

Table S1. Genetic correspondence between barley and other cereal genes controlling grain development.

Orthologs	Collinearity	Morex_ID	Accession number	Description	Reference
<i>HvGSN1</i>		HORVU.MOREX.r3.1HG0008520	Os05g0115800	Dual specificity phosphatase	[47]
<i>HvRSR1</i>		HORVU.MOREX.r3.1HG0012250	Os05g0121600	AP2-like ethylene-responsive transcription factor	[48]
<i>HvAPG</i>	yes	HORVU.MOREX.r3.1HG0018510	Os05g0139100	Basic helix-loop-helix transcription factor	[93]
<i>HvPPKL2</i>	yes	HORVU.MOREX.r3.1HG0019870	Os05g0144400	Serine/threonine-protein phosphatase	[73]
<i>HvTaPGS1</i>	yes	HORVU.MOREX.r3.1HG0021280	TraesCS1D02G094000	Transcription factor basic helix-loop-helix	[94]
<i>HvSRS3</i>	yes	HORVU.MOREX.r3.1HG0023370	Os05g0154700	Kinesin-like protein	[95]
<i>HvGSK2</i>		HORVU.MOREX.r3.1HG0030650	Os05g0207500	Kinase family protein	[96]
<i>HvAGSW1</i>		HORVU.MOREX.r3.1HG0036390	Os05g0323800	ABC1-like kinase	[97]
<i>HvBSK2</i>	yes	HORVU.MOREX.r3.1HG0052470	Os10g0571300	Serine/threonine-protein kinase BSK2	[49]
<i>HvSM1</i>	yes	HORVU.MOREX.r3.1HG0058550	Os05g0389000	AP2-like ethylene-responsive transcription factor	[52]
<i>HvLAC1</i>		HORVU.MOREX.r3.1HG0073500	Os05g0458600	Laccase	[98]
<i>HvSLG</i>		HORVU.MOREX.r3.1HG0076820	Os08g0562500	HXXXD-type acyl-transferase family protein	[53]
<i>HvO2</i>		HORVU.MOREX.r3.1HG0078350	Zm00001eb301570	Basic-leucine zipper (BZIP) transcription factor family	[99]
<i>Hvmyr1-1</i>		HORVU.MOREX.r3.1HG0081040	Zm00001eb354390	MYB-related transcription factor	[100]
<i>Hvincw1-1</i>		HORVU.MOREX.r3.1HG0087260	Zm00001eb242820	Cell wall invertase	[57]
<i>HvIKU2-1</i>		HORVU.MOREX.r3.1HG0088480	At3g19700	Leucine-rich repeat receptor-like protein kinase	[72]
<i>HvEF3.2</i>	yes	HORVU.MOREX.r3.1HG0095050	Os01g0566100	Early flowering 3	[101]
<i>HvSDG725</i>		HORVU.MOREX.r3.2HG0096180	Os02g0554000	Histone-lysine N-methyltransferase	[58]
<i>HvFZP</i>	yes	HORVU.MOREX.r3.2HG0114260	Os07g0669500	Ethylene-responsive transcription factor	[102]
<i>HvMADS87-1</i>		HORVU.MOREX.r3.2HG0119930	Os03g0582400	AGAMOUS-like MADS-box protein	[103]
<i>HvMADS87-2</i>		HORVU.MOREX.r3.2HG0119950	Os03g0582400	AGAMOUS-like MADS-box protein	[103]
<i>HvTaSus2-2B</i>	yes	HORVU.MOREX.r3.2HG0124890	TraesCS2B02G194200	Sucrose synthase	[104]
<i>HvDEP2</i>		HORVU.MOREX.r3.2HG0125030	Os07g0616000	Erect panicle 2 protein	[105]
<i>HvGW7</i>	yes	HORVU.MOREX.r3.2HG0126960	Os07g0603300	Longifolia protein	[106,107]
<i>HvGE</i>	yes	HORVU.MOREX.r3.2HG0127090	Os07g0603700	Cytochrome P450 protein	[108]
<i>HvBZR1</i>	yes	HORVU.MOREX.r3.2HG0131380	Os07g0580500	BES1/BZR1 homolog 1	[109]
<i>HvRPT2A-1</i>		HORVU.MOREX.r3.2HG0139190	At4g29040	26S protease regulatory subunit	[110]
<i>HvSPL13</i>	yes	HORVU.MOREX.r3.2HG0142950	Os07g0505200	Squamosa promoter-binding protein	[7]
<i>HvANT-1</i>		HORVU.MOREX.r3.2HG0154350	At4g37750	AP2-like ethylene-responsive transcription factor	[111]
<i>HvGIF1</i>	yes	HORVU.MOREX.r3.2HG0166450	Os04g0413500	Cell wall invertase	[112]
<i>HvTabas1-B1</i>	yes	HORVU.MOREX.r3.2HG0167220	TraesCS2B02G313700	Peroxioredoxin	[113]
<i>HvD11</i>		HORVU.MOREX.r3.2HG0174520	Os04g0469800	Cytochrome P450 protein	[114]
<i>HvCyclin-T1;3-1</i>		HORVU.MOREX.r3.2HG0176090	Os11g0157100	Cyclin family protein	[115]
<i>HvLABA1</i>	yes	HORVU.MOREX.r3.2HG0182190	Os04g0518800	Cytokinin riboside 5'-monophosphate phosphoribohydrolase	[116]
<i>HvEXPA10</i>		HORVU.MOREX.r3.2HG0185850	Os04g0583500	Expansin	[117]
<i>HvXIAO</i>	yes	HORVU.MOREX.r3.2HG0186650	Os04g0576900	Non-specific serine/threonine protein kinase	[118]

<i>Hv</i> nk1-1	yes	HORVU.MOREX.r3.2HG0187780	Zm00001eb073830	Zinc finger protein, putative	[119]
<i>Hv</i> SMG2	yes	HORVU.MOREX.r3.2HG0188270	Os04g0559800	Protein kinase	[120]
<i>Hv</i> SPL33		HORVU.MOREX.r3.2HG0194480	Os01g0116600	Elongation factor 1-alpha, putative	[121]
<i>Hv</i> Zm-INVINH1-1	yes	HORVU.MOREX.r3.2HG0196570	Zm00001eb072630	Invertase inhibitor	[122]
<i>Hv</i> Zm-INVINH1-2		HORVU.MOREX.r3.2HG0196590	Zm00001eb072630	Invertase inhibitor	[122]
<i>Hv</i> Zm-INVINH1-3		HORVU.MOREX.r3.2HG0196600	Zm00001eb072630	Invertase inhibitor	[122]
<i>Hv</i> Zm-INVINH1-4		HORVU.MOREX.r3.2HG0196610	Zm00001eb072630	Invertase inhibitor	[122]
<i>Hv</i> Zm-INVINH1-5		HORVU.MOREX.r3.2HG0196620	Zm00001eb072630	Invertase inhibitor	[122]
<i>Hv</i> Zm-INVINH1-6		HORVU.MOREX.r3.2HG0196630	Zm00001eb072630	Invertase/pectin methylesterase inhibitor family protein	[122]
<i>Hv</i> AP2		HORVU.MOREX.r3.2HG0204770	At4g36920	AP2-like ethylene-responsive transcription factor	[123]
<i>Hv</i> FLO2	yes	HORVU.MOREX.r3.2HG0205380	Os04g0645100	Clustered mitochondria protein	[124]
<i>Hv</i> ZmAFL4	yes	HORVU.MOREX.r3.2HG0210050	Zm00001eb066270	B3 domain transcription factor	[125]
<i>Hv</i> RAG2		HORVU.MOREX.r3.2HG0212810	Os07g0214300	Dimeric alpha-amylase inhibitor	[126]
<i>Hv</i> BSK3	yes	HORVU.MOREX.r3.2HG0214020	Os04g0684200	Kinase family protein	[127]
<i>Hv</i> CKX2-1		HORVU.MOREX.r3.3HG0236930	At2g19500	Cytokinin oxidase/dehydrogenase	[76,128]
<i>Hv</i> MADS87-3		HORVU.MOREX.r3.3HG0244110	Os03g0582400	AGAMOUS-like MADS-box protein	[103]
<i>Hv</i> Gn1a/CKX2-1	yes	HORVU.MOREX.r3.3HG0244570	Os01g0197700	Cytokinin oxidase/dehydrogenase	[129]
<i>Hv</i> Gn1a/CKX2-2		HORVU.MOREX.r3.3HG0244590	Os01g0197700	Cytokinin oxidase/dehydrogenase	[129]
<i>Hv</i> RDD1	yes	HORVU.MOREX.r3.3HG0255050	Os01g0264000	Dof zinc finger protein	[130]
<i>Hv</i> FBK12-1	yes	HORVU.MOREX.r3.3HG0255740	Os03g0171600	Kelch repeat-containing protein	[131]
<i>Hv</i> HB46	yes	HORVU.MOREX.r3.3HG0275220	Zm00001eb158680	Homeobox associated leucine zipper protein	[132]
<i>Hv</i> emp16	yes	HORVU.MOREX.r3.3HG0279170	Zm00001eb359970	Pentatricopeptide repeat-containing protein	[133]
<i>Hv</i> D61		HORVU.MOREX.r3.3HG0285210	Os01g0718300	Receptor kinase	[66]
<i>Hv</i> BG1-1	yes	HORVU.MOREX.r3.3HG0294270	Os03g0175800	Protein BIG GRAIN 1	[134]
<i>Hv</i> ABI5		HORVU.MOREX.r3.3HG0300770	At2g36270	BZIP transcription factor	[77]
<i>Hv</i> DET2	yes	HORVU.MOREX.r3.3HG0301780	At2g38050	3-oxo-5-alpha-steroid 4-dehydrogenase family protein, expressed	[82]
<i>Hv</i> ABI3/ <i>Hv</i> VP1	yes	HORVU.MOREX.r3.3HG0308890	Zm00001eb143690	Transcription factor viviparous 1	[135]
<i>Hv</i> AHKs-1		HORVU.MOREX.r3.3HG0310920	At1g27320	Histidine kinase	[136]
<i>Hv</i> RPT2A-2		HORVU.MOREX.r3.3HG0311570	At4g29040	26S protease regulatory subunit	[110]
<i>Hv</i> ARF4-1	yes	HORVU.MOREX.r3.3HG0312310	Os01g0927600	Auxin response factor	[83]
<i>Hv</i> ARF4-2		HORVU.MOREX.r3.3HG0313110	Os01g0927600	Auxin response factor	[83]
<i>Hv</i> BDG1		HORVU.MOREX.r3.3HG0317920	Os11g0514400	Leucine-rich repeat receptor-like kinase	[137]
<i>Hv</i> SNG1/HXK3		HORVU.MOREX.r3.3HG0318700	Os01g0940100	Phosphotransferase	[138]
<i>Hv</i> emp5		HORVU.MOREX.r3.3HG0323440	Zm00001eb140440	Pentatricopeptide repeat-containing protein	[139]
<i>Hv</i> RGB1		HORVU.MOREX.r3.4HG0333750	Os03g0669100	Deoxyuridine 5'-triphosphate nucleotidohydrolase	[67]
<i>Hv</i> dek35	yes	HORVU.MOREX.r3.4HG0337450	Zm00001eb055010	Pentatricopeptide repeat-containing protein	[68]
<i>Hv</i> AHKs-2	yes	HORVU.MOREX.r3.4HG0337770	At2g01830	Histidine kinase	[136]
<i>Hv</i> emp4	yes	HORVU.MOREX.r3.4HG0339220	Zm00001eb055980	Pentatricopeptide repeat-containing protein	[70]

<i>HvDAR1</i>		HORVU.MOREX.r3.4HG0341060	At4g36860	Protein DA1-related 1	[11]
<i>HvTaSnRK2.10</i>	yes	HORVU.MOREX.r3.4HG0342860	TraesCS4A02G235600	Kinase family protein	[140]
<i>Hvsmk1</i>		HORVU.MOREX.r3.4HG0345720	Zm00001eb110890	Pentatricopeptide repeat-containing protein	[141]
<i>HvCyclin-T1;3-2</i>		HORVU.MOREX.r3.4HG0350880	Os11g0157100	Cyclin family protein	[115]
<i>HvSOD7/NGAL2-1</i>		HORVU.MOREX.r3.4HG0351290	At3g11580	B3 domain-containing protein	[142]
<i>HvEOD1/BB</i>		HORVU.MOREX.r3.4HG0384230	At3g63530	RING/U-box superfamily protein	[143]
<i>HvHDR3</i>	yes	HORVU.MOREX.r3.4HG0389200	Os03g0267800	LIM domain-containing protein 1	[144]
<i>HvANT-2</i>		HORVU.MOREX.r3.4HG0394710	At4g37750	AP2-like ethylene-responsive transcription factor	[111]
<i>HvTUD1</i>	yes	HORVU.MOREX.r3.4HG0394810	Os03g0232600	U-box domain-containing protein	[145]
<i>HvTaGS-4B</i>	yes	HORVU.MOREX.r3.4HG0395540	TraesCS4B02G240900	Glutamine synthetase	[146]
<i>HvD14-1</i>		HORVU.MOREX.r3.4HG0398570	Os03g0203200	Sigma factor sigB regulation protein rsbQ	[147]
<i>HvPGL1</i>	yes	HORVU.MOREX.r3.4HG0403680	Os03g0171300	Transcription factor protein	[148]
<i>HvFBK12-2</i>		HORVU.MOREX.r3.4HG0403700	Os03g0171600	Kelch repeat-containing protein	[131]
<i>Hvsmk2-1</i>		HORVU.MOREX.r3.4HG0404270	Zm00001eb208970	Pyridoxal 5'-phosphate synthase subunit PdxT	[149]
<i>HvBG1-2</i>		HORVU.MOREX.r3.4HG0404460	Os03g0175800	Protein BIG GRAIN 1	[134]
<i>HvANT-3</i>		HORVU.MOREX.r3.4HG0404560	At4g37750	AP2-like ethylene-responsive transcription factor	[111]
<i>HvLG3</i>		HORVU.MOREX.r3.4HG0405650	Os03g0183000	Ethylene-responsive transcription factor	[150]
<i>HvEXPLA1-1</i>	yes	HORVU.MOREX.r3.4HG0409710	Os03g0132200	Expansin-like protein	[151]
<i>HvEXPLA1-2</i>		HORVU.MOREX.r3.4HG0409760	Os03g0132200	Expansin-like protein	[151]
<i>HvEXPLA1-3</i>		HORVU.MOREX.r3.4HG0409870	Os03g0132200	Expansin-like protein	[151]
<i>HvCDPK1</i>	yes	HORVU.MOREX.r3.4HG0410700	Os03g0128700	Calcium dependent protein kinase	[152]
<i>Hvprog1-1</i>		HORVU.MOREX.r3.4HG0411810	Os07g0153600	Zinc finger protein, putative	[153]
<i>Hvprog1-2</i>		HORVU.MOREX.r3.4HG0411820	Os07g0153600	Zinc finger protein, putative	[153]
<i>Hvprog1-3</i>		HORVU.MOREX.r3.4HG0411840	Os07g0153600	Zinc finger protein, putative	[153]
<i>HvMRP5</i>		HORVU.MOREX.r3.4HG0412040	Os03g0142800	Multidrug resistance protein ABC transporter family protein	[154]
<i>HvCCS52A</i>	yes	HORVU.MOREX.r3.4HG0412380	Os03g0123300	WD-repeat protein, putative	[155]
<i>Hvprog1-4</i>		HORVU.MOREX.r3.4HG0413540	Os07g0153600	Zinc finger protein, putative	[153]
<i>Hvincw1-2</i>		HORVU.MOREX.r3.4HG0413910	Zm00001eb242820	Cell wall invertase	[57]
<i>HvIKU2-2</i>		HORVU.MOREX.r3.5HG0421310	At3g19700	Receptor protein kinase, putative	[72]
<i>HvPPKL3</i>	yes	HORVU.MOREX.r3.5HG0426290	Os12g0617900	Serine/threonine-protein phosphatase	[73]
<i>Hvcr4-1</i>		HORVU.MOREX.r3.5HG0429770	Zm00001eb406780	Kinase family protein	[156]
<i>HvDA1</i>		HORVU.MOREX.r3.5HG0436650	At1g19270	Protein DA1-related 1	[157]
<i>HvTaSnRK2.9-5A</i>	yes	HORVU.MOREX.r3.5HG0438740	TraesCS5A02G069500	Kinase family protein	[158]
<i>HvSOD7/NGAL2-2</i>		HORVU.MOREX.r3.5HG0458770	At3g11580	B3 domain-containing protein	[142]
<i>HvCEN2/RCN1</i>	yes	HORVU.MOREX.r3.5HG0460080	Os11g0152500	Putative phosphatidylethanolamine-binding protein	[159]
<i>Hvwri1</i>	yes	HORVU.MOREX.r3.5HG0463120	Zm00001eb093560	AP2-like ethylene-responsive transcription factor	[160]
<i>HvTTG2</i>		HORVU.MOREX.r3.5HG0466860	At2g37260	WRKY transcription factor	[161]
<i>HvBC12</i>		HORVU.MOREX.r3.5HG0468240	Os09g0114500	Kinesin-like protein	[162]

<i>HvDEP1</i>	<i>yes</i>	HORVU.MOREX.r3.5HG0480200	Os09g0441900	Guanine nucleotide-binding protein subunit gamma 3	[163]
<i>HvFBK12-3</i>		HORVU.MOREX.r3.5HG0481140	Os03g0171600	Kelch repeat-containing protein	[131]
<i>HvGS9</i>	<i>yes</i>	HORVU.MOREX.r3.5HG0485690	Os09g0448500	Protein XRI1	[164]
<i>HvSG1</i>	<i>yes</i>	HORVU.MOREX.r3.5HG0486680	Os09g0459200	BEST plant protein match is: (TAIR:plant.1) protein, putative	[165]
<i>Hvemp6</i>	<i>yes</i>	HORVU.MOREX.r3.5HG0488360	Zm00001eb101330	Ubiquitin carboxyl-terminal hydrolase family protein	[166]
<i>HvBC1</i>	<i>yes</i>	HORVU.MOREX.r3.5HG0495090	Os09g0510500	basic helix-loop-helix (bHLH) DNA-binding superfamily protein	[167]
<i>HvD14-2</i>		HORVU.MOREX.r3.5HG0505590	Os03g0203200	Sigma factor sigB regulation protein rsbQ	[147]
<i>HvGL3.1</i>	<i>yes</i>	HORVU.MOREX.r3.5HG0508080	Os03g0646900	Serine/threonine-protein phosphatase	[115,168]
<i>Hvemp10</i>	<i>yes</i>	HORVU.MOREX.r3.5HG0510080	Zm00001eb057030	Pentatricopeptide repeat-containing protein, putative	[169]
<i>HvMPPR6</i>	<i>yes</i>	HORVU.MOREX.r3.5HG0512500	Zm00001eb058140	Pentatricopeptide repeat protein	[170]
<i>HvANT-4</i>		HORVU.MOREX.r3.5HG0513410	At4g37750	AP2-like ethylene-responsive transcription factor	[111]
<i>Hvdek36</i>		HORVU.MOREX.r3.5HG0515060	Zm00001eb213580	Ribose-5-phosphate isomerase A	[171]
<i>HvDST</i>		HORVU.MOREX.r3.5HG0516880	Os03g0786400	Zinc finger protein, putative	[76]
<i>HvABA2</i>		HORVU.MOREX.r3.5HG0524120	At1g52340	Short-chain dehydrogenase/reductase	[77]
<i>HvNaPRT1</i>	<i>yes</i>	HORVU.MOREX.r3.5HG0530510	Os03g0837300	Nicotinate phosphoribosyltransferase, putative, expressed	[172]
<i>HvGL3.3</i>	<i>yes</i>	HORVU.MOREX.r3.5HG0532220	Os03g0841800	Protein kinase	[83]
<i>Hvemb14</i>		HORVU.MOREX.r3.6HG0541050	Zm00001eb209870	Nitric oxide synthase 1	[173,174]
<i>HvMADS87-4</i>		HORVU.MOREX.r3.6HG0541730	Os03g0582400	AGAMOUS-like MADS-box protein	[103]
<i>Hvsmk2-2</i>		HORVU.MOREX.r3.6HG0552540	Zm00001eb208970	Pyridoxal 5'-phosphate synthase subunit PdxT	[149]
<i>Hvdek10</i>		HORVU.MOREX.r3.6HG0566240	Zm00001eb207310	Pentatricopeptide repeat-containing protein	[175]
<i>HvSPL4</i>	<i>yes</i>	HORVU.MOREX.r3.6HG0570860	Os02g0174100	Squamosa promoter-binding-like protein	[176]
<i>HvMADS29</i>	<i>yes</i>	HORVU.MOREX.r3.6HG0571720	Os02g0170300	MADS-box transcription factor	[177]
<i>HvBT1</i>	<i>yes</i>	HORVU.MOREX.r3.6HG0578050	Os02g0202400	Mitochondrial carrier family	[178]
<i>HvCKX2-2</i>		HORVU.MOREX.r3.6HG0579880	At2g19500	Cytokinin oxidase/dehydrogenase	[76,128]
<i>HvCKX2-3</i>		HORVU.MOREX.r3.6HG0579910	At2g19500	Cytokinin oxidase/dehydrogenase	[76,128]
<i>HvGW2</i>		HORVU.MOREX.r3.6HG0583520	Os02g0244100	Protein SIP5	[179]
<i>HvFUWA</i>		HORVU.MOREX.r3.6HG0585150	Os02g0234200	NHL repeat-containing protein	[180]
<i>Hvubl1</i>	<i>yes</i>	HORVU.MOREX.r3.6HG0599760	Zm00001eb249040	U6 snRNA phosphodiesterase	[181]
<i>Hvnkd1-2</i>	<i>yes</i>	HORVU.MOREX.r3.6HG0603120	Zm00001eb073830	Zinc finger protein, putative	[119]
<i>HvOcl1</i>		HORVU.MOREX.r3.6HG0603410	Zm00001eb126140	Homeobox-leucine zipper protein	[182]
<i>Hvcr4-2</i>		HORVU.MOREX.r3.6HG0604180	Zm00001eb406780	Receptor protein kinase, putative	[156]
<i>HvRAV6</i>	<i>yes</i>	HORVU.MOREX.r3.6HG0604470	Os02g0683500	B3 domain-containing protein	[183]
<i>HvGS2</i>	<i>yes</i>	HORVU.MOREX.r3.6HG0606810	Os02g0701300	Growth-regulating factor	[184]
<i>Hvdek1</i>		HORVU.MOREX.r3.6HG0608170	Zm00001eb014030	Calpain-like protein	[78]
<i>HvLec1</i>	<i>yes</i>	HORVU.MOREX.r3.6HG0611100	Zm00001eb253260	Nuclear transcription factor Y subunit B	[80]
<i>HvTaGS1a</i>	<i>yes</i>	HORVU.MOREX.r3.6HG0613270	TraesCS6A02G298100	Glutamine synthetase	[185]
<i>HvPGL2</i>	<i>yes</i>	HORVU.MOREX.r3.6HG0615060	Os02g0747900	Transcription factor protein	[148]
<i>HvAHKs-3</i>		HORVU.MOREX.r3.6HG0616300	At2g01830	Histidine kinase	[136]

<i>HvSMG1</i>		HORVU.MOREX.r3.6HG0622200	Os02g0787300	Protein kinase	[186]
<i>Hvemb12</i>	yes	HORVU.MOREX.r3.6HG0623680	Zm00001eb257720	Translation initiation factor IF-3	[187]
<i>HvMADS87-5</i>		HORVU.MOREX.r3.6HG0624300	Os03g0582400	AGAMOUS-like MADS-box protein	[103]
<i>HvMADS87-6</i>		HORVU.MOREX.r3.6HG0624320	Os03g0582400	AGAMOUS-like MADS-box protein	[103]
<i>HvMADS87-7</i>		HORVU.MOREX.r3.6HG0624330	Os03g0582400	AGAMOUS-like MADS-box protein	[103]
<i>HvMADS87-8</i>		HORVU.MOREX.r3.6HG0624340	Os03g0582400	AGAMOUS-like MADS-box protein	[103]
<i>HvbHLH107</i>	yes	HORVU.MOREX.r3.6HG0627040	Os02g0805250	basic helix-loop-helix (bHLH) DNA-binding superfamily protein	[188]
<i>HvBLS1</i>		HORVU.MOREX.r3.6HG0627710	Os02g0811000	LIGHT-DEPENDENT SHORT HYPOCOTYLS-like protein (DUF640)	[189]
<i>HvFBK12-4</i>		HORVU.MOREX.r3.7HG0635000	Os03g0171600	Kelch repeat-containing protein	[131]
<i>HvFBK12-5</i>		HORVU.MOREX.r3.7HG0635090	Os03g0171600	Kelch repeat-containing protein	[131]
<i>HvD1</i>		HORVU.MOREX.r3.7HG0641160	Os05g0333200	Guanine nucleotide-binding protein subunit alpha-like protein	[190]
<i>HvDLT</i>	yes	HORVU.MOREX.r3.7HG0642830	Os06g0127800	Scarecrow transcription factor family protein	[191]
<i>Hvde18</i>		HORVU.MOREX.r3.7HG0647150	Zm00001eb409250	Flavin-containing monooxygenase, putative	[192]
<i>HvMAPK6</i>	yes	HORVU.MOREX.r3.7HG0652970	Os06g0154500	Mitogen-activated protein kinase	[193]
<i>Hvmrp1-2</i>		HORVU.MOREX.r3.7HG0653280	Zm00001eb354390	MYB-related transcription factor	[100]
<i>HvHGW</i>	yes	HORVU.MOREX.r3.7HG0654600	Os06g0160400	Proline-rich cell wall protein-like protein	[194]
<i>Hvmrp1-3</i>		HORVU.MOREX.r3.7HG0654760	Zm00001eb354390	MYB-related transcription factor	[100]
<i>Hvmrp1-4</i>		HORVU.MOREX.r3.7HG0656920	Zm00001eb354390	MYB-related transcription factor	[100]
<i>Hvmrp1-5</i>		HORVU.MOREX.r3.7HG0656940	Zm00001eb354390	MYB-related transcription factor	[100]
<i>Hvppr2263</i>	yes	HORVU.MOREX.r3.7HG0659520	Zm00001eb374510	Pentatricopeptide repeat-containing protein	[195]
<i>Hvsh1</i>		HORVU.MOREX.r3.7HG0661420	Zm00001eb374090	Sucrose synthase	[196]
<i>HvVRT-A2</i>	yes	HORVU.MOREX.r3.7HG0664320	TraesCS7A02G175200	MADS box transcription factor	[30,197]
<i>HvBU1</i>	yes	HORVU.MOREX.r3.7HG0666110	Os06g0226500	Transcription factor protein	[198]
<i>Hvmrp1-6</i>		HORVU.MOREX.r3.7HG0666620	Zm00001eb354390	MYB-related transcription factor	[100]
<i>HvWFP</i>	yes	HORVU.MOREX.r3.7HG0679980	Os08g0509600	Squamosa promoter binding protein	[199,200]
<i>HvERF115</i>	yes	HORVU.MOREX.r3.7HG0681130	Os08g0521600	Ethylene-responsive transcription factor	[201]
<i>HvGW8</i>	yes	HORVU.MOREX.r3.7HG0684000	Os08g0531600	Squamosa promoter binding-like protein	[202]
<i>HvWTG1/HvOTUB1</i>	yes	HORVU.MOREX.r3.7HG0685210	Os08g0537800	Ubiquitin thioesterase	[203]
<i>HvASP- LSL</i>		HORVU.MOREX.r3.7HG0695720	Os08g0162100	Topless-related protein 1	[204]
<i>HvTBP1</i>		HORVU.MOREX.r3.7HG0697320	Os08g0174700	Receptor-like kinase	[205]
<i>Hvcr4-3</i>		HORVU.MOREX.r3.7HG0699810	Zm00001eb406780	Kinase family protein	[156]
<i>HvFIE1</i>		HORVU.MOREX.r3.7HG0702190	Os08g0137250	Fertilization independent endosperm 1 protein	[206]
<i>HvCKX2-4</i>		HORVU.MOREX.r3.7HG0716480	At2g19500	Cytokinin oxidase/dehydrogenase	[76,128]
<i>HvTaMOC1</i>	yes	HORVU.MOREX.r3.7HG0720900	TraesCS7B02G285500	GRAS transcription factor	[207]
<i>HvMADS87-9</i>		HORVU.MOREX.r3.7HG0723860	Os03g0582400	MADS-box transcription factor family protein	[103]
<i>Hvemp7</i>		HORVU.MOREX.r3.7HG0727380	Zm00001eb333280	Pentatricopeptide repeat-containing protein	[208]
<i>HvGW6a</i>	yes	HORVU.MOREX.r3.7HG0742750	Os06g0650300	N-acetyltransferase, putative	[209]
<i>HvHOS59</i>		HORVU.MOREX.r3.7HG0744200	Os06g0646600	Homeobox protein knotted-1, putative	[210]

<i>HvBRD2</i>	HORVU.MOREX.r3.7HG0749940	Os10g0397400	Delta(24)-sterol reductase	[211]
<i>HvMADS87-10</i>	HORVU.MOREX.r3.7HG0751440	Os03g0582400	MADS-box transcription factor family protein	[103]
