

Table S1. List of wheat genotypes used in the study

No	Name	Collection Center
1	Pakistan-13	NARC, Islamabad, Pakistan
2	Shahkar-13	BARI, Chakwal Pakistan
3	Aanmol-91	NARC, Islamabad, Pakistan
4	AARI-11	AARI, Faisalabad Pakistan
5	Punjab-11	PMAS-AAUR, Pakistan
6	AAS-11	NARC, Islamabad, Pakistan
7	Millet-11	AARI, Faisalabad Pakistan
8	Chakwal-50	BARI, Chakwal Pakistan
9	Pirsabak-08	NARC, Islamabad, Pakistan
10	Lasani-08	AARI, Faisalabad Pakistan
11	AUR-09	AARI, Faisalabad Pakistan
12	Pirsabak-05	NARC, Islamabad, Pakistan
13	Bhakkar-02	AZRI, Bhakkar, Pakistan
14	Chakwal-97	BARI, Chakwal Pakistan
15	Sariab-92	AARI, Faisalabad Pakistan
16	Inqalab-91	NARC, Islamabad, Pakistan
17	Pirsabak-91	NARC, Islamabad, Pakistan
18	AUR-10	NARC, Islamabad, Pakistan
19	Bahawalpur-2000	AZRI, Bahawalpur, Pakistan
20	Bwp-97	AZRI, Bahawalpur, Pakistan
21	Chakwal-86	BARI, Chakwal Pakistan
22	Barani-83	PMAS-AAUR, Pakistan
23	Sarhad-82	NARC, Islamabad, Pakistan
24	Pak-81	NARC, Islamabad, Pakistan
25	SA-75	PMAS-AAUR, Pakistan
26	Lyp-73	PMAS-AAUR, Pakistan
27	Bahawalpur-79	AZRI, Bhakkar, Pakistan
28	Fsd-83	AARI, Faisalabad Pakistan
29	Punjab-85	AARI, Faisalabad Pakistan
30	Khyber-87	NARC, Islamabad, Pakistan

NARC, national agricultural research center; AARI, ayub agricultural research institute; AZRI, arid zone research instate; PMAS-AAUR, pir mehr ali shah arid agriculture university Rawalpindi.

Table S2. List of primers used in relative gene expression analysis.

Genes	Primers (5'-3')
TaDREB1A	CGGAACCACTCCCTCCATCTC (F) CGGTTGCCCCATTAGACGTCA (R)
TaARGOS-A	GATCATCTTCCACCACCATCTC (F) GCACCTACATGGGTGTTCTT (R)
TaLEA3	AGTACACCAAGGAGTCCGC (F) CATTGTCACCACCCATGCC (R)
TaHSFA1a	AGCATTCCAGGATTCCCAGAT (F) CCAGGCATTGCGAAATTCTC (R)
TaWRKY44	GCCCCCCTTCGCTCTTCTC (F) CAGCACACCAGAAATGGGCTAAT (R)
TaEXPA2	TCAGG TTCACCATCAACGGG(F) TCTCACACACCACTCCATGC (R)