	6M	4.06	6A
4 fU1-mab752	TGCAGACTGT	LG2	6M	5.4	7A
5 U123-mab5604	TGCAGGAGAG	LG2	6M	6.74	6A
6 fM2-mab3045	TGCAGCGCTT	LG2	6M	12.01	6A
7 M12-mab5008	TGCAGCCTAC	LG2	6M	13.8	6A
8 G-mab294	TGCAGGAGCG	LG2	6M	14.47	6A
9 mab279	TGCAGACCTG	LG2	6M	23.67	6A
10 mab3475	TGCAGAGCTT	LG2	6M	28	6A
11 mab296	TGCAGGCACT	LG2	6M	30.25	6A
12 mab3424	TGCAGTACTAC	LG2	6M	32.5	6A
13 mab956	TGCAGTACTAC	LG2	6M	36.39	6A
14 mab3339	TGCAGATCCCT	LG2	6M	44.37	6A
15 fM2-mab3057	TGCAGAAGAA	LG2	6M	45.71	6A
16 mab4298	TGCAGGGGGAL	LG2	6M	47.29	6A
17 fM2-mab3058	TGCAGTTGCGT	LG2	6M	50.46	6A
18 mab4741	TGCAGGGAGC	LG2	6M	51.13	6A
19 mab1125	TGCAGCTTCA	LG2	6M	53.84	6A
20 mab1152	TGCAGCCGAA	LG2	6M	59.12	7A
21 mab4092	TGCAGGTCGT	LG2	6M	60.46	6A
22 mab263	TGCAGGGCTG	LG2	6M	61.13	6A
23 mab587	TGCAGGTTGT	LG2	6M	62.02	6A
24 mab3497	TGCAGCAACC	LG2	6M	62.46	6A
25 fM2-mab3060	TGCAGCCGCC	LG2	6M	63.13	6A
26 fU1-mab795	TGCAGCTTCTG	LG2	6M	64.02	6A
27 mab3617	TGCAGCAGCTI	LG2	6M	67.66	6A
28 fU1-mab657	TGCAGACGAA	LG2	6M	68.55	6A
29 mab887	TGCAGACGGA	LG2	6M	69.67	6A
30 fU1-mab799	TGCAGCAGTAC	LG2	6M	72.38	6A
31 fU1-mab831	TGCAGCGGCA	LG2	6M	73.05	7A
32 fU1-mab719	TGCAGTAGATT	LG2	6M	73.72	6A
33 mab4142	TGCAGCATCAC	LG2	6M	75.52	6A
34 mab501	TGCAGCTGGG	LG2	6M	76.19	6A
35 fM2-mab2858	TGCAGGGACA	LG2	6M	78.44	6A
36 mab1392	TGCAGTAACA	LG2	6M	78.88	6A
37 mab4031	TGCAGAATCCT	LG2	6M	79.1	6A
38 mab3667	TGCAGAGACG	LG2	6M	80.44	6A
39 mab1246	TGCAGGTTGC	LG2	6M	82.01	6A
40 mab310	TGCAGCTCAA	LG2	6M	89.95	6A
41 mab2221	TGCAGCTGCC	LG2	6M	90.84	6A
42 mab4024	TGCAGCGCGG	LG2	6M	92.64	6A

43 mab889	TGCAGGGTTG(LG2	6M	93.98	6A
44 mab3905	TGCAGGTCGTCLG2	6M	95.1	6A
45 fU1-mab853	TGCAGCGGCG(LG2	6M	95.54	6A
46 mab4204	TGCAGCACCG(LG2	6M	97.56	7A
47 fU1-mab696	TGCAGCCAAG(LG2	6M	100.51	6A
48 M12-mab5162	TGCAGGCAGG(LG2	6M	105.8	6A
49 mab3701	TGCAGCAGCA(LG2	6M	106.69	7A
50 U123-mab5508	TGCAGCACTTCLG2	6M	109.17	6A
51 mab337	TGCAGCCACCLG2	6M	110.51	6A
52 mab3074	TGCAGGCGGT(LG2	6M	115.33	6A
53 mab491	TGCAGAGTCTCLG2	6M	116.91	6A
54 U123-mab5549	TGCAGCAGCG(LG2	6M	121.77	6A
55 M12-mab5440	TGCAGATGCTALG2	6M	123.57	6A
56 mab312	TGCAGTTAGGC(LG2	6M	125.14	6A
57 mab3480	TGCAGGGGCGLG2	6M	126.71	6A
58 fU1-mab800	TGCAGGACGC(LG2	6M	130.15	6A
59 fU1-mab686	TGCAGCAGCA(LG2	6M	132.42	3A
60 C-mab1100	TGCAGCCCCG(LG2	6M	137.47	6A
61 mab1067	TGCAGCACCG(LG2	6M	141.17	6A
62 mab4714	TGCAGCTGCG(LG2	6M	143	7A
63 mab1198	TGCAGGGCGCLG2	6M	144.14	6A
64 mab3075	TGCAGCAGGC(LG2	6M	146.64	6A
65 mab2049	TGCAGAGGCA(LG2	6M	148.01	4A
66 mab3871	TGCAGCGCAC(LG2	6M	149.61	6A

.ASTn találat

1 A genom

T. aestivum B genom

start	end	e-érték	Azonossági %	Kr.	start
4955650	4955708	1.17E-06	81.36	1B	21474623
2952520	2952559	1.99E-10	97.50	6B	7943485
5135306	5135373	9.6E-27	100.00	7B	6.02E+08
2.37E+08	2.37E+08	0.37	92.00	6B	11330588
6608865	6608930	3.58E-13	85.51	6B	12599430
7394874	7394942	6.06E-23	95.65	6B	13950917
9274114	9274172	7.38E-22	100.00	6B	15806180
9572504	9572563	1.25E-12	88.33	6B	16608469
12627095	12627163	1.42E-24	97.10	6B	21209894
14388776	14388824	5.52E-14	95.92	6B	23628964
14493318	14493386	6.06E-23	95.65	6B	24755194
15695052	15695097	8.08E-11	93.48	6B	26512601
15939618	15939663	1.9E-12	95.65	6B	16608417
22530913	22530950	4.75E-11	100.00	6B	38885290
22554827	22554881	7.86E-20	100.00	6B	38970817
23364838	23364875	2.02E-09	97.37	6B	40451399
23962030	23962098	6.06E-23	95.65	6B	42230505
3.31E+08	3.31E+08	0.93	83.78	6B	42398342
26529298	26529352	2.03E-14	92.73	6B	45542097
6.57E+08	6.57E+08	0.62	90.00	6B	47105044
28410714	28410780	7.38E-22	95.52	6B	49437545
30868292	30868358	1.74E-23	97.02	6B	50483728
30455224	30455257	0.001	88.24	6B	51311272
29319681	29319711	0.00014	93.55	6B	54098786
32865387	32865455	3.14E-20	92.75	6B	57910569
47644553	47644620	4.08E-25	98.53	6B	81026546
64320109	64320161	4.25E-16	96.23	6B	1.21E+08
93271886	93271954	8.42E-15	86.96	6B	1.5E+08
80819690	80819755	6.91E-16	89.39	6B	1.37E+08
1.05E+08	1.05E+08	4.08E-05	93.94	6B	1.65E+08
6.81E+08	6.81E+08	0.000109	91.18	5B	6.18E+08
4.36E+08	4.36E+08	2.32E-10	95.24	6B	4.5E+08
4.5E+08	4.5E+08	6.06E-23	95.65	6B	5.13E+08
4.55E+08	4.55E+08	2.32E-10	95.24	6B	5.06E+08
4.92E+08	4.92E+08	3.14E-20	92.75	6B	5.28E+08
5.03E+08	5.03E+08	3.82E-19	95.16	6B	5.44E+08
4.99E+08	4.99E+08	2.99E-10	95.24	6B	5.38E+08
5.15E+08	5.15E+08	2.11E-21	98.36	6B	5.59E+08
5.3E+08	5.3E+08	3.9E-07	92.68	6B	5.76E+08
5.6E+08	5.6E+08	1.55E-15	96.15	6B	6.26E+08
5.62E+08	5.62E+08	4.98E-05	77.61	6B	6.31E+08
5.63E+08	5.63E+08	1.78E-05	96.67	6B	6.32E+08

5.63E+08	5.63E+08	7.76E-09	94.87	7B	8968614
5.68E+08	5.68E+08	1.17E-16	98.08	6B	6.39E+08
5.73E+08	5.73E+08	8.08E-11	93.48	6B	6.44E+08
4.19E+08	4.19E+08	0.028	96.00	7B	61544491
5.74E+08	5.74E+08	2.24E-12	93.88	6B	6.46E+08
5.75E+08	5.75E+08	6.06E-09	97.37	6B	6.48E+08
4.1E+08	4.1E+08	0.25	89.66	6B	6.48E+08
5.8E+08	5.8E+08	6.06E-23	95.65	6B	6.56E+08
5.8E+08	5.8E+08	2.75E-27	100.00	6B	6.57E+08
5.88E+08	5.88E+08	3.82E-19	92.54	6B	6.64E+08
5.92E+08	5.92E+08	4.94E-09	100.00	6B	6.72E+08
5.93E+08	5.93E+08	7.38E-22	94.20	6B	6.74E+08
5.93E+08	5.93E+08	1.62E-17	89.86	6B	6.75E+08
5.94E+08	5.94E+08	1.85E-10	83.58	6B	6.76E+08
5.94E+08	5.94E+08	0.000163	96.43	6B	6.76E+08
5.95E+08	5.95E+08	9.55E-20	95.24	6B	6.8E+08
7.49E+08	7.49E+08	0.084	95.65	6B	6.8E+08
5.98E+08	5.98E+08	2.75E-27	100.00	6B	6.87E+08
3.7E+08	3.7E+08	1.3	95.46	6B	6.88E+08
5.06E+08	5.06E+08	0.000124	91.18	6B	6.89E+08
2.05E+08	2.05E+08	0.48	86.49	3B	3.85E+08
6E+08	6E+08	4.97E-24	97.06	6B	6.9E+08
4.75E+08	4.75E+08	2.9	91.67	6B	6.91E+08
6.02E+08	6.02E+08	4.01E-05	89.19	6B	6.92E+08

			<i>T. aestivum</i> D genom		
end	e-érték	Azonossági %	Kr.	start	end
21474691	1.71E-17	89.86	5D	1.65E+08	1.65E+08
7943524	2.09E-10	97.50	6D	4629802	4629841
6.02E+08	0.027	73.53	6D	5829836	5829903
11330628	4.09E-07	90.24	6D	6009952	6009992
12599498	4.01E-19	91.30	6D	6970778	6970846
13950984	2.22E-22	95.59	6D	7484072	7484140
15806237	1.15E-19	98.28	6D	1.5E+08	1.5E+08
16608537	4.01E-19	91.30	6D	9062479	9062547
21209962	1.23E-25	98.55	6D	11358689	11358757
23629011	5.43E-08	87.50	6D	13133013	13133062
24755262	1.5E-24	97.10	6D	13276649	13276717
26512646	8.48E-11	93.48	5D	27984993	27985038
16608462	3.85E-15	100.00	6D	9062427	9062472
38885327	4.99E-11	100.00	6D	4.35E+08	4.35E+08
38970870	1.49E-16	96.30	6D	24028771	24028824
40451436	2.12E-09	97.37	6D	24830727	24830764
42230573	6.36E-23	95.65	6D	25851482	25851550
42398400	1.35E-11	88.14	6D	25929703	25929764
45542152	3.17E-12	89.29			
47105081	2.42E-06	92.11	6D	4.16E+08	4.16E+08
49437609	9.43E-21	95.39	6D	27057081	27057147
50483796	6.36E-23	95.65	6D	27452834	27452897
51311305	0.001	88.24	6D	27538999	27539032
54098822	3.45E-06	91.89	7D	5.95E+08	5.95E+08
57910633	9.43E-21	95.39	6D	29875315	29875383
81026613	2.22E-22	95.59	5D	52399849	52399916
1.21E+08	4.46E-16	96.23	6D	50741708	50741760
1.5E+08	1.71E-17	89.86	6D	56927982	56928050
1.37E+08	1.4E-18	91.30	6D	63714626	63714690
1.65E+08	1.15E-18	95.08	6D	86800253	86800320
6.18E+08	0.005	92.86	6D	2.26E+08	2.26E+08
4.5E+08	2.97E-09	95.00	6D	2.89E+08	2.89E+08
5.13E+08	6.36E-23	95.65	6D	3.13E+08	3.13E+08
5.06E+08	2.44E-10	95.24			
5.28E+08	1.5E-24	97.10	6D	3.51E+08	3.51E+08
5.44E+08	4.01E-19	92.54	6D	3.62E+08	3.62E+08
5.38E+08	1.62E-07	87.23	6D	3.57E+08	3.57E+08
5.59E+08	1.4E-17	93.44	6D	3.73E+08	3.73E+08
5.76E+08	4.09E-07	92.68	6D	3.86E+08	3.86E+08
6.26E+08	1.09E-17	98.15	6D	4.15E+08	4.15E+08
6.31E+08	3.52E-07	83.33	6D	4.19E+08	4.19E+08
6.32E+08	0.000228	93.33	6D	4.19E+08	4.19E+08

8968649	0.008	87.18	6D	4.2E+08	4.2E+08
6.39E+08	1.23E-16	98.08	6D	4.24E+08	4.24E+08
6.44E+08	2E-12	95.65	6D	4.28E+08	4.28E+08
61544515	0.35	92.00	6D	4.29E+08	4.29E+08
6.46E+08	2.35E-12	93.88	6D	4.29E+08	4.29E+08
6.48E+08	1.5E-10	93.48	6D	4.3E+08	4.3E+08
6.48E+08	8.12E-08	94.60	6D	4.3E+08	4.3E+08
6.56E+08	2.89E-27	100.00	6D	4.34E+08	4.34E+08
6.57E+08	8.84E-15	86.96	6D	4.34E+08	4.34E+08
6.64E+08	1.82E-23	97.02	6D	4.39E+08	4.39E+08
6.72E+08	5.18E-09	100.00	6D	4.46E+08	4.46E+08
6.74E+08	6.36E-23	95.65	6D	4.46E+08	4.46E+08
6.75E+08	6.36E-23	95.65	6D	4.47E+08	4.47E+08
6.76E+08	3.08E-14	88.06	6D	4.47E+08	4.47E+08
6.76E+08	0.000171	96.43	2D	6.34E+08	6.34E+08
6.8E+08	2.36E-21	98.36	6D	4.49E+08	4.49E+08
6.8E+08	0.007	96.00	7D	3.94E+08	3.94E+08
6.87E+08	1.5E-24	97.10	6D	4.52E+08	4.52E+08
6.88E+08	0.000212	85.37	6D	4.53E+08	4.53E+08
6.89E+08	3.07E-06	94.12	6D	4.53E+08	4.53E+08
3.85E+08	6.1	95.24	2D	3.58E+08	3.58E+08
6.9E+08	6.36E-23	95.65	6D	4.54E+08	4.54E+08
6.91E+08	1.01E-12	89.83	6D	4.55E+08	4.55E+08
6.92E+08	3.45E-06	91.89	6D	4.55E+08	4.55E+08

DARtseq markerekkel detektált SNP-k alélvi

e-érték Azonosság %

1M 1U 2M 2U

e-érték	Azonosság %	1M	1U	2M	2U
0.9	95.65	-	-	-	-
3.75E-12	100.00	0	-	-	-
7.88E-27	100.00	0	-	-	-
0.000162	85.37	-	-	-	-
3.14E-19	91.30	-	-	-	-
4.97E-23	95.65	-	-	-	-
0.9	86.67	-	-	-	-
1.17E-24	97.10	-	-	-	-
2.26E-27	100.00	-	-	-	-
3.4E-09	88.00	-	-	-	-
2.26E-27	100.00	-	-	-	1
1.61E-12	95.65	-	-	0	-
3.11E-15	100.00	-	0	-	-
1.33E-10	100.00	-	-	-	-
5.89E-14	92.59	-	-	-	-
1.97E-08	94.74	-	-	-	-
2.58E-20	92.75	-	-	0	-
3.15E-18	93.55	-	-	-	-
		-	-	-	-
0.012	92.86	-	-	-	-
6.06E-22	95.52	-	-	-	-
3.14E-19	93.75	-	-	-	-
8.71E-05	91.18	-	-	-	-
0.064	92.31	-	-	-	-
1.17E-24	97.10	-	-	-	-
2.41E-14	86.77	-	-	1	-
3.4E-16	96.23	0	-	-	-
1.17E-24	97.10	-	-	1	-
3.82E-18	92.31	-	-	-	-
9.36E-06	76.47	-	-	1	-
3.95E-09	100.00	-	-	-	-
4.1E-06	94.12	0	-	-	-
1.17E-24	97.10	0	-	-	-
		-	-	-	-
1.17E-24	97.10	-	-	-	-
8.42E-14	85.92	-	-	1	-
4.56E-07	86.96	-	-	-	-
1.69E-21	98.36	-	-	0	-
0.084	95.83	-	-	-	-
1.96E-19	100.00	-	-	-	-
6.06E-22	96.88	-	-	-	-
3.35E-07	100.00	-	-	-	-

1	-	1	-	1	-	1	-
1	-	-	-	-	-	1	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	0	-
1	-	-	-	-	-	1	-
-	-	-	-	-	-	0	-
1	-	-	-	-	-	1	-
-	-	-	-	-	-	1	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
0	-	0	-	-	-	0	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	0	-
-	-	0	-	-	-	0	-
-	-	-	-	-	-	-	-
0	-	-	-	-	-	0	-
1	-	-	-	-	-	1	-
0	-	-	-	0	-	0	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
1	-	1	-	1	-	1	-

Teljes genomi DNS

7M

7U

Ae. comosa (MM) Ae. umbellulata (UU)

-	-	-	-
-	-	0	-
-	-	0	-
-	-	-	-
-	-	0	-
-	-	-	-
-	-	-	-
0	-	0	-
-	-	1	-
0	-	0	-
-	-	1	-
0	-	0	-
0	-	0	0
-	-	0	-
-	-	-	-
-	-	-	-
-	-	2	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	1	-
-	-	1	-
-	-	1	-
-	-	1	-
-	-	0	-
-	-	1	-
-	-	-	-
-	-	1	-
-	-	-	-
-	-	0	-
-	-	0	-
1	-	1	-
-	-	0	-
-	-	1	-
-	-	1	-
-	-	0	-
1	-	1	-
-	-	0	-
-	-	-	-
-	-	0	-

1	-	1	-
1	-	1	-
-	-	-	-
-	-	0	-
1	-	1	-
-	-	0	-
1	-	1	-
-	-	1	-
-	-	0	-
-	-	-	-
0	-	0	-
-	-	-	-
-	-	-	-
-	-	0	-
-	-	0	-
-	-	-	-
-	-	0	-
-	-	1	-
-	-	0	-
-	-	-	-
-	-	-	-
-	-	0	-
-	-	-	-
1	-	1	-

<i>Ae. biuncialis</i>				
Marker	Marker szekvencia	Kapcsoltsági csoport (LG)	Kr.	cM
1 mab4445	TGCAGGATTGAGL	LG10	6UL	0
2 mab1324	TGCAGCACCTCT	LG10	6UL	2.25
3 fU1-mab685	TGCAGAGAACCCL	LG10	6UL	8.48
4 mab3589	TGCAGTGCAGCCL	LG10	6UL	12.58
5 mab2294	TGCAGGAGCGC	LG10	6UL	13.03
6 mab4775	TGCAGTTTACATL	LG10	6UL	13.95
7 mab1087	TGCAGGTCGGC	LG10	6UL	16.03
8 fU1--mab767	TGCAGGTCGGC	LG10	6UL	16.71
9 mab2027	TGCAGAGGAGC	LG10	6UL	19.26
10 mab1273	TGCAGTAGGAGGL	LG10	6UL	22.25
11 mab3105	TGCAGAATACTG	LG10	6UL	27.3
12 M12-mab5115	TGCAGTGAACGCL	LG10	6UL	28.42
13 mab3458	TGCAGCTGCGACL	LG10	6UL	33.71
14 U123-mab5706	TGCAGCACGCGTL	LG10	6UL	43.75
15 mab3106	TGCAGTGGAGG	LG10	6UL	47.89
16 M12-mab5137	TGCAGAGGAGC	LG10	6UL	49.47
17 mab4096	TGCAGGCTCGG	LG10	6UL	56.23
18 mab3643	TGCAGGCTCTCC	LG10	6UL	56.9
19 mab3793	TGCAGTTTAAGG	LG10	6UL	59.17
20 mab1043	TGCAGTATACAT	LG10	6UL	61.44
21 mab3135	TGCAGATTCGTT	LG10	6UL	64.66
22 mab4037	TGCAGCGGTTGAL	LG10	6UL	66.48
23 mab4756	TGCAGTCCCGCT	LG10	6UL	78.25
24 mab3692	TGCAGCAGGGC	LG10	6UL	80.96
25 mab4352	TGCAGTTCCGAC	LG10	6UL	81.4
26 mab441	TGCAGTTTCCCA	LG10	6UL	81.62
27 M12-mab4916	TGCAGGACGCG	LG10	6UL	82.06
28 mab1545	TGCAGATCAGAA	LG10	6UL	103.32
29 mab1077	TGCAGGTTGTGCG	LG10	6UL	108.71
30 fM2-mab2847	TGCAGGGAGAA	LG10	6UL	111.95
31 mab3752	TGCAGCGGATGTL	LG10	6UL	112.4
32 mab4398	TGCAGGACGGG	LG10	6UL	112.62
33 mab1627	TGCAGGGTCACGL	LG10	6UL	123.33
34 U123-mab5683	TGCAGCTGCTCC	LG10	6UL	129.82
35 mab4187	TGCAGCCTCGCGL	LG10	6UL	132.76
36 mab95	TGCAGTAGGAGGL	LG10	6UL	135.48
37 mab3901	TGCAGGGGCAG	LG10	6UL	137.73
38 mab124	TGCAGTTGTGGA	LG10	6UL	141.36
39 fM2-mab2873	TGCAGTTTTGAC	LG10	6UL	142.49
40 mab1991	TGCAGGCAGGT	LG10	6UL	149.76
41 mab286	TGCAGCCCTCGCL	LG10	6UL	156.54
42 mab4695	TGCAGACGGAG	LG10	6UL	157.66
43 M12-mab5365	TGCAGCGTTACG	LG10	6UL	165.72
44 mab2765	TGCAGGTGGATGL	LG10	6UL	167.54

45 mab1641	TGCAGAAACCCALG10	6UL	169.79
46 mab3819	TGCAGCAGGAG(LG10	6UL	173.89
47 fU1-mab763	TGCAGCCGCACCLG10	6UL	174.11
48 mab4698	TGCAGCCTGTGGLG10	6UL	176.13
49 mab1126	TGCAGAAGCGTELG10	6UL	177.25
50 mab596	TGCAGCCGCGC(LG10	6UL	180.42
51 mab970	TGCAGTGATTGG LG10	6UL	185.94
52 mab1332	TGCAGAACTCCT LG10	6UL	186.61
53 fU1-mab683	TGCAGCAGCAACLG10	6UL	191.4

Legjobb BLASTn találat

T. aestivum A genom*T. aestivum*

Kr.	start	end	e-érték	Azonossági %	Kr.
5A	2.74E+08	2.74E+08	3.35E-07	94.60	2B
7A	6.9E+08	6.9E+08	1.42E-24	97.10	7B
6A	34292538	34292580	2.04E-05	86.05	6B
6A	1.62E+08	1.62E+08	7.53E-10	95.12	3B
7A	6.95E+08	6.95E+08	6.06E-23	95.65	7B
5A	1.76E+08	1.76E+08	0.51	95.65	6B
7A	6.97E+08	6.97E+08	7.38E-22	94.20	7B
7A	6.97E+08	6.97E+08	1.17E-25	98.55	7B
7A	6.97E+08	6.97E+08	3.35E-07	78.87	7B
7A	7.04E+08	7.04E+08	1.98E-16	88.41	7B
6A	6683646	6683666	0.31	100.00	7B
7A	7.02E+08	7.02E+08	3.35E-07	79.10	7B
4A	6.93E+08	6.93E+08	0.14	92.00	4B
7A	7.09E+08	7.09E+08	4.08E-06	73.97	5B
7A	7.11E+08	7.11E+08	9.27E-10	93.18	7B
4A	4.06E+08	4.06E+08	0.026	86.11	2B
7A	7.18E+08	7.18E+08	4.8E-13	100.00	7B
7A	7.19E+08	7.19E+08	6.48E-15	91.53	7B
5A	2.73E+08	2.73E+08	2.4	95.65	4B
7A	7.22E+08	7.22E+08	0.024	95.83	7B
7A	7.24E+08	7.24E+08	0.31	77.55	6B
7A	7.25E+08	7.25E+08	0.000482	87.18	7B
7A	7.27E+08	7.27E+08	4.01E-05	91.43	1B
7A	96059591	96059622	1.83E-06	96.88	3B
4A	6.85E+08	6.85E+08	4.21E-05	79.69	2B
7A	6.15E+08	6.15E+08	6	95.46	7B
7A	7.32E+08	7.32E+08	2.75E-27	100.00	7B
2A	7.58E+08	7.58E+08	3.24E-12	95.65	2B
2A	7.59E+08	7.59E+08	2.23E-05	93.75	2B
2A	7.6E+08	7.6E+08	8.99E-21	94.20	2B
7A	79808037	79808072	0.072	83.33	
2A	7.59E+08	7.59E+08	1.68E-22	100.00	2B
2A	7.77E+08	7.77E+08	3.44E-09	91.11	2B
2A	7.76E+08	7.76E+08	0.000606	81.63	5B
2A	7.75E+08	7.75E+08	4.08E-25	98.53	2B
2A	7.7E+08	7.7E+08	3.14E-20	92.75	2B
2A	7.7E+08	7.7E+08	6.45E-21	100.00	6B
2A	7.68E+08	7.68E+08	1.09E-11	92.00	2B
2A	7.7E+08	7.7E+08	2.26E-09	89.80	2B
1A	3.57E+08	3.57E+08	1.17E-06	77.61	5B
4A	3.62E+08	3.62E+08	7.38E-22	94.20	6B
2A	7.62E+08	7.62E+08	1.13E-08	94.87	2B
1A	5.44E+08	5.44E+08	7.38E-22	94.20	1B
2A	6.97E+08	6.97E+08	4.66E-18	91.05	1B

5A	5.13E+08	5.13E+08	9.6E-08	82.76	7B
1A	5.52E+08	5.52E+08	1.5E-11	100.00	1B
1A	5.52E+08	5.52E+08	4.32E-15	97.96	1B
3A	6.47E+08	6.47E+08	2.24E-12	97.73	1B
1A	5.55E+08	5.55E+08	3.9E-07	90.24	1B
1A	5.56E+08	5.56E+08	2.23E-05	93.75	1B
2A	6.45E+08	6.45E+08	3.6	88.89	1B
1A	5.57E+08	5.57E+08	2.75E-27	100.00	1B
1A	5.59E+08	5.59E+08	0.004	87.88	6B

γ B genom				<i>T. aestivum</i> D genom	
start	end	e-érték	Azonossági %	Kr.	start
6.13E+08	6.13E+08	1.5E-24	97.10	3D	5.13E+08
6.75E+08	6.75E+08	1.23E-25	98.55	7D	5.96E+08
62701806	62701848	2.14E-05	86.05	5D	5.39E+08
7.72E+08	7.72E+08	6.49E-11	97.56	1D	55021680
6.83E+08	6.83E+08	6.36E-23	95.65	7D	6.03E+08
2.47E+08	2.47E+08	1.9	95.83	7D	14848111
6.87E+08	6.87E+08	6.36E-23	95.65	7D	6.04E+08
6.87E+08	6.87E+08	2.89E-27	100.00	7D	6.04E+08
6.89E+08	6.89E+08	7.74E-22	94.20	7D	6.06E+08
6.97E+08	6.97E+08	7.74E-22	95.52	7D	6.08E+08
7E+08	7E+08	4.01E-19	92.54	7D	6.11E+08
7.01E+08	7.01E+08	1.01E-07	82.76	7D	6.12E+08
1.36E+08	1.36E+08	0.51	92.31	5D	3.21E+08
3.09E+08	3.09E+08	0.000182	100.00	3D	5.21E+08
7.11E+08	7.11E+08	9.73E-10	93.18	7D	6.17E+08
5.69E+08	5.69E+08	0.008	96.55	6D	1.32E+08
7.21E+08	7.21E+08	6.14E-12	100.00	7D	6.23E+08
7.21E+08	7.21E+08	2.22E-08	83.05	1D	1.57E+08
2.4E+08	2.4E+08	0.72	100.00	7D	2.34E+08
7.27E+08	7.27E+08	0.31	100.00	7D	6.26E+08
2.22E+08	2.22E+08	1.2	95.65	7D	6.29E+08
7.31E+08	7.31E+08	1.19E-05	89.74	7D	6.29E+08
3.93E+08	3.93E+08	0.022	83.78	7D	6.38E+08
1.35E+08	1.35E+08	1.92E-06	96.88	1D	3.37E+08
6.81E+08	6.81E+08	2.14E-15	90.63	5D	1.21E+08
7.48E+08	7.48E+08	0.15	87.50	7D	6.33E+08
7.42E+08	7.42E+08	1.5E-24	97.10	7D	6.34E+08
7.7E+08	7.7E+08	0.02	76.67	2D	5.72E+08
7.71E+08	7.71E+08	4.51E-08	100.00	2D	6.29E+08
7.74E+08	7.74E+08	1.23E-06	80.60	2D	6.31E+08
				6D	4.28E+08
7.76E+08	7.76E+08	9.14E-20	98.28	2D	6.33E+08
7.8E+08	7.8E+08	6.55E-12	95.56	2D	6.51E+08
3.66E+08	3.66E+08	1.2	89.29	2D	6.49E+08
7.85E+08	7.85E+08	1.23E-25	98.55	2D	1.64E+08
7.91E+08	7.91E+08	7.74E-22	94.20	2D	6.45E+08
41433857	41433879	0.83	95.65	2D	6.45E+08
7.94E+08	7.94E+08	2.88E-19	98.25	2D	6.43E+08
7.91E+08	7.91E+08	2.22E-22	96.92	2D	6.45E+08
6.1E+08	6.1E+08	8.84E-15	86.96	1D	4.62E+08
5.26E+08	5.26E+08	1.23E-25	98.55	5D	5.39E+08
7.96E+08	7.96E+08	1.19E-08	94.87	2D	6.01E+08
6.15E+08	6.15E+08	1.4E-18	95.08	1D	4.49E+08
6.22E+08	6.22E+08	7.74E-22	94.20	1D	4.52E+08

5.17E+08	5.17E+08	0.33	100.00	5D	4.07E+08
6.32E+08	6.32E+08	6.69E-10	97.44	1D	4.6E+08
6.33E+08	6.33E+08	4.53E-15	97.96	1D	4.61E+08
6.37E+08	6.37E+08	4.53E-15	97.96	3D	5.11E+08
6.38E+08	6.38E+08	3.36E-08	92.68	1D	4.63E+08
6.4E+08	6.4E+08	8.16E-05	93.55	1D	4.64E+08
6.42E+08	6.42E+08	0.007	92.59	1D	4.65E+08
6.42E+08	6.42E+08	4.01E-19	91.30	1D	4.65E+08
1.24E+08	1.24E+08	0.62	91.67	4D	1.05E+08

DARtseq markerekkel detektált S

end	e-érték	Azonosság %	1M	1U	2M
5.13E+08	1.63E-16	88.41	-	-	-
5.96E+08	4.97E-23	95.65	-	-	-
5.39E+08	0.000695	90.91	-	-	-
55021720	2.56E-08	92.68	-	1	1
6.03E+08	3.14E-19	91.30	-	0	-
14848130	0.43	100.00	-	0	-
6.04E+08	4.97E-23	95.65	-	0	-
6.04E+08	2.26E-27	100.00	-	-	-
6.06E+08	3.14E-19	91.30	-	0	-
6.08E+08	1.17E-24	97.10	-	0	-
6.11E+08	0.002	77.05	-	-	-
6.12E+08	2.75E-07	79.10	-	-	-
3.21E+08	0.11	92.00	-	0	-
5.21E+08	0.000498	100.00	-	-	-
6.17E+08	9.04E-09	90.91	-	-	-
1.32E+08	3.58E-12	90.74	-	-	-
6.23E+08	1.64E-11	97.62	-	-	-
1.57E+08	0.19	92.31	-	1	-
2.34E+08	1.9	95.24	-	-	-
6.26E+08	0.019	92.86	-	-	-
6.29E+08	4.08E-24	97.06	-	-	-
6.29E+08	0.000386	87.18	-	1	-
6.38E+08	0.018	83.78	-	0	-
3.37E+08	0.003	92.86	-	0	-
1.21E+08	1.86E-08	87.04	-	1	-
6.33E+08	0.003	90.63	-	1	-
6.34E+08	1.17E-24	97.10	-	1	-
5.72E+08	7.9	100.00	-	0	-
6.29E+08	3.44E-08	100.00	-	0	-
6.31E+08	1.52E-10	84.29	-	-	-
4.28E+08	0.064	83.33	-	0	-
6.33E+08	1.35E-22	100.00	-	0	-
6.51E+08	5.31E-12	95.56	-	0	-
6.49E+08	3.35E-06	86.67	-	0	-
1.64E+08	1.17E-24	98.51	-	-	-
6.45E+08	2.58E-20	92.75	-	-	-
6.45E+08	2.2E-19	98.25	-	0	-
6.43E+08	2.2E-19	98.25	-	-	-
6.45E+08	1.42E-23	98.46	-	-	-
4.62E+08	2.41E-14	88.89	-	-	-
5.39E+08	6.06E-22	94.20	-	-	-
6.01E+08	9.04E-09	94.87	-	-	-
4.49E+08	2.58E-20	92.75	-	-	-
4.52E+08	6.06E-22	94.20	-	0	-

4.07E+08	6.47E-09	80.88
4.6E+08	1.2E-11	100.00
4.61E+08	3.63E-15	97.96
5.11E+08	6.56E-12	97.67
4.63E+08	6.03E-10	95.12
4.64E+08	1.46E-06	96.88
4.65E+08	0.002	92.86
4.65E+08	6.06E-22	94.20
1.05E+08	5.7	100.00

-	0	-
-	0	-
-	0	-
-	0	-
-	1	-
-	1	-
-	1	-
-	1	-
-	-	-

NP-k alélváltozatai

Izolált kromoszómák DNS mintái

2U 3M 3U 4M 4U 5M 5U 6M

-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
1	-	1	-	1	-	1	-
-	-	0	-	0	-	-	-
0	-	0	-	0	-	-	-
-	-	0	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
0	-	0	-	0	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	0	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	1	-	1	-	-	-
-	-	-	-	-	-	-	-
1	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
1	-	1	-	-	-	-	-
0	0	0	-	0	-	-	-
0	-	0	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	1	-	-	-	-	-
-	-	1	-	1	-	-	-
-	-	0	-	0	-	-	-
-	2	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	0	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	0	-	-	-	-	-
0	-	0	-	-	-	-	-
-	-	-	-	-	-	-	-
-	0	-	-	-	-	-	-
-	-	0	-	0	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	1	-	-	-	-	-	-
-	-	0	-	0	-	-	-

0	-	0	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	0	-	-	-	-	-
0	-	-	-	0	-	-	-
-	-	1	-	-	-	-	-
-	-	1	-	-	-	-	1
1	-	1	-	-	-	-	-
-	-	-	-	1	-	-	-
-	-	-	-	-	-	-	-

Teljes genomi DNS

6U

7M

7U

Ae. comosa (MM)

Ae. umbellulata
(UU)

-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
1	-	1	-	1
0	-	-	-	0
0	-	0	-	-
0	-	-	-	0
-	-	-	-	0
0	-	-	-	0
0	0	-	0	0
-	-	-	-	-
1	-	-	-	-
0	-	0	-	0
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
1	-	-	-	1
-	-	-	-	-
1	-	-	-	1
-	-	-	-	-
1	-	-	-	1
0	-	0	-	0
0	-	-	-	0
1	-	-	-	1
1	-	-	-	1
1	-	-	-	1
0	-	0	-	0
0	-	-	-	0
-	-	-	-	-
0	-	-	-	0
0	-	-	-	0
0	-	0	-	0
0	-	-	-	0
0	-	-	-	0
0	-	-	-	0
-	-	-	-	-
0	-	-	-	0
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
2	-	-	-	0

0	-	0	-	0
0	-	-	-	0
0	-	-	-	0
0	-	-	-	0
1	-	-	-	1
1	-	-	-	1
1	-	1	-	1
1	-	-	-	1
1	-	1	-	1

<i>Ae. biuncialis</i>				
Marker	Marker szekvencia	Kapcsoltsági csoport (LG)	Kr.	cM
1 M12-mab5251	TGCAGAGAGAAGGG	LG12	6US	0
2 mab4684	TGCAGTGCACCTCCAL	LG12	6US	0.67
3 mab4172	TGCAGGCACCGAGTIL	LG12	6US	1.34
4 M12-mab5367	TGCAGCTTAACTGAGL	LG12	6US	2.93
5 mab4131	TGCAGCTGCTGGCA	LG12	6US	4.29
6 mab4028	TGCAGCTGCCGGCA	LG12	6US	8.16
7 mab4468	TGCAGCACCGCCGT	LG12	6US	13.21
8 M12-mab4971	TGCAGATTGTAATTT	LG12	6US	13.43
9 fU1-mab839	TGCAGGTGCGTCGTAL	LG12	6US	15.49
10 mab3730	TGCAGGTGTGCACCL	LG12	6US	17.51
11 mab4085	TGCAGCTCGCGGTG	LG12	6US	18.18
12 mab3742	TGCAGCTTCCCGCG	LG12	6US	19.98
13 mab2141	TGCAGCAGGCGCTG	LG12	6US	23.15
14 mab4406	TGCAGTGAAGCAGC	LG12	6US	27.96
15 mab3829	TGCAGGCGCCGTTT	LG12	6US	29.76
16 fU1-mab724	TGCAGCCTCGGGCT	LG12	6US	30.43
17 mab1882	TGCAGCTCGGAGTCAL	LG12	6US	31.1
18 mab905	TGCAGCTTCTTCATC	LG12	6US	39.3
19 mab3572	TGCAGAGCCGACGG	LG12	6US	41.1
20 mab3154	TGCAGGCCACGCGG	LG12	6US	43.81
21 U123-mab5752	TGCAGGCGGCGTCG	LG12	6US	46.53
22 mab1662	TGCAGGCAGAGTGC	LG12	6US	51.91
23 fU1-mab709	TGCAGCAGAGGGGGL	LG12	6US	54.9
24 mab576	TGCAGACACACCCACL	LG12	6US	57.61
25 mab1236	TGCAGCATGCAGGC	LG12	6US	65.82
26 mab3576	TGCAGGTATATGTAC	LG12	6US	67.39
27 fU1-T1-mab746	TGCAGGCTTGGAATTL	LG12	6US	70.36
28 mab2107	TGCAGGGTCCCGCT	LG12	6US	77.14
29 mab1183	TGCAGGGCTTACTG	LG12	6US	84.85
30 mab2486	TGCAGCACTTCGACAL	LG12	6US	85.52
31 mab4150	TGCAGCGCTGCTGG	LG12	6US	87.32
32 M12-mab5036	TGCAGGCCCTCCGC	LG12	6US	88.44
33 mab3165	TGCAGGCATGAGCA	LG12	6US	93.03
34 mab502	TGCAGAGGAGCCAA	LG12	6US	96.89
35 mab266	TGCAGCAGATATGTG	LG12	6US	99.19
36 mab2118	TGCAGCGGCGGGGAL	LG12	6US	103.85
37 C-mab4636	TGCAGACGGCGGAG	LG12	6US	109.78
38 mab4359	TGCAGGCGGGCCTG	LG12	6US	117.68
39 mab1385	TGCAGGACAGAGGC	LG12	6US	119.03
40 mab299	TGCAGTATTCTTCTGT	LG12	6US	123.83
41 mab3774	TGCAGATCCACCCACL	LG12	6US	128.43
42 fM2-mab3038	TGCAGGCGAGGAGGL	LG12	6US	132.1
43 M12-mab5341	TGCAGCGCGGTGTA	LG12	6US	135.07
44 mab265	TGCAGCGCTTCCCGAL	LG12	6US	136.19

45 mab297	TGCAGCAGCGCCTT(LG12	6US	141.01
46 mab4183	TGCAGTAAGACAGC(LG12	6US	145.11
47 mab1112	TGCAGGGCGTCGAC(LG12	6US	146.23
48 mab4292	TGCAGCGGACAGGC(LG12	6US	150.1
49 fM2-mab3046	TGCAGATCCATCGTC(LG12	6US	157.56
50 mab293	TGCAGATCCGTCGTC(LG12	6US	162.37
51 mab1513	TGCAGAGCTTGCCT(LG12	6US	164.62

Legjobb BLASTn találat

T. aestivum A genom*T. aestivum*

Kr.	start	end	e-érték	Azonossági %	Kr.
4A	4.46E+08	4.46E+08	6.47E-10	95.24	4B
4A	4.49E+08	4.49E+08	1.33E-18	88.00	4B
1A	5.34E+08	5.34E+08	0.31	92.31	5B
6A	1.81E+08	1.81E+08	1.1	84.85	4B
4A	5.39E+08	5.39E+08	5.85E-12	97.67	4B
5A	55267229	55267256	0.002	92.86	6B
2A	67599188	67599256	7.38E-22	94.20	5B
4A	5.59E+08	5.59E+08	1.85E-10	80.88	4B
4A	5.62E+08	5.62E+08	4.93E-08	89.13	4B
4A	5.7E+08	5.7E+08	4.3E-08	100.00	4B
4A	5.74E+08	5.74E+08	1.74E-23	97.02	4B
4A	5.76E+08	5.76E+08	4.75E-11	100.00	4B
4A	5.78E+08	5.78E+08	1.62E-17	89.86	4B
7A	3.68E+08	3.68E+08	1.1	85.71	3B
4A	5.84E+08	5.84E+08	0.11	92.31	4B
5A	3.2E+08	3.2E+08	3.6	95.00	4B
4A	5.85E+08	5.85E+08	1.17E-06	77.61	4B
4A	5.86E+08	5.86E+08	6.91E-16	89.39	4B
6A	6.04E+08	6.04E+08	7.2	100.00	2B
4A	5.9E+08	5.9E+08	1.2E-07	100.00	4B
4A	5.92E+08	5.92E+08	2.75E-27	100.00	4B
1A	5177420	5177440	0.26	100.00	4B
6A	5.94E+08	5.94E+08	3.03E-09	93.02	5B
4A	3.42E+08	3.42E+08	0.007	96.00	3B
6A	7983653	7983710	1.09E-18	96.55	4B
4A	5.98E+08	5.98E+08	2.43E-09	95.00	4B
5A	2.19E+08	2.19E+08	5.12E-06	88.10	5B
4A	6.03E+08	6.03E+08	3.82E-19	93.75	4B
6A	78478749	78478805	3.34E-18	96.49	6B
6A	5.8E+08	5.8E+08	1.74E-23	97.02	6B
6A	64066821	64066858	3.45E-08	94.74	6B
2A	6.15E+08	6.15E+08	1.17E-06	84.91	2B
2A	5.87E+08	5.87E+08	1.4	91.30	6B
6A	37456187	37456213	0.29	88.89	6B
6A	37394584	37394652	6.06E-23	95.65	1B
6A	29319595	29319663	6.06E-23	95.65	6B
6A	24423278	24423340	9.55E-20	95.24	6B
6A	24232071	24232122	1.42E-15	96.15	6B
6A	23022649	23022715	7.38E-22	95.52	6B
4A	6.53E+08	6.53E+08	0.025	87.50	7B
6A	19779802	19779868	1.74E-23	97.02	6B
6A	18703889	18703957	1.42E-24	97.10	6B
6A	18733024	18733092	3.14E-20	92.75	6B

6A	15865937	15866005	1.17E-25	98.55	1B
3A	2.06E+08	2.06E+08	1.1	95.46	6B
6A	12959319	12959351	0.000325	90.91	6B
6A	12087411	12087465	5.26E-09	85.46	6B
6A	8624013	8624080	2.57E-21	94.12	6B
6A	8170912	8170979	4.97E-24	97.06	6B
6A	7300168	7300236	3.14E-20	92.75	6B

γ B genom				<i>T. aestivum</i> D genom	
start	end	e-érték	Azonossági %	Kr.	start
1.88E+08	1.88E+08	1.4E-18	91.43	4D	1.25E+08
1.85E+08	1.85E+08	2.53E-15	86.96	4D	1.22E+08
5.65E+08	5.65E+08	2.08E-16	90.63	7D	2.3E+08
4.32E+08	4.32E+08	9.43E-21	94.03	7D	3604528
86756726	86756768	7.49E-11	95.35	7D	4.59E+08
6.51E+08	6.51E+08	0.002	92.86	4D	47895039
3.43E+08	3.43E+08	8.84E-15	89.06	5D	1.37E+08
60084391	60084459	6.36E-23	95.65	4D	40954688
56560042	56560087	5.17E-08	89.13	4D	39200959
46957889	46957920	4.51E-08	100.00	4D	32355873
41745940	41746004	2.22E-22	96.92	4D	29179073
40438122	40438159	4.99E-11	100.00	4D	27561698
37574292	37574360	7.74E-22	94.20	4D	25401945
6.1E+08	6.1E+08	1.23E-06	84.91	1D	87744035
28313387	28313428	1.04E-08	92.86	4D	16427630
2.93E+08	2.93E+08	3.8	90.91	5D	26508414
27788736	27788796	3.52E-07	81.97	4D	15962429
25813224	25813289	3.29E-20	93.94	4D	15326209
1.87E+08	1.87E+08	0.62	84.85	3D	2.78E+08
23401826	23401856	6.53E-05	93.55	4D	12738327
20587918	20587986	2.89E-27	100.00	4D	10930742
16502547	16502589	6.79E-09	93.02	4D	8816955
4.94E+08	4.94E+08	0.01	82.93	6D	2.9E+08
3.41E+08	3.41E+08	0.31	95.83	7D	5.2E+08
11406180	11406238	3.29E-19	96.61	4D	6288040
9947734	9947773	2.55E-09	95.00	4D	5662574
3.98E+08	3.98E+08	1.87E-05	87.81	7D	53736793
557969	558036	5.22E-24	97.06	4D	1259362
1.35E+08	1.35E+08	2.7E-13	91.07	6D	61345902
6.56E+08	6.56E+08	1.82E-23	97.02	6D	4.34E+08
2E+08	2E+08	1.4	95.46	6D	53145293
2.52E+08	2.52E+08	3.52E-07	92.50	4D	4.44E+08
6.95E+08	6.95E+08	1.4	91.30	7D	1.55E+08
69552472	69552497	1.1	88.46	6D	76054934
6.84E+08	6.84E+08	1.01E-07	79.71	6D	32657620
53773064	53773132	8.84E-15	86.96	5D	3.76E+08
42813065	42813127	2.36E-21	96.83	4D	4.19E+08
42675570	42675616	7.73E-13	95.75	7D	4E+08
4.76E+08	4.76E+08	0.027	83.72	6D	24365870
3.51E+08	3.51E+08	6.69E-10	97.44	7D	6.35E+08
34050214	34050282	1.5E-24	97.10	6D	19731740
32333140	32333208	1.5E-24	97.10	6D	18017043
32301161	32301229	1.5E-24	97.10	6D	18000884

5.51E+08	5.51E+08	0.094	85.71	6D	14534222
24920551	24920588	4.22E-06	92.11	6D	13281099
21318181	21318213	8.03E-06	93.94	6D	11709947
19773483	19773535	1.07E-11	90.57	6D	10510793
21459134	21459201	5.22E-24	97.06	6D	8250210
14399372	14399439	5.22E-24	97.06	6D	7962314
14341104	14341166	3.08E-14	88.89	6D	7901923

DARtseq markerekkel detektált S

end	e-érték	Azonossági %	1M	1U	2M
1.25E+08	1.1E-18	91.43	-	0	-
1.22E+08	4.97E-23	95.65	-	0	-
2.3E+08	1.33E-17	91.18	-	-	-
3604546	3.1	100.00	-	0	-
4.59E+08	4.1	95.24	-	-	-
47895066	0.002	92.86	-	1	-
1.37E+08	0.9	100.00	-	-	-
40954756	1.17E-24	97.10	-	1	-
39200999	9.74E-10	95.12	-	-	-
32355904	3.44E-08	100.00	-	1	-
29179137	1.74E-22	96.92	-	0	-
27561734	1.97E-08	97.37	-	0	-
25402013	1.17E-24	97.10	-	-	-
87744062	0.9	89.29	-	-	-
16427671	1.86E-10	95.24	-	0	-
26508435	0.24	95.46	-	0	-
15962487	6.91E-15	91.53	-	-	-
15326274	5.67E-16	89.39	-	-	-
2.78E+08	0.13	100.00	-	0	-
12738357	1.2E-07	100.00	-	0	-
10930810	9.6E-26	98.55	-	0	-
8817015	1.07E-17	93.44	-	1	-
2.9E+08	4.69E-12	97.67	-	1	-
5.2E+08	0.067	92.00	-	0	-
6288099	5.9E-21	98.33	-	-	-
5662613	1.94E-09	95.00	-	-	-
53736833	0.09	80.49	-	0	-
1259430	6.06E-22	94.20	-	0	-
61345958	2.68E-18	96.49	-	1	-
4.34E+08	1.63E-16	89.55	-	0	-
53145334	1.53E-11	97.62	-	0	-
4.44E+08	0.000498	88.89	-	-	-
1.55E+08	0.000174	93.33	-	1	-
76054956	0.82	91.30	-	1	-
32657688	6.06E-22	94.20	-	-	-
3.76E+08	0.074	90.00	-	1	-
			-	1	-
4.19E+08	7.64E-20	95.24	-	0	-
4E+08	6.3	85.71	-	1	-
24365938	6.06E-22	94.20	-	-	-
6.35E+08	6.21E-09	97.30	-	-	-
19731808	2.58E-20	92.75	-	-	-
18017111	4.97E-23	95.65	-	1	-
18000952	9.6E-26	98.55	-	0	-

14534290	9.6E-26	98.55
13281124	0.071	96.15
11709979	6.13E-06	93.94
10510843	1.79E-07	86.54
8250277	4.08E-24	97.06
7962379	4.08E-24	98.49
7901990	2.11E-21	94.12

-	0	-
-	0	-
-	0	-
-	-	-
-	0	-
-	0	-
-	-	-

NP-k alélváltozatai

Izolált kromoszómák DNS mintái

2U 3M 3U 4M 4U 5M 5U 6M

-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
1	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
1	-	1	-	1	-	-	-
-	0	-	-	1	-	-	-
-	-	1	-	1	-	-	-
-	0	-	-	0	-	-	-
0	-	0	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
0	-	-	-	-	-	-	-
0	0	0	-	0	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
0	-	0	-	-	-	-	-
-	-	0	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	1	-	1	-	-	-
1	-	1	-	-	-	1	-
0	-	0	-	-	-	0	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
0	-	0	-	0	-	-	-
-	-	-	-	-	-	-	-
-	-	1	-	1	-	-	1
-	-	-	-	-	-	-	-
-	-	0	-	0	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	0	-	0	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	1	-	-	-	-	-
-	-	0	-	-	-	-	-
-	-	1	-	1	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	1	-	-	-	1	-
-	-	0	-	-	-	-	-

0	-	0	-	-	-	-	-
0	-	0	-	0	-	-	-
0	-	0	-	-	-	-	-
-	-	-	-	-	-	-	-
0	-	-	-	-	-	-	-
0	-	0	-	0	-	-	-
-	-	-	-	-	-	-	-

Teljes genomi DNS

6U 7M 7U Ae. comosa (MM) Ae. umbellulata (UU)

0	-	-	-	2
-	-	-	-	0
-	-	-	-	-
0	-	-	-	0
-	-	-	-	2
1	-	-	-	1
-	-	-	-	-
1	-	-	-	1
-	-	-	-	-
1	-	1	-	1
0	-	-	-	0
0	-	-	-	0
-	-	-	-	-
-	-	-	-	-
0	-	-	-	0
2	-	-	-	0
-	-	-	-	-
-	-	-	-	-
0	-	-	-	0
0	-	-	-	0
0	-	-	-	0
1	-	-	-	1
1	-	-	-	1
0	-	0	-	-
-	-	-	-	-
-	-	-	-	-
0	-	-	-	0
0	-	-	-	0
1	-	-	-	1
0	-	-	-	0
0	-	-	-	0
-	-	-	-	-
1	-	-	-	1
1	-	-	-	1
0	-	-	0	-
1	-	-	-	1
1	-	-	-	1
0	-	-	-	0
1	-	-	-	1
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
1	-	-	-	1
0	-	-	-	0

2	-	-	-	0
0	-	-	-	0
0	-	-	-	0
-	-	-	-	1
0	-	0	-	0
0	-	-	-	0
-	-	-	-	1

<i>Ae. biuncialis</i>				
Marker	Marker szekvencia	Kapcsoltsági csoport (LG)	Kr.	cM
1 mab4014	TGCAGATCGCG	LG8	7M	0
2 mab425	TGCAGGTCAAG	LG8	7M	1.8
3 mab338	TGCAGTGGGAG	LG8	7M	4.98
4 A2-mab3084	TGCAGACGGGCL	LG8	7M	7
5 mab3082	TGCAGTAATGA	LG8	7M	13.23
6 mab192	TGCAGCTGCCCL	LG8	7M	16.63
7 mab3162	TGCAGGGCGTGL	LG8	7M	27.42
8 mab3184	TGCAGCACCCCT	LG8	7M	33.92
9 mab4705	TGCAGATAGTACL	LG8	7M	34.36
10 fM2-mab2965	TGCAGATCAGC	LG8	7M	34.58
11 M12-mab5116	TGCAGGTACCA	LG8	7M	35.92
12 T-mab3540	TGCAGCAAGTT	LG8	7M	36.82
13 mab443	TGCAGGCTCGCL	LG8	7M	37.49
14 C-mab3845	TGCAGGGCCACL	LG8	7M	39.29
15 mab3783	TGCAGGCCATGL	LG8	7M	39.96
16 M12-mab4961	TGCAGCTGCTGL	LG8	7M	41.54
17 mab868	TGCAGATGCTG	LG8	7M	42.44
18 mab3128	TGCAGCTTCATTL	LG8	7M	42.66
19 mab4344	TGCAGGGTCAC	LG8	7M	44.91
20 mab4048	TGCAGCGGACCL	LG8	7M	48.32
21 M12-mab5200	TGCAGCAGAAAL	LG8	7M	50.35
22 U123-mab5716	TGCAGCCGCGCL	LG8	7M	58.3
23 M12-mab5163	TGCAGGCGCGCL	LG8	7M	64.31
24 mab1833	TGCAGGTGCTT	LG8	7M	64.75
25 mab3282	TGCAGCTGTCC	LG8	7M	68.62
26 M12-mab5214	TGCAGCGCCTC	LG8	7M	76.08
27 mab4665	TGCAGGTGCGAL	LG8	7M	76.97
28 mab2494	TGCAGCCCTAA	LG8	7M	78.54
29 mab3218	TGCAGGTTTAG	LG8	7M	82.41
30 mab434	TGCAGGTGGTGL	LG8	7M	84.89
31 mab3822	TGCAGCCTGCCL	LG8	7M	86.23
32 mab1527	TGCAGGAGGACL	LG8	7M	88.94
33 mab4831	TGCAGCCCCACL	LG8	7M	90.07
34 M12-mab5067	TGCAGCTGATT	LG8	7M	91.19
35 mab2305	TGCAGTCCTCC	LG8	7M	92.31
36 mab3636	TGCAGCTGGTGL	LG8	7M	92.98
37 mab3550	TGCAGTGGACGL	LG8	7M	96.15
38 mab584	TGCAGGACCAT	LG8	7M	98.4
39 mab4215	TGCAGCAGGAT	LG8	7M	103.44
40 mab324	TGCAGTGCACGL	LG8	7M	103.88
41 mab3104	TGCAGCGCGACL	LG8	7M	106.83
42 mab3224	TGCAGCGCGACL	LG8	7M	107.5
43 mab3364	TGCAGGACGTGL	LG8	7M	108.85
44 mab498	TGCAGGTGCGAL	LG8	7M	111.81

45 fU1-T-mab767	TGCAGGTCGGCLG8	7M	112.03
46 mab4139	TGCAGAGAGGCLG8	7M	115.43
47 mab1283	TGCAGAAAATGLG8	7M	118.37
48 fU1-mab694	TGCAGCGCAGCLG8	7M	119.71
49 mab4129	TGCAGGACGCCLG8	7M	123.82
50 mab1241	TGCAGCTCCAGLG8	7M	125.39

Legjobb BLASTn találat

T. aestivum A genom

Kr.	start	end	e-érték	Azonossági %
7A	7773196	7773256	1.09E-18	95.08
4A	7.33E+08	7.33E+08	0.048	84.62
7A	8376302	8376359	6.84E-14	91.38
7A	8530345	8530409	8.99E-21	95.39
4A	7.31E+08	7.31E+08	3.14E-20	92.75
4A	7.28E+08	7.28E+08	6.02E-16	90.48
7A	19177772	19177799	0.000163	96.43
4A	6.64E+08	6.64E+08	8.6E-08	94.60
5A	5.25E+08	5.25E+08	3.35E-07	84.62
4A	6.51E+08	6.51E+08	7.38E-22	95.52
7A	1.66E+08	1.66E+08	3.82E-19	91.30
6A	65063100	65063131	2.23E-05	93.75
7A	6.21E+08	6.21E+08	7.76E-09	94.87
7A	19960293	19960345	1.19E-10	88.68
4A	5.61E+08	5.61E+08	1.89E-07	92.86
7A	6.43E+08	6.43E+08	1.42E-24	97.10
7A	6.44E+08	6.44E+08	1.33E-18	92.54
7A	6.47E+08	6.47E+08	1.79E-05	87.81
7A	1.51E+08	1.51E+08	0.73	100.00
7A	6.53E+08	6.53E+08	0.000488	87.18
7A	6.61E+08	6.61E+08	3.82E-19	91.30
7A	6.64E+08	6.64E+08	1.17E-25	98.55
5A	6.17E+08	6.17E+08	1.17E-25	98.55
7A	99673034	99673092	0.000606	77.42
7A	6.71E+08	6.71E+08	0.000049	89.19
7A	6.72E+08	6.72E+08	1.98E-16	91.94
7A	6.74E+08	6.74E+08	1.09E-19	92.75
1A	4.56E+08	4.56E+08	3.8	100.00
7A	6.8E+08	6.8E+08	0.024	92.31
1A	5.92E+08	5.92E+08	0.004	86.49
7A	6.81E+08	6.81E+08	5.85E-16	93.10
5A	7.05E+08	7.05E+08	0.31	100.00
6A	6.04E+08	6.04E+08	6.91E-16	88.24
4A	4.1E+08	4.1E+08	3.8	84.38
7A	6.85E+08	6.85E+08	6.06E-23	95.65
7A	6.83E+08	6.83E+08	1.04E-17	98.15
6A	3.4E+08	3.4E+08	3.6	95.00
7A	6.9E+08	6.9E+08	0.007	96.00
7A	6.93E+08	6.93E+08	1.17E-25	98.55
6A	2.36E+08	2.36E+08	3.8	100.00
7A	6.94E+08	6.94E+08	1.17E-16	98.08
7A	6.94E+08	6.94E+08	1.42E-15	96.15
7A	6.94E+08	6.94E+08	2.24E-12	93.88
7A	6.97E+08	6.97E+08	4.97E-24	97.06

T. aestivum B genom

Kr.	start
5B	6.06E+08
3B	4.41E+08
1B	3.5E+08
3B	6.76E+08
5B	5.3E+08
6B	6603266
2B	25070096
2B	1.09E+08
1B	3.81E+08
7B	1.28E+08
4B	3.71E+08
7B	5.83E+08
7B	6.01E+08
2B	5.77E+08
3B	6.07E+08
7B	6.08E+08
7B	6.12E+08
7B	7.24E+08
7B	6.17E+08
7B	6.27E+08
7B	6.33E+08
5B	6.1E+08
7B	51059879
7B	6.42E+08
7B	6.48E+08
7B	6.5E+08
7B	6.59E+08
7B	6.63E+08
2B	1.42E+08
7B	6.65E+08
7B	6.66E+08
7B	23317360
3B	6.73E+08
7B	6.69E+08
7B	6.67E+08
7B	6.67E+08
7B	6.75E+08
7B	6.8E+08
7B	6.8E+08
7B	6.83E+08
7B	6.82E+08
7B	6.83E+08
7B	6.87E+08

7A	6.97E+08	6.97E+08	2.75E-27	100.00	7B	6.87E+08
7A	6.97E+08	6.97E+08	0.004	83.33	7B	6.9E+08
4A	2.46E+08	2.46E+08	0.25	95.65	4B	6.6E+08
7A	7E+08	7E+08	8.01E-05	82.98	7B	6.95E+08
7A	7.04E+08	7.04E+08	9.23E-19	98.21	7B	7.02E+08
6A	1.58E+08	1.58E+08	5.31E-11	84.38	7B	7.49E+08

			<i>T. aestivum</i> D genom			
end	e-érték	Azonosság gi %	Kr.	start	end	e-érték
6.06E+08	2.53E-14	94.34	7D	6793449	6793509	2.06E-20
4.41E+08	7.5	86.67	1D	3.84E+08	3.84E+08	1.6
3.5E+08	0.001	86.84	7D	7449375	7449432	6.67E-13
6.76E+08	6.79E-10	83.08	7D	7495631	7495694	1.63E-16
			7D	10494678	10494731	1.17E-05
5.3E+08	1	96.00	2D	5.93E+08	5.93E+08	0.22
6603293	0.000171	96.43	7D	18811701	18811728	0.00013
25070130	0.024	85.71	7D	48823924	48823960	6.88E-08
1.09E+08	3.52E-07	86.00	6D	2.97E+08	2.97E+08	9.6E-26
3.81E+08	8.84E-15	88.06	7D	43199806	43199872	1.42E-23
1.28E+08	3.29E-20	92.75	7D	1.65E+08	1.65E+08	3.14E-19
3.71E+08	0.51	100.00	5D	3.1E+08	3.1E+08	4.8
5.83E+08	8.15E-09	94.87	7D	5.4E+08	5.4E+08	7.57E-08
6.01E+08	1.09E-17	98.15	7D	5.54E+08	5.54E+08	1.96E-19
5.77E+08	9.01E-12	92.16	7D	5.05E+08	5.05E+08	3.12E-16
6.07E+08	6.36E-23	95.65	7D	5.58E+08	5.58E+08	6.06E-22
6.08E+08	8.84E-15	88.06	7D	5.59E+08	5.59E+08	8.99E-20
6.12E+08	6.54E-05	85.71	7D	5.62E+08	5.62E+08	3.59E-13
7.24E+08	9.3	91.30	7D	5.64E+08	5.64E+08	3.03E-17
6.17E+08	6.67E-09	97.30	7D	5.66E+08	5.66E+08	2.93E-06
6.27E+08	7.25E-16	86.67	7D	5.71E+08	5.71E+08	2.58E-20
6.33E+08	1.23E-25	98.55	7D	5.74E+08	5.74E+08	1.17E-24
6.1E+08	6.36E-23	95.65	5D	4.94E+08	4.94E+08	9.6E-26
51059937	0.000636	77.42	7D	5.76E+08	5.76E+08	2.26E-27
6.42E+08	4.22E-06	89.74	7D	5.78E+08	5.78E+08	2.64E-07
6.48E+08	2.08E-16	91.94	7D	5.8E+08	5.8E+08	3.82E-18
6.5E+08	3.52E-07	81.43	7D	5.82E+08	5.82E+08	4.97E-23
6.59E+08	8.28E-09	89.58	7D	5.88E+08	5.88E+08	2.58E-20
6.63E+08	0.002	96.15	7D	5.89E+08	5.89E+08	2.9
1.42E+08	0.00031	82.61	2D	3.26E+08	3.26E+08	2.04E-05
6.65E+08	1.35E-11	87.93	7D	5.9E+08	5.9E+08	6.95E-14
6.66E+08	0.000015	86.36	7D	5.9E+08	5.9E+08	3.35E-06
23317427	5.22E-24	97.06	7D	5.91E+08	5.91E+08	4.08E-24
6.73E+08	4.29E-06	80.00	5D	51076563	51076584	3.1
6.69E+08	6.36E-23	95.65	7D	5.93E+08	5.93E+08	4.97E-23
6.67E+08	6.9E-14	92.59	7D	5.92E+08	5.92E+08	1.02E-16
6.67E+08	3.8	95.00	5D	36935024	36935043	2.9
6.75E+08	0.088	92.00	7D	5.96E+08	5.96E+08	0.00013
6.8E+08	2.89E-27	100.00	7D	6.01E+08	6.01E+08	2.26E-27
6.8E+08	1.5E-24	97.10	7D	6.01E+08	6.01E+08	4.97E-23
6.83E+08	1.49E-15	96.15	7D	6.02E+08	6.02E+08	1.14E-15
6.82E+08	1.49E-15	96.15	7D	6.02E+08	6.02E+08	1.14E-15
6.83E+08	4.53E-15	97.96	7D	6.03E+08	6.03E+08	1.88E-12
6.87E+08	1.5E-24	97.10	7D	6.04E+08	6.04E+08	1.17E-24

6.87E+08	1.23E-25	98.55	|7D	6.04E+08	6.04E+08	9.6E-26
6.9E+08	1.7E-08	82.76	|7D	6.06E+08	6.06E+08	2.2E-18
6.6E+08	0.27	89.29	|7D	45067712	45067756	0.002
6.95E+08	2.57E-11	93.62	|7D	6E+08	6E+08	2.07E-11
7.02E+08	9.69E-19	98.21	|7D	6.13E+08	6.13E+08	3.83E-16
7.49E+08	7.74E-22	94.20	|7D	6.32E+08	6.32E+08	1.17E-24

DArTseq markerekkel detektált SNP-k alélváltozatai

Izolát

Azonossági %

	1M	1U	2M	2U	3M	3U
96.72	-	-	-	-	-	-
88.89	-	-	-	-	-	-
89.66	-	-	-	-	-	-
90.63	-	-	-	-	-	-
81.48	-	-	1	-	2	-
100.00	-	-	-	-	-	-
96.43	-	-	-	-	-	-
94.60	1	-	1	-	1	-
98.55	-	-	-	-	0	-
97.02	-	-	-	-	-	-
91.30	-	-	-	-	1	-
95.00	0	-	0	-	0	-
94.60	0	-	0	-	0	-
100.00	-	0	0	-	-	0
98.04	-	-	0	-	-	-
94.20	0	-	-	-	0	-
92.75	0	-	-	-	0	-
100.00	0	-	0	-	0	-
96.36	1	-	1	-	1	-
94.12	-	-	0	-	0	-
92.75	1	-	1	-	1	-
97.10	-	-	-	-	-	-
98.55	-	-	-	-	-	-
100.00	-	-	-	-	1	-
92.31	-	-	-	-	-	-
93.55	-	-	-	-	0	-
95.65	1	-	1	-	1	-
92.75	-	-	-	-	-	-
100.00	-	-	-	-	0	-
83.33	-	-	-	-	-	-
88.71	0	-	-	-	0	-
79.37	-	-	0	-	0	-
97.06	-	-	0	-	0	-
95.46	-	-	-	-	-	-
95.65	-	-	-	-	1	-
96.30	0	-	-	-	0	-
95.00	1	-	1	-	1	-
100.00	-	-	-	-	-	-
100.00	-	-	0	-	0	-
95.65	-	-	0	-	0	-
96.15	-	-	-	-	-	-
96.15	-	-	0	-	0	-
93.88	-	-	-	-	-	-
97.10	-	-	-	-	-	-

98.55
100.00
80.00
93.62
94.64
97.10

-	-	-	-	-	-
0	-	0	-	0	-
0	-	0	-	0	-
-	-	-	-	0	-
-	-	-	-	1	-
-	-	-	-	0	-

t kromoszómák DNS mintái

4M 4U 5M 5U 6M 6U 7M 7U

-	-	1	-	-	-	1	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	0	-
1	-	1	-	-	-	1	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	1	-	-	-	1	-
-	-	0	-	-	-	0	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	1	-
-	-	0	-	-	-	0	-
0	-	0	-	-	-	0	-
0	0	0	0	-	0	0	0
-	-	-	-	-	-	0	-
-	-	-	-	-	-	0	-
-	-	0	-	-	-	0	-
-	-	0	-	-	-	0	-
1	-	1	-	-	-	1	-
-	-	0	-	-	-	0	-
-	-	1	-	-	-	1	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	1	-	-	-	1	-
-	-	-	-	-	-	-	-
-	-	0	-	-	-	0	-
-	-	1	-	-	-	1	-
-	-	-	-	-	-	-	-
-	-	0	-	-	-	0	-
-	-	0	-	-	-	0	-
-	-	-	-	-	-	-	-
-	-	0	-	-	-	0	-
0	-	0	-	-	-	0	-
-	-	0	-	-	-	0	-
-	-	-	-	-	-	-	-
-	-	1	-	-	-	1	-
0	-	0	-	0	-	0	-
-	-	1	-	-	-	1	-
-	-	-	-	-	-	-	-
-	-	0	-	-	-	0	-
0	-	0	-	-	-	2	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	0	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-

-	-	-	-	-	-	-	-
-	-	0	-	-	-	0	-
-	-	0	-	-	-	0	-
-	-	-	-	-	-	0	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-

Teljes genomi DNS
 Ae. comosa (MM) Ae. umbellulata (UU)

1	-
-	-
-	-
0	-
1	-
-	-
-	-
1	-
0	-
-	-
1	-
-	-
0	-
0	0
-	-
0	-
0	-
0	-
1	-
0	-
1	-
-	-
-	-
1	-
-	-
0	-
1	-
-	-
0	-
-	-
0	-
0	-
0	-
-	-
1	-
0	-
1	-
-	-
0	-
0	-
-	-
0	-
-	-
-	-

-	0
0	-
0	-
0	1
-	-
-	-

<i>Ae. biuncialis</i>				
Marker	Marker szekvencia	Kapcsoltsági csoport (LG)	Kr.	cM
1 mab4376	TGCAGGGGCTALG15		7U	0
2 mab2270	TGCAGGGAAATLG15		7U	1.12
3 mab317	TGCAGGCCAAGLG15		7U	2.01
4 mab3954	TGCAGCAGCGCLG15		7U	2.68
5 mab340	TGCAGTGGAGALG15		7U	4.93
6 M12-mab5184	TGCAGGCCGGTCLG15		7U	8.57
7 mab339	TGCAGGTCACCLG15		7U	10.14
8 mab4154	TGCAGATCTTG LG15		7U	11.26
9 mab3110	TGCAGCGTTGCLG15		7U	13.06
10 mab3316	TGCAGCTCGTC LG15		7U	13.95
11 mab3868	TGCAGCAAGAALG15		7U	14.39
12 mab2623	TGCAGCAGATC LG15		7U	19.91
13 mab3188	TGCAGCCACCTLG15		7U	25.43
14 mab1173	TGCAGCACCTLG15		7U	26.32
15 mab623	TGCAGTCTTAG(LG15		7U	31.61
16 mab2293	TGCAGAAACGALG15		7U	32.73
17 mab4430	TGCAGACTCTC/LG15		7U	36.62
18 mab4200	TGCAGGTCGGCLG15		7U	39.81
19 M12-mab5387	TGCAGATCCGC LG15		7U	41.84
20 mab1731	TGCAGCAGCTCLG15		7U	50.05
21 mab1157	TGCAGGCAGATLG15		7U	52.76
22 mab1223	TGCAGCAGCGCLG15		7U	56.88
23 M12-mab5182	TGCAGCGGGC(LG15		7U	57.55
24 A-mab3255	TGCAGATCAGC/LG15		7U	62.38
25 M12-mab5039	TGCAGAGCGTCLG15		7U	66.97
26 mab925	TGCAGGACGTGLG15		7U	77.24
27 mab1982	TGCAGCGGTGCLG15		7U	85.94
28 fM2-mab2966	TGCAGGTCGAGLG15		7U	96.66
29 fM2-mab2968	TGCAGGGACATLG15		7U	100.35
30 fU1-mab684	TGCAGTTGAGT LG15		7U	108.93
31 mab1006	TGCAGTAGGGCLG15		7U	111.46
32 mab1528	TGCAGGCTCGGLG15		7U	118.07
33 M12-mab5397	TGCAGTCGCTC LG15		7U	123.59
34 mab3761	TGCAGCCTCAT/LG15		7U	127.01
35 M12-mab4851	TGCAGTCTGAA/LG15		7U	127.91
36 fM2-mab3035	TGCAGTCTTGG LG15		7U	129.49
37 mab478	TGCAGGTTTGC LG15		7U	131.98
38 M12-mab5072	TGCAGAAATGCLG15		7U	135.87
39 mab866	TGCAGCAGACTLG15		7U	137.67
40 mab194	TGCAGTTTCTCALG15		7U	140.85
41 M12-mab5149	TGCAGCCCGCCLG15		7U	150.6
42 mab195	TGCAGCTCCTG LG15		7U	152.41
43 mab3840	TGCAGTGACTT(LG15		7U	160.09
44 mab1472	TGCAGCCCGCCLG15		7U	160.53

45 mab1400	TGCAGGATGCALG15	7U	160.75
46 mab3627	TGCAGCTCCGCLG15	7U	164.61
47 mab4542	TGCAGCCGCTGLG15	7U	166.63
48 fU1-mab754	TGCAGCAGCGCLG15	7U	167.97
49 mab170	TGCAGCATCAT LG15	7U	169.31
50 mab144	TGCAGCCGCCCLG15	7U	174.91
51 fU1-mab715	TGCAGGACCGCLG15	7U	177.42
52 mab644	TGCAGAGTAGALG15	7U	179.7
53 mab1859	TGCAGGCATCALG15	7U	184.27
54 mab1887	TGCAGGTGGCCLG15	7U	186.99
55 fU1-mab710	TGCAGCCGCGCLG15	7U	189.7
56 fU1-mab792	TGCAGCCCAAALG15	7U	194.52
57 mab2115	TGCAGCACGTGLG15	7U	200.3

Legjobb BLASTn találat

T. aestivum A genom

Kr.	start	end	e-érték	Azonossági %
7A	76935423	76935460	2.02E-09	97.37
2A	3.77E+08	3.77E+08	1.1	86.67
7A	71144991	71145059	3.82E-19	91.30
7A	69891854	69891877	0.17	95.83
7A	68185898	68185958	2.4E-08	82.09
7A	66923101	66923169	1.98E-16	88.41
7A	64624767	64624835	1.42E-24	97.10
7A	63723894	63723920	0.000568	96.30
7A	62753479	62753536	4.22E-17	94.83
7A	61788582	61788633	1.17E-16	98.08
7A	58234907	58234975	1.17E-25	98.55
6A	5.29E+08	5.29E+08	1.1	95.65
7A	50266229	50266263	6.88E-08	97.14
7A	51661546	51661607	3.23E-19	95.16
4A	6.6E+08	6.6E+08	2.92E-06	94.12
4A	6.58E+08	6.58E+08	1.42E-24	97.10
7A	44447225	44447291	1.74E-23	97.02
4A	6.5E+08	6.5E+08	2.45E-19	100.00
4A	6.49E+08	6.49E+08	6.06E-23	95.65
4A	6.87E+08	6.87E+08	7.38E-22	94.20
7A	66751802	66751852	2.02E-13	94.12
4A	6.91E+08	6.91E+08	2.11E-14	91.53
7A	33369219	33369243	0.007	96.00
2A	3.08E+08	3.08E+08	3.44E-05	93.94
4A	5349223	5349288	1.33E-18	92.42
4A	7.01E+08	7.01E+08	1.13E-08	90.91
7A	26303410	26303460	2.02E-13	94.12
4A	7.07E+08	7.07E+08	1.92E-15	91.67
7A	19972839	19972861	0.31	95.65
7A	19372161	19372217	2.41E-15	92.98
4A	7.14E+08	7.14E+08	4.81E-10	90.00
5A	1.23E+08	1.23E+08	0.31	75.86
7A	14194442	14194497	9.9E-07	79.03
7A	13789545	13789613	6.06E-23	95.65
6A	72973436	72973502	2.11E-22	97.02
7A	13178419	13178443	0.084	92.00
2A	7.14E+08	7.14E+08	8.42E-15	89.06
4A	7.3E+08	7.3E+08	6.9E-07	86.28
7A	8691775	8691843	2.75E-27	100.00
7A	2002285	2002339	3.22E-18	98.18
7A	2002557	2002617	2.11E-21	98.36
3A	69249635	69249683	3.35E-12	93.88
7A	6.08E+08	6.08E+08	1.1	87.50

T. aestivum B genom

Kr.	start
7B	12966400
7B	12951904
7B	9751432
7B	7335708
6B	35411539
7B	4595842
7B	2895166
1B	3.19E+08
7B	6.61E+08
5B	32137035
7B	28060674
7B	7.45E+08
1B	6.03E+08
2B	25070072
3B	53856905
4B	36002466
2B	7.66E+08
3B	4.22E+08
3B	59328029
3B	6.42E+08
6B	4.03E+08
1B	6.81E+08
6B	14625377
3B	1.16E+08
7B	50505764
3B	4.11E+08
1B	3.04E+08
7B	7E+08
3B	4.11E+08
4B	4.75E+08
6B	3.58E+08
5B	1.51E+08
6B	6.22E+08
5B	4.12E+08
7B	6.46E+08
1B	2.66E+08
5B	37501423
2B	1.18E+08
3B	4.31E+08
3B	96358962
3B	89680784

3A	65829554	65829622	3.82E-19	91.30	3B	87718715
5A	55385181	55385205	0.002	100.00	3B	1.69E+08
7A	7.08E+08	7.08E+08	0.000606	91.18	3B	64716664
1A	1.41E+08	1.41E+08	1.04E-17	98.15	4B	3.41E+08
3A	48664939	48665005	7.38E-22	95.52	3B	60367848
3A	40913369	40913437	6.06E-23	95.65	3B	51944404
3A	40181210	40181273	1.42E-24	100.00	3B	50408708
3A	38321256	38321284	0.000568	93.10	3B	49391512
3A	31228341	31228407	4.66E-18	91.05	2B	7.41E+08
3A	28216731	28216778	7.41E-12	93.75	3B	32948632
3A	27544428	27544482	9.29E-13	90.91	3B	31799717
3A	19969158	19969186	0.002	93.10	5B	4.62E+08
3A	21325595	21325663	4.36E-12	84.06	3B	22085902

			<i>T. aestivum</i> D genom			
end	e-érték	Azonosság gi %	Kr.	start	end	e-érték
12966437	4.99E-11	100.00	7D	70820342	70820379	1.97E-08
12951958	2.53E-15	94.55	7D	70048272	70048340	3.14E-19
9751500	2.89E-27	100.00	7D	68791217	68791285	1.17E-24
7335751	1.56E-08	90.91	7D	65612879	65612924	4.14E-08
35411560	0.082	100.00	7D	64379878	64379937	1.68E-15
4595910	6.36E-23	95.65	7D	63921758	63921822	1.74E-22
2895234	1.5E-24	97.10	7D	60302435	60302503	9.6E-26
3.19E+08	0.025	100.00	7D	59105605	59105632	0.00013
6.61E+08	3.4E-12	89.29	7D	5.88E+08	5.88E+08	3.16E-11
32137067	0.056	88.24	3D	5.45E+08	5.45E+08	3.97E-15
28060738	1.01E-07	82.61	7D	54759330	54759398	1.17E-24
7.45E+08	4.89E-18	91.05	7D	53406068	53406134	6.06E-22
6.03E+08	3.74E-05	91.43	7D	47634013	47634047	5.51E-08
25070130	4.72E-11	86.44	7D	48823924	48823985	6.09E-21
			7D	46599139	46599172	9.95E-05
53856929	0.002	100.00	7D	45591846	45591914	6.06E-22
36002532	1.08E-13	86.57	7D	43637434	43637500	3.14E-19
7.66E+08	1.02E-11	93.75	7D	42836645	42836698	1.96E-19
4.22E+08	1.2	92.59	7D	41693799	41693867	6.06E-22
59328074	0.002	82.61	7D	38005977	38006035	6.91E-15
6.42E+08	1.34E-09	88.24	3D	4.81E+08	4.81E+08	1.62E-13
4.03E+08	0.83	85.71	7D	34081356	34081412	5.89E-14
6.81E+08	1.1	95.24	4D	4.29E+08	4.29E+08	0.82
14625418	1.04E-05	88.10	2D	5.42E+08	5.42E+08	6.49E-07
1.16E+08	1.71E-17	90.91	7D	29676254	29676319	9.6E-26
50505790	0.039	92.59	7D	29041917	29041959	1.34E-06
4.11E+08	2.3	95.46	7D	25353069	25353115	5.64E-13
3.04E+08	0.91	100.00	6D	1.43E+08	1.43E+08	2.4
7E+08	0.32	95.65	7D	19720748	19720784	0.25
4.11E+08	1.2	95.65	7D	18926748	18926815	2.11E-21
4.75E+08	3	89.66	7D	18000877	18000930	1.64E-08
3.58E+08	1.2	92.59	7D	26364379	26364446	1.1E-18
1.51E+08	0.28	86.84	4D	48475042	48475070	0.21
6.22E+08	4	100.00				
4.12E+08	1.31E-12	89.39	1D	3.93E+08	3.93E+08	2.75E-07
			7D	13676461	13676485	0.006
6.46E+08	5.58E-11	84.62	5D	4.49E+08	4.49E+08	1.85E-09
2.66E+08	0.19	92.86	7D	9300999	9301048	1.14E-15
37501470	1.95E-10	91.67	7D	8252743	8252811	2.26E-27
1.18E+08	3.62E-05	83.33	7D	3640127	3640181	1.34E-15
4.31E+08	0.077	90.00	7D	3795111	3795170	3.06E-18
96359008	1.01E-12	95.75	3D	61043329	61043375	3.27E-11
89680850	2.08E-16	89.55	3D	56844125	56844192	4.66E-17

87718776	2.08E-16	91.94	3D	56282448	56282516	1.17E-24
1.69E+08	0.027	78.18	4D	4.32E+08	4.32E+08	1.25E-11
64716732	7.74E-22	94.20	3D	41685661	41685729	1.17E-24
3.41E+08	3.57E-11	90.39	3D	2.21E+08	2.21E+08	4.32E-15
60367916	1.5E-24	97.10	3D	37970687	37970755	4.97E-23
51944472	6.36E-23	95.65	3D	29967498	29967566	4.97E-23
50408772	4.28E-25	100.00	3D	29610265	29610329	1.74E-22
49391540	0.000596	93.10	3D	28977926	28977954	0.000455
7.41E+08	0.094	84.09	3D	21707696	21707764	1.17E-24
32948679	1.5E-14	97.92	3D	20562327	20562374	1.21E-14
31799769	5.05E-10	90.74	3D	19881482	19881538	6.11E-14
4.62E+08	0.022	100.00	3D	16639814	16639842	0.064
22085934	0.094	88.24	3D	14947061	14947129	9.6E-26

DArTseq markerekkel detektált SNP-k alélváltozatai

Izolát

Azonossági %

	1M	1U	2M	2U	3M	3U
94.74	-	1	-	1	-	1
91.30	-	-	-	-	-	-
97.10	-	-	-	-	-	-
89.13	-	-	-	-	-	-
92.06	-	-	-	-	-	-
96.92	-	-	0	-	-	-
98.55	-	-	-	-	-	-
96.43	-	-	-	-	-	-
87.72	-	-	-	-	-	-
96.08	-	0	-	0	-	0
97.10	-	-	-	-	-	-
95.52	-	-	-	-	-	-
97.14	-	-	-	1	-	1
96.77	-	-	-	-	-	-
91.18	-	-	-	1	-	-
94.20	-	-	-	-	-	-
92.54	-	-	-	-	-	-
100.00	-	1	-	-	-	-
94.20	-	-	-	-	-	-
91.53	-	-	-	-	-	-
94.12	-	1	-	-	-	1
91.23	-	0	-	0	-	0
-	-	-	-	-	-	-
100.00	-	-	-	-	-	-
90.24	-	0	-	-	-	-
100.00	-	1	0	1	-	1
88.37	-	0	-	-	0	0
95.75	-	1	-	-	-	1
100.00	-	-	-	-	-	-
83.78	-	0	-	-	-	0
94.12	-	-	-	-	-	-
85.19	-	-	-	-	-	-
92.65	-	-	-	-	-	-
89.66	-	-	-	-	-	-
-	-	0	-	-	-	0
82.81	-	-	-	-	-	-
96.00	-	-	-	1	-	1
85.71	-	-	-	-	-	-
98.00	-	-	-	-	-	-
100.00	-	-	-	-	-	-
94.55	-	-	-	-	-	-
95.00	-	1	-	1	-	1
93.62	-	-	-	-	-	0
89.71	-	1	-	-	-	1

97.10
93.75
97.10
94.44
95.65
95.65
96.92
93.10
97.10
97.92
91.23
89.66
98.55

-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	1	-	1	-	1
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	0	-	0	-	0
-	0	-	-	-	-
-	-	-	-	-	-
-	0	-	-	-	-
-	0	-	0	-	0
-	0	-	0	0	-

t kromoszómák DNS mintái

4M 4U 5M 5U 6M 6U 7M 7U

-	1	-	1	-	1	-	1
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	1	-	1	-	-	-	1
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	0
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	0	-	0	-	0	-	0
-	-	-	-	-	-	-	1
-	-	-	-	-	-	-	1
-	-	-	1	-	-	-	1
-	0	-	0	-	0	-	0
-	-	-	1	-	-	-	1
-	-	-	-	-	-	-	0
-	-	-	-	-	-	-	-
-	-	-	1	-	-	-	1
-	-	-	1	-	-	-	1
-	-	-	-	-	-	-	-
-	1	-	1	-	1	-	1
-	0	-	0	-	0	-	0
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	0	-	0	-	0	-	2
-	1	-	1	-	1	-	1
-	-	-	0	-	0	-	0
-	1	-	1	-	1	-	1
-	-	-	-	-	-	-	-
-	0	-	0	-	-	-	0
-	-	-	0	1	0	-	0
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	0	-	-	-	0
-	0	-	0	-	-	-	0
-	-	-	-	-	-	-	-
-	1	-	1	-	-	-	1
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	1	-	1	-	-	-	1
-	-	-	0	-	-	-	0
-	1	-	1	-	-	-	1

-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	1	-	1	-	1	-	1
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	0	-
-	0	-	0	-	0	-	0
-	0	-	0	-	0	-	0
-	-	-	0	-	-	-	0
-	-	-	0	-	-	-	0
-	-	-	0	-	0	-	0
-	0	-	0	-	-	-	0

Teljes genomi DNS

Ae. comosa (MM) Ae. umbellulata (UU)

-	1
-	-
-	-
-	1
-	-
-	-
-	0
-	1
-	-
-	0
-	1
-	1
-	1
-	0
-	1
-	0
-	-
-	1
-	1
-	-
-	1
-	0
-	-
-	1
-	0
-	1
-	0
-	1
-	-
-	-
-	0
-	0
-	-
-	-
-	1
-	-
-	-
-	-
-	1
-	0
-	1

-	-
-	-
-	-
-	1
-	-
-	-
-	-
-	2
-	0
-	-
-	0
-	0
-	0
-	0