

Supplementary Table S1. Primers used for *q*PCR amplification of the wheat defense-encoding genes.

Function	Gene, full name	Acronym	primer (For/Rev)	PCR efficiency
Receptors	Receptor Like Kinase	LRR-RLK	TGTCGATTCTCGATCAAGG / GGTGAAATTTGGTGTGCAC	2,01
	Receptor-like cytoplasmic kinase	RLCK1	GCGAGGGTGAGATTCTGGAG / CTGGCTTAGTTGGGGTGAGG	1,81
	Wall Associated Kinase 2	WAK2A	GGTATCGTGCTACTGGAGCTC / CTCCCATGGTAGCCTGTTA	2,15
	Wall Associated Kinase 6	WAK6	AGAACCTCTCGTCGCACTTC / CCTTAGCTGCCAAGCTCTT	2,14
Transduction network	Mitogen-activated protein kinase 3	MAPK3	TACATGAGGCACCTGCCGAGT / GGTTCAACTCCAGGCTTCGTTG	2,32
	Cysteine-rich receptor-like kinase	CERK3	AGGTTTCGAGACTTTCATGTTCT / GTGGAGCAGCTACAGATATAGC	2,18
ROS generation and diffusion	NADPH oxidase (subunit D)	RbohD	ACCACCAAGACAGACAGAC / TGTTGGATAGGAGGCGTAG	2,31
	NADPH oxidase (subunit F)	RbohF	TGGCACCCCTTCTCAATTAC / CTCTCGTGCTCAGTCACCA	1,97
	Aquaporin	AQP1	TGGTCAGACCACTGGATCTTC / TGGCATCTTCTTGACGAC	2,07
Antioxidative complexe	Glutathion peroxidase	GPX	GCGGTGACACCAACATCAAC / GTCCAGGTTCTCCAGTTGG	1,99
	Catalase	CAT	CACCTGGTGAGAGAATGCG / TCACCTCGAAGAAGCCCTTG	1,96
	Superoxide dismutase	SOD	CAGATGCCAGATTCTTTGACT / GAAACCAAGCAGCTACAACG	2,11
	Glutathion S-transferase	GST	TGCTCCGCAAGTACAAGACG / ATGAGCGGGTTGATGAGGC	2,01
Phenylpropanoid pathway	Phenylalanine ammonia lyase	PAL	GGCCCAAACTGGAAGTTATTC / GGAAGTTGCCACCGTGGAT	2,09
	Chalcone synthase	CHS	GCGCTCGTGCTACTCTTCATC / CCTCGCGGAGCGTTT	1,92
	caffeic acid O-methyltransferase	COMT	ACGTCGACATGATCATGCTC / ACTCGATGGCAATGCGTTG	2,07
	dihydroflavonol 4-réductase	DFR	TACGACGAGCAACTGGAG / GGGATGATGCTGATGAAGTC	1,95
	Flavonol synthase1	FLS	GGTGTTCGAAGGACGATGCTGGTA / CGGCCACGACATCCGCTCTT	2,16
	Polyphenol oxidase	PPO	GTCCGGACGAACAAGAGAA / GGGCATGCTTCACTTGGTAT	2,09
	Benzooate 4-monoxygenase	B4MO	CGCCGAGGACATGCACGAGTG / GAAGACGCCGTGCCAAGGG	2,09
Secondary metabolisms	Cinnamyl alcohol dehydrogenase	CAD1	AGATACCGCTTCGTCTATCG / GAATCGCACGCCAACCC	1,97
	Cinnamyl Coenzyme Reductase 3	CCR3	CTGTCCGGTAGTTAATTCTATG / ATATGATCGCCAAACCAACC	2,11
	glucan synthase-like 22 (callose synthase)	GSL22	GTCTGGGGCGGATTTTA / GCTGATGACAGCCGGTAGT	2,18
	Farnesyl pyrophosphate synthase (sesquiterpenes)	FPS1	TCCTTCAAGCCACTCAGAGGAA / TGTTCTGTATTGCACAATGCGCCG	2,12
	β-glucosidase (cyanogenic glycosides)	BGD2	ATGGTATATGGATCCACTGACGT / TATGGGATTCCCGTTACGCTCAC	1,87
Pathogenesis Related Proteins	Pathogenesis Related protein 1a (PR-1)	PR1a	GAATGCAGACGCCCAAGCTA / GCACGGGACGCGTTGT	1,78
	Pathogenesis Related protein 1b (PR-1)	PR1b	ACTACGACTACGGGTCCAACA / TCGTAGTTGCAGGTGATGAAG	2,26
	Glucanase (PR-2)	GLU	TCCTGGGTTCAGAAACAATGCTC / TTGATGTTGACAGCCGGTAGT	1,96
	Chitinase basic, class 1 (PR-3)	CHTb	GCCACGTCCCACTACTAT / CCGCAAGATCGTAGTTGGA	2,25
	Chitinase (PR-4)	CHT2	GGGTGGACCTGCTGAACAAT / AGAACCATATCGCGTCTTGA	2,01
	Peroxydase (PR-9)	POX2	TGCTTTGTCCAAGGCTGTGA / GACCCGCGTTTGTCCA	1,97
	Defensine (PR-12)	DEF	ATGTCCGTGCTTTTGCTA / CCAAACTACCGAGTCCCG	1,93
	Lipid transfer protein (PR-14)	LTP	ACGTAGGTACTCTCTCGCTGT / GTTGATCGACCACTTCTTCTCA	2,19
	Oxalate oxidase (PR-15)	OXO	GCCAGAACCCGGTATCG / GGTGGGTTGGAGCTGAAGAG	2,14
	Germine-like (PR-16)	GLP	AACAAAGGTGATGTTGCTCTTC / GAGCCGCTCTATTGTATTCTTTCC	1,83
Phytohormonal status	Non Expresseur of Pathogenesis Related -1 (SA syhtesis)	NPR1	GCTTGTGAGATGCTGCTC / GAACAGTATAACCTCTTGGGTTTC	1,78
	Isochorismate synthase (SA syhtesis)	ICS	AGAAATGAGGACGACGAGTTTGAC / CCAAGTAGTGCTGATCAATCCCAA	2,04
	Enhanced Disease Susceptibility 1 (SA syhtesis)	EDS1	CATCATCCACGAATACCGCTGG / CCTAGGATTGAGCTAGTGCAATCC	2,01
	Aminocyclopropane (ACC) synthase 1 (Et syhtesis)	ACS1	CTCGAAACCTGCAAGAGATAG / CTGCAAACTCTGCAAGAGATAG	1,89
	Aminocyclopropane (ACC) oxydase (Et syhtesis)	ACO	TGTCCATCGCTCTCTTCTA / CGAACACGAACCTTGGGTAT	1,79
	Ethylene response Factor 3 (Et pathway)	ERF3	GCAATCGGGCAAGCAAAAC / CGAATCAGAACGAACACGA	2,02
	Ethylene Insensitive3-Like1 (Et pathway)	EIL1b	GGCTCAACAACCTGGATTIT / CCCTGTCCAAGAAGAACCT	2,03
	Ethylene signaling pathway (Et pathway)	PIE	GGAGCCACCAAGTCCGTATGA / CACCCGGCAGAGGTATTCAA	1,87
	Jasmonate resistant 1 (JA synthesis)	JAR1b	TCCTTGTTCGCCCTTCTTTG / GCGGAACAAAATCAAATTGC	1,78
	Lipoxygénase (JA synthesis)	LOX	GGGCACCAAGGAGTACAAGGA / GCTCGTGTGGTGTGGATGA	2,18
	Allene oxide synthase 1 (JA synthesis)	AOS	ACCGTGTTCACAGCTACGG / AGCGCTCTATCGTCACCTT	1,92
	Allene oxide synthase 2 (JA synthesis)	AOS	AGGCCGGAGAGAAGTTCCAC / CCGACTTGGTCAGCTCCATC	2,05
	Phosphoinositide-specific phospholipase (lipid signaling)	PLC	CCCGAGAAAGCACGACAT / CCCAAGCTCATCCGAGACA	1,87
Housekeeping genes	Actine	ACT	AGTGGAGGTTCTACCATGTTTCT / CACTGTATTCTTTCAAGTGGGTG	2,52
	RNaseL inhibitor-like	Rli	TTGAGCAACTCATGGACCAG / GCTTTCGAAGGCAACAACAT	2,09
	Heteogeneous nuclear ribonucleoprotein (hn-RNP-Q)	RPN	TCACCTTCGCCAAGCTCAGAAGTA / AGTTGAACCTGCCCGAAAC	2,05

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	<i>Aquaporin</i>	AQP1	TGGTCAGACCACTGGATCTTC / TGGCATCTTCTTGCAGCAG	2,07
Antioxidative complexe	<i>Glutathion peroxidase</i>	GPX	GCGGTGACACCAACATCAAC / GTCAGGTTCTCCAGGTTGG	1,99
	<i>Catalase</i>	CAT	CACCTGGTGGAAGAATGCG / TCACCTCGAAGAAGCCCTTG	1,96
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	<i>Peroxydase (PR-9)</i>	POX2	TGCTTTGTCCAAGGCTGTGA / GACCCGCTTTTGTTCGA	1,97
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	<i>Aminocyclopropane (ACC) oxydase (Et syhtesis)</i>	ACO	TGTCCATCGCTCCTTCTA / CGAACACGAACCTTGGGTAT	1,79
	<i>Ethylene response Factor 3 (Et pathway)</i>	ERF3	GCAATCGGGCAAAGCAAAC / CGAECTCAGAACGAACACGA	2,02
	<i>Ethylene Insensitive3-Like1 (Et pathway)</i>	EIL1b	GGCTCAACAACCTGGATTTT / CCCTGTCCAAGAAACCTC	2,03
	<i>Ethylene signaling pathway (Et pathway)</i>	PIE	GGAGCCACCAAGTCCGTATGA / CACCCGGCAGAGGATTTCAA	1,87
	<i>Jasmonate resistant 1 (JA synthesis)</i>	JAR1b	TCCTCTGTGCGCCTTCTTIG / GCGGAACAAAATCAAAATTGC	1,78
	<i>Lipoxygenase (JA synthesis)</i>	LOX	GGGCACCAAGGAGTACAAGGA / GCTCGTGATGGTGTGGATGA	2,18
	<i>Allene oxide synthase 1 (JA synthesis)</i>	AOS	ACCGTGTTCAACAGCTACGG / AGCGCTCTATCGTCACCTT	1,92
	<i>Allene oxide synthase 2 (JA synthesis)</i>	AOS	AGGCCGGAGAGAAGTTCCAC / CCGACTTGGTCAGCTCCATC	2,05
	<i>Phosphoinositide-specific phospholipase (lipid signaling)</i>	PLC	CCCGGAGAAAGCAGACAT / CCCAAGCTCATCCGAGACA	1,87
Housekeeping genes	<i>Actine</i>	ACT	AGTGGAGGTTCTACCATGTTTCT / CACTGTATTTCCTTCAGGTGGTG	2,52
	<i>RNaseL inhibitor-like</i>	Rli	TTGAGCAACTCATGGACCAG / GCTTTCAAAGGCACAAACAT	2,09
	<i>Heteogeneous nuclear ribonucleoprotein (hn-RNP-Q)</i>	RPN	TCACCTTCGCCAAGCTCAGAACTA / AGTTGAACTTGCCCGAAAC	2,05