

Accessory Publication

Supplementary Tables

Table S1. Cultivars used in the current study along with pedigrees and LMA phenotype according to screening assay developed by Mrva and Mares (2002)

Phenotyping kindly provided by Dr Kolumbina Mrva (University of Adelaide, SA)

Cultivar	Pedigree	LMA
Ajana	Blade/2*Kulin	+
Amery	Lr 21 - Sr X/2*Shortim//3*Bodallin	+
Brookton	Torres/Cranbrook/4/Emblem/P1640//Nuri70(76W:596)/3/Cranbrook	+
Carnamah	RAC529 1CH(Bolsena)/5/(77W:660)Siete Cerros/3/(XBVT223)Chile-1B//Insignia/Falcon(72W05-18)/4/(72W12-67)M123/Mexico(AWX011.G.48.2)/3/(XBVT221)Chile-1B//Insignia//Falcon	+
Cranbrook	WE/Ciano'S//Noroeste 66/3/Zambezi	+
Datatine	3Ag3/3*Halberd//4*Tincurrin	+
GBA Shenton	unknown	+
Huntsman	Maris Huntsman = ((CI 12633*(Cappelle Desprez)5)*Hybrid 46)*Professeur Marchal	+
Kennedy	Chanate//Mengavi/Mexico-8156/3/Ciano 'S'/Gallo//Bezostaja-2/4/(RAC309S)Raven Derivative	+
Lerma52	Mentana*3/Kenya 324	+
Pastor	Pfau/Seri M 82//Bobwhite	+
RAC655	Chanate//Mengavi/Mexico-8156/3/Ciano 'S'/Gallo//Bezostaja-2/4/(RAC309S)Raven Derivative	+
Reeves	Bodallin//(69W058-6, Hyden Sib)Gamenya/Inia 66	+
Rialto	Haven/Fresco	+
Super Seri-1,		
Super Seri-2 ^a	Seri = Kavkaz/Buho//Kalyansona/Yecora F-70-(Bluebird-2)	+
Westonia	Spica/Timgalen(QT2085-20)//Tosca(81R:1052,CO1190-203)/3/(84W127-501)Cranbrook//Jacup*2/Bobwhite	+
Veery1, Veery7	Veery = Kavkaz/Buho//Kalyansona/Yecora F-70-(Bluebird-2)	+
Veery2, Veery4,		
Veery8	Veery = Kavkaz/Buho//Kalyansona/Yecora F-70-(Bluebird-2)	-
Wyalkatchem	Machete/4/(W84-129*504) Gutha/3/Jacup*2/(11thISEPTON135) Iassul/H567-71	+
BD159	Jabiru/2*Millewa//Dx6-79RR(Millewa'S)/3/Aus10894/4*Condor	+
WAWHT2192	Pedigree commercial in confidence	+
GBA Ruby	unknown	+
Spica	Three Seas/Kamburico//Pusa 4/Flora	+
Chinese Spring	Chinese Spring	-
EGA Bonnie Rock	Sr9e.3*Warigal..3*Aroona(83Z:1048)/(82W:1097)3Ag3.4*Condor..3*Millewa.3. Bodallin	-
Sunco	SUN9E-27*4/3Ag14//WW15/3/3*Cook	-
EGA Eagle Rock	Sunelg/2*Blade	-
EGA2248	Madden/Bokal(70W18-14-2Starchy)/3/Lance//Eradu(79W:793)/4/(83W:1087)Matong*2//IRN 75-560	-
EGATammarin	Kalannie/Skorospelka.4*Lance:3*Bodallin (81Y:970)	-
Rock		
WAWHT2193	Pedigree commercial in confidence	-
Halberd	Scimitar/~Kenya C6042/~Bobin/2/	-
Kulin	Bodallin/2/~Gamenya/~Inia66	-
Suneca	Ciano//Spica/Amber Mutant Sonora-64	+
Calingiri	Chino/Kulin//Reeves	-
Spear	Sabre/~Mec 3/2/~Insignia	+

Table S2. The microsatellite primers used in the haplotype analysis. Microsatellite primer sequences were obtained from Röder *et al.* (1998) and Somers *et al.* (2004)

Note: the expected size (bp) is based on Chinese Spring deletion mapping

Primer name	Sequence (5'→3')	Chromosomal	size (bp)	Source
wmc581F	CATGTTGCCATCAAACCTCGC			Somers <i>et al.</i> 2004
wmc581R	GCTATTGACATGCAACTATGGAC	7BL	123	Somers <i>et al.</i> 2004
gwm611F	CATGGAAACACCTACCGAAA			Röder <i>et al.</i> 1998
gwm611R	CGTGCAAATCATGTGGTAGG	7BL	143-166	Röder <i>et al.</i> 1998
gwm577F	ATGGCATAATTTGGTGAAATTG			Röder <i>et al.</i> 1998
gwm577R	TGTTTCAAGCCCAACTTCTATT	7BL	164	Röder <i>et al.</i> 1998
wmc276F	GACATGTGCACCAGAATAGC			Somers <i>et al.</i> 2004
wmc276R	AGAAGAACTATTCGACTCCT	7BL	292	Somers <i>et al.</i> 2004
wmc273F	AGTTATGTATTCTCTCGAGCCTG			Somers <i>et al.</i> 2004
wmc273R	GGTAACCACTAGAGTATGTCCTT	7AL,7BL, 7DL	235,182,199	Somers <i>et al.</i> 2004
wmc557F	GGTGCTTGTTTCATACGGGCT			Somers <i>et al.</i> 2004
wmc557R	AGGTCCCTCGATCCGCTCAT	7BL	298	Somers <i>et al.</i> 2004
wmc10F	GATCCGTTCTGAGGTGAGTT			Somers <i>et al.</i> 2004
wmc10R	GGCAGCACCTCTATTGTCT	7BL	267	Somers <i>et al.</i> 2004
wmc526F	TCCCATTGGTTCACAAACTCG			Somers <i>et al.</i> 2004
wmc526R	GATGGTATCGCATTTCATCGGT	7BL	188	Somers <i>et al.</i> 2004
wmc70F	GGGGAGCACCTCTATTGTCTA			Somers <i>et al.</i> 2004
wmc70R	TAATGCTCCCAGGAGAGAGTCG	7BL	213	Somers <i>et al.</i> 2004
gwm146F	CCAAAAAACTGCCTGCATG			Somers <i>et al.</i> 2004
gwm146R	CTCTGGCATTGCTCCTTGG	7BL	174	Somers <i>et al.</i> 2004
435M3SSRF	ACGTGGTCAGGTTTTCTTG			BAC Ren_435M3
435M3SSRR	CACCAAAAGCATAGCAAGC	7BL	165	BAC Ren_435M3
gwm344F	CAAGGAAATAGGCGGTAAC			Röder <i>et al.</i> 1998
gwm344R	ATTTGAGTCTGAAGTTTGCA	7AL, 7BL	121	Röder <i>et al.</i> 1998
gwm264F	GAGAAACATGCCGAACAACA	1A, 1B	157	Röder <i>et al.</i> 1998
gwm264R	GCATGCATGAGAATAGGAAGT	7B, 3B	165, 226	Röder <i>et al.</i> 1998
gwm284F	AATGAAAAAACACTTGCGTGG			Röder <i>et al.</i> 1998
gwm284R	GCACATTTTCACTTTTCGGG	3B	121	Röder <i>et al.</i> 1998
gwm285F	ATGACCCTTCTGCCAAACAC			Röder <i>et al.</i> 1998
gwm285R	ATCGACCGGGATCTAGCC	3B	222	Röder <i>et al.</i> 1998
wmc500F	ATAGCATGTTGGAACAGAGCAC	1B, 2B	180, 155	Somers <i>et al.</i> 2004
wmc500R	CTTAGATGCAACTCTATGCGGT	3B, 7B, 4A	188,165,204	Somers <i>et al.</i> 2004
gwm566F	TCTGTCTACCCATGGGATTTG			Röder <i>et al.</i> 1998
gwm566R	CTGGCTTCGAGGTAAGCAAC	3B	131	Röder <i>et al.</i> 1998
wmc334F	CTCGAAGCAGGATGCATTTA			Somers <i>et al.</i> 2004
wmc334R	TCAAATTTTGGGATAGCGGG	3B	117	Somers <i>et al.</i> 2004
wmc505F	AGGGGAGGAAAACCTTGTAATC			Somers <i>et al.</i> 2004
wmc505R	ACGACCTACGTGGTAGTTCTTG	3A, 3B, 3D	115,133,90	Somers <i>et al.</i> 2004

Table S3. Polymorphism Index Content (PIC), number of alleles and chromosomal location for each of the SSR markers used in the haplotype analysis (based on 39 wheat cultivars)

Microsatellite	Chromosome	Alleles	PIC value
wmc581	7BL	4	0.71
gwm611	7BL	10	0.86
gwm577	7BL	8	0.84
wmc276	7BL	8	0.85
wmc273	7BL	7	0.89
wmc557	7BL	2	0.26
wmc10	7BL	4	0.56
wmc526	7BL	6	0.71
wmc70	7BL	3	0.54
gwm146	7BL	4	0.75
435m3	7BL	3	0.47
gwm344	7BL	4	0.69
gwm264	3B	3	0.59
gwm284	3B	5	0.58
gwm285	3B	6	0.71
wmc500	3B	3	0.47
gwm566	3B	5	0.66
wmc505	3B	6	0.74