

Additional file 2

Table S1 Primer information for *ScDreb2*

Primer set name	Forward and reverse primer sequence (5'-3')	Analysed sequence length (bp)	Gene coverage	Sequence for primer design (GenBank accession number)	Annealing temperature (°C)	Taq DNA polymerase supplier	GenBank accession number
<i>ScDreb2</i> - fragment 1	F: TGGAGCAGAGGAAAGTACCCGGA R: AGGTGGCTTCCTCGCCCTCT	919	Exon 3 and intron 3	GU017675 (Aegilops)	65	QIAGEN	HQ730774
<i>ScDreb2</i> - fragment 2	F: CCAGCCTGGAAGGTGAGATCTTCTGT R: ATAGATGCCACTGGCGGCGCA	758	Exon 4	GU017675 (Aegilops)	58	QIAGEN	HQ730774

PCR was performed according to our previous study:

Li Y, Haseneyer G, Schön CC, Ankerst D, Korzun V, Wilde P, Bauer E: **High levels of nucleotide diversity and fast decline of linkage disequilibrium in rye (*Secale cereale* L.) genes involved in frost response.** *BMC Plant Biology* 2011, 11:6.

Table S2 Summary information of candidate gene (CG) *ScDreb2*: Analyzed fragment length, gene coverage, number of lines, number of SNPs (MAF>0.05), number of Indels and haplotypes, haplotype (*Hd*) and nucleotide diversity (π), and linkage disequilibrium (LD)

CG	Fragment length (bp)	Gene coverage ^a	No. of lines ^b	No. of SNPs (non-synonymous)	No. of Indels	No. of haplotypes	<i>Hd</i> ± SD	π ± SD ×10 ⁻³ (only exon)	Intra-genic LD (r^2)
<i>ScDreb2</i>	1677	E3/I3/E4	197	13 (4)	0	88	0.89 ± 0.02	3.0 ± 0.3 (3.4 ± 0.1)	0.06

^a E: exon; I: intron

^b Failure of amplification in 4 lines may be due to the presence of SNPs/Indels in the primer binding sites of these sequence