

Table 1 Genome-wide homology of 8,210 mapped wheat EST sequences with brachypodium chromosomes

Wheat homoeologous group	No. of mapped wESTs used in BLAST analysis	No. of wESTs showing homology with brachypodium genome		No. of wESTs placed on consensus chromosome			No. of wESTs syntenic with brachypodium chromosome					
		Sub-genome	Total	Bin-mapped	Chromosome	Chrom. arm	ESTs	Bd1	Bd2	Bd3	Bd4	Bd5
1	1,123	A	197	177	WC1	S	46	8	31	7	1	-
		B	224	207		L	123	8	73	39	1	1
		D	230	208								
			651	592			169	16	104	46	2	1
2	1,288	A	238	215	WC2	S	83	60	4	3	5	11
		B	263	241		L	131	20	6	5	7	93
		D	278	245								
			799	701			214	80	10	8	12	104
3	1,283	A	263	230	WC3	S	72	2	57	7	4	2
		B	289	266		L	140	13	114	9	2	2
		D	264	238								
			816	734			212	15	171	16	6	4
4	1,190	A	261	252	WC4	S	54	40	-	2	8	3
		B	222	213		L	109	103	3	1	3	-
		D	231	227								
			714	692			163	143	3	3	11	3
5	1,247	A	322	301	WC5	S	59	6	4	6	42	1
		B	335	315		L	196	69	6	15	101	5
		D	282	268								
			939	884			255	75	10	21	143	6
6	945	A	229	216	WC6	S	64	10	7	43	3	1
		B	241	223		L	129	10	4	109	6	-
		D	207	192								
			677	631			193	20	11	152	9	1
7	1,134	A	210	178	WC7	S	89	44	4	30	5	3
		B	197	180		L	85	54	4	24	5	1
		D	225	212								
			632	570			174	98	8	54	10	4
Total	8,210		5,208	4,804			1,380	447	317	300	193	123