

Additional file 2: Cereal GA 2-ODD genes and accession numbers

Target	Rice gene	Brachypodium gene	T. aestivum survey sequence (Ensemble plants v.25)			T. durum transcript		T. urartu transcript	T. urartu genomic contig	Ae. tauschii genomic contig	Barley cds
			A	B	D	A	B	A	A	D	H
GA20ox1	Os03g63970	Bradi1g00950	FL (4AL) Traes_4AL_FABDF4EDA	FL ⁷ (5BL) Traes_5BL_D412D28CC	FL (5DL) Traes_5DL_3E77D28A6	FL UCW_Tt-k61_contig_4086	FL UCW_Tt-k31_contig_24761	FL UCW_Tu-k31_contig_19469	FL AOTI011205483	Partial AOCO010361971	FL (5H) MLOC_16059.1
GA20ox2	Os01g66100	Bradi2g57030	-	FL (3B) TRAES3BF021500010CFD_t1	FL ¹ (3D) EMBL:LN828667	-	FL UCW_Tt-k51_contig_72276	Partial UCW_Tu-k31_contig_43195	Partial AOTI010822325	FL AOCO010414640	FL (3H) MLOC_56462.1
GA20ox3	Os07g07420	Bradi1g56200	-	FL (3B) TRAES3BF078000020CFD_t1	FL ¹ (3D) EMBL:LN828668	FL UCW_Tt-k31_contig_77943	FL UCW_Tt-k31_contig_77942	-	Partial AOTI010920090	Partial AOCO010472349	FL (3H) MLOC_66389.1
GA20ox4	Os05g34854	Bradi2g24980	FL ¹ (1AL) EMBL:LN828665	FL ^{1,2} (1BL) EMBL:LN828666	FL ^{1,2} (1DL) EMBL:LN828669	FL UCW_Tt-k45_contig_52969	-	Partial UCW_Tu-k45_contig_45615	Partial AOTI010446710	Partial AOCO010054278	FL (1H) AK373555
GA3ox1	Os05g08540	-	-	-	-	-	-	-	-	-	-
GA3ox2	Os01g08220	Bradi2g04840(a) Bradi4g23570(b)	Partial ^{1,3} (3A) Traes_3AS_3A79F81AF	FL (3B) TRAES3BF085400020CFD_t1	FL ¹ (3D) EMBL:LN828690	FL UCW_Tt-k25_contig_19860	-	FL UCW_Tu-k25_contig_19670	Partial AOTI010990317	Partial AOCO010773132	FL (3H) AB189152
GA3ox3	-	-	FL ¹ (2AL) EMBL:LN828688	FL ¹ (2BL) EMBL:LN828689	Partial (2DL) Traes_2DL_66F9CEA3C	FL UCW_Tt-k35_contig_80532	Partial UCW_Tt-k55_contig_83042	-	Partial AOTI010197447	-	-
GA1ox1	-	-	-	FL (2BL) Traes_2BL_9E115B19F	-	-	FL UCW_Tt-k35_contig_80660	-	-	-	FL (2H) HvGA3,18ox1 MLOC_128
GA2ox1	Os05g06670	Bradi2g34840	FL ¹ (1AS) EMBL:LN828670	FL (1BS) Traes_1BS_0EDD50331.1	FL (1DS) Traes_1DS_125A395C1	Partial UCW_Tt-k21_contig_42061	-	Partial UCW_Tu-k21_contig_19294	Partial AOTI011122791	Partial AOCO010626498	FL ⁶ (1H) -
GA2ox2	Os01g22910	Bradi2g12440	-	FL ¹ (7BL) EMBL:LN828677	FL ¹ (7D) EMBL:LN828681	-	-	-	-	Partial AOCO010286040	FL ⁶ (7H) -
GA2ox3	Os01g55240	Bradi2g50280	Partial ⁵ (3AL) Traes_3AL_14A36F545	FL (3B) TRAES3BF090300180CFD_t1	FL ¹ (3D) EMBL:LN828682	FL UCW_Tt-k51_contig_27371	-	FL UCW_Tu-k35_contig_25670	Partial AOTI010091872	Partial AOCO010496281	FL (3H) AK364775
GA2ox4	Os05g43880	Bradi2g19900	Partial (1AL) Traes_1AL_5ED72B143	FL ¹ (1B) EMBL:LN828678	FL ¹ (5BL) EMBL:LN828683	Partial UCW_Tt-k41_contig_81164	FL UCW_Tt-k31_contig_24170	FL UCW_Tu-k35_contig_45252	FL AOTI011226444	Partial AOCO010507273	Partial (1H) MLOC_13981.1
GA2ox5	Os07g01340	Bradi1g59570	-	-	-	-	-	-	-	-	-
GA2ox6	Os04g44150	Bradi5g16040	FL ¹ (2AL) EMBL:LN828673	FL (2BL) Traes_2BL_1B1358201	FL ¹ (2DL) EMBL:LN828684	FL UCW_Tt-k31_contig_60185	FL UCW_Tt-k31_contig_60185	Partial UCW_Tu-k31_contig_28625	Partial AOTI010554200	Partial AOCO010171523	FL (2H) MLOC_1557.1
GA2ox7	Os01g11150	Bradi2g06670	-	FL (3B) TRAES3BF118400050CFD_t1	FL ¹ (3DS) EMBL:LN828685	Partial UCW_Tt-k25_contig_44496	FL UCW_Tt-k51_contig_19754	Partial UCW_Tu-k21_contig_25357	Partial AOTI010095549	Partial AOCO010565863	FL (3H) AK373885
GA2ox8	Os05g48700	Bradi2g16730(a) Bradi2g16750(b)	FL ¹ (1AL) EMBL:LN828674	-	FL ^{1,2} (5BL) EMBL:LN828686	Partial UCW_Tt-k31_contig_41182	Partial UCW_Tt-k41_contig_42235	Partial UCW_Tu-k31_contig_39145	Partial	Partial AOCO010629416	FL ⁶ (1H) -
GA2ox9	Os02g41954	Bradi3g49390	FL (6AL) Traes_6AL_6926D08B4	Partial (6BL) Traes_6BL_B8497D305	FL ^{1,2} (6DL) EMBL:LN828687	FL UCW_Tt-k21_contig_25899	-	FL UCW_Tu-k55_contig_21546	FL AOTI010464169	Partial	FL (6H) MLOC_6996.1
GA2ox10	Os05g11810	Bradi2g32580	FL ¹ (1AS) EMBL:LN828671	FL ¹ (1BS) Traes_1BS_2C29ED3EF	FL (1DS) EMBL:LN828679	-	FL UCW_Tt-k25_contig_50873	FL UCW_Tu-k45_contig_25977	Partial	Partial	FL (1H) AK357218
GA2ox11	-	-	FL ¹ (4AS) EMBL:LN828672	FL ¹ (4BL) EMBL:LN828675	FL ¹ (4DL) EMBL:LN828680	-	-	-	FL AOTI010991515	FL AOCO010008031	-
GA2ox12	-	-	-	FL (4BL) Traes_4BL_57623F302	-	-	-	-	FL? (repeated section) AOTI010699551	-	-
GA2ox13	-	-	-	FL ¹ (4BL) EMBL:LN828676	-	-	-	-	-	Pseudogene AOCO010487378	-

Notes

- FL: Full length genomic or CDS sequence
- IWGSC cDNA sequences (Traes...) are available from Ensemble Plants (http://plants.ensembl.org/Triticum_aestivum/Info/Index)
- Transcript sequences from T. durum cv. Kronos are available at <http://maswheat.ucdavis.edu/Transcriptome/index.htm>
- Transcript sequences from T. urartu are available at NCBI (<http://www.ncbi.nlm.nih.gov/bioproject/191053>)
- Barley cds sequences are available at <http://pgsb.helmholtz-muenchen.de/plant/barley/index.jsp>
- ¹Reassembly of IWGSC chromosome arm reads
- ²Missing data in intron
- ³FL cDNA from cv. Maris Huntsman
- ⁴7bp insertion in exon 2
- ⁵FL cDNA from cv. Avalon
- ⁶CDS absent from barley high-confidence gene list
- ⁷Intron sequence (2 bp) in IWGSC transcript