Table S1. Gene specific primer pairs of germination-responsive genes and salt stress marker genes used in quantitate real-time RT-PCR analysis.

Gene ID		Primer (5'-3)
TraesCS2A02G219100.1 (Ta_ ISO)	Forward	GATCCAGCGGGAGGAGAGGA
	Reverse	CATCCTGGACTTGGCAAGAG
TraesCS3B02G430000.1 (Ta_ BGU)	Forward	CAAGGTGGTCAAGTAGGATT
	Reverse	CGGTCTTTCTCAGAGAATTTTGG
TraesCS4D02G183400.2 (Ta_ PHY)	Forward	CGGGGACGTCAAGCTCCTCT
	Reverse	CGGAACAGGAAGCGTGATGC
TraesCS6D02G230100.1 (Ta_ SAM)	Forward	GCCTGACGGAAAGACCCAGG
	Reverse	GGTGGAAGATGGTGTTCTCA
TraesCS1D02G121500.1 (Ta_ LEA)	Forward	ATCCTCCCTGCACAACGCCG
	Reverse	CGCGCGAGCAGCGCGTCGAA
TraesCSU02G220200.1 Ta_ GDA9_WHEAT	Forward	CCAGGGCAGCAACAACCATT
	Reverse	GGTTGCGAATACTGTGGTTG
TaGASR34	Forward	GGGACGCAGTACAAGAAGGC
	Reverse	GTTGTTGTAGCAGGGGCAGG
Ta_ Actin	Forward	GGTAACATTGTGCTCAGTGGTGG
	Reverse	AACGACCTTAATCTTCATGCTGC
Ta_ β-Tubulin	Forward	TGTGGCAACCAGATCGGTGC
	Reverse	CATAAGGCCCAGTGCGGACAC
Ta_ SOS1	Forward	GTTGTCGGTGAGGTCGGAGGG
	Reverse	TCATCTTCTCCTACCGCCCTGC
Ta_ SOS4	Forward	ATCCAGTCCCACACCGTCCA
	Reverse	GCTGATTGCCATTGAGAACCTGTC
Ta_ P5CS	Forward	GAGACAAGTCCCGTGTTGGT
	Reverse	CACTGGTCTCCTTGGATGGT
Ta_ BADH	Forward	GGCTGGGTTCAGTCATCAGT
	Reverse	CCAAATTTGCATTGATGTGC
Ta_ HKT2-7D	Forward	TCGAGCTCTCAGATTGTGGT
	Reverse	TCAAGCTGCGACTCATCACA
Ta_DREB2	Forward	CTACTCCCTGCACGGTCCT
	Reverse	GCCAAGCCTAATACTCCCAC

Table S2. Sequences of the germination marker genes, salt stress marker genes are listed below.

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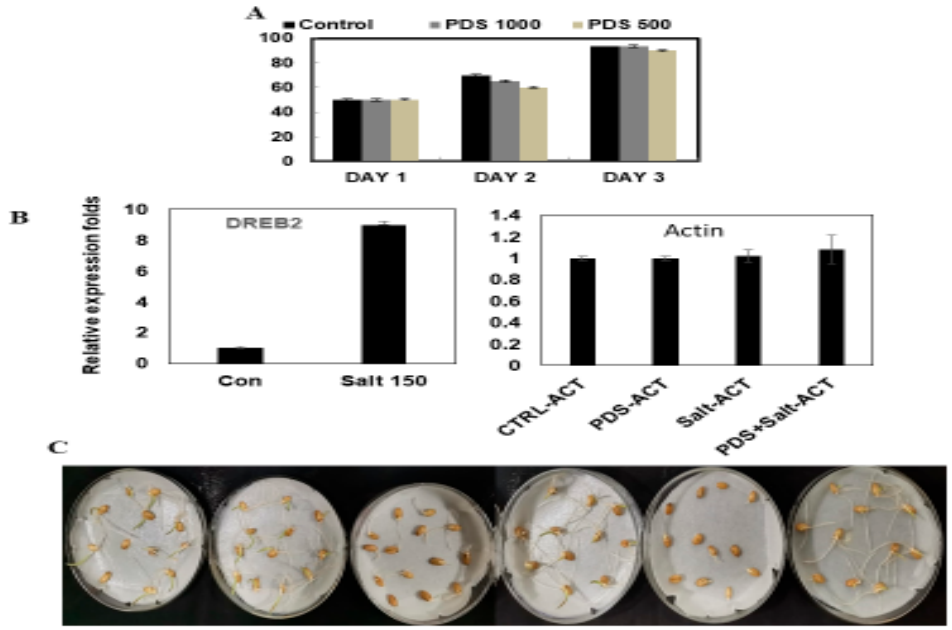

Figure S1. (**A**). Effect of PDS 4000 and 6000 ppm om seed germination rate of wheat. (**B**). Levels of Actin and Tubulin under PDS, salt and PDS+salt medium. (**C**). Images of seed germination and seedling growth of wheat.

List of Abbreviations

Plant-derived smoke	PDA
superoxide dismutase	SOD
Pperoxidase	POD
ascorbate peroxidase	APX
hydrogen peroxide	H_2O_2
S-adenosylmethionine synthetase	*SAM*
Isocitrate lyase	*ISO*
Phytochrome genes	*PHY*
β-glucosidase	*BGU*
Guanine Deaminase	*GDA9*
Late embryogenesis abundant	*TaLEA*
Gibberellic acid-stimulated regulator	*TaGASR34*
salt overly sensitive 1	*SOS1*
Pyrroline-5- carboxylate synthetase	*P5CS*
Salt overly sensitive 4	*SOS4*
Cation transporter	*HKT2*
Betaine-aldehyde dehydrogenase	*BADH*
reactive oxygen species	ROS