

Supplemental Table S2 RLK/Pelle genes that have gained new extracellular domains (ECDs)

Subfamily	Gene	Pfam domain gained in ECD
DUF26	Os11g34624	LysM
L-LEC	Os10g10540, Os12g41270, Os12g41490, Os12g41510, Os12g41530	DUF26
L-LEC	Os12g26940	CHASE
LRK10L-2	At1g66980	GDPD
LRK10L-2	At4g18250, At5g38280	Thaumatin
LysM-II	Poptr_574656	Lectin_legB
RKF3	Phypa_13	LRR_1
RLCK-XI	Poptr_351213, Poptr_701405	LRR_1
RLCK-XI	Poptr_578788	Glyco_hydro_18
SD1	Os02g27310	SCP
SD1	Poptr_578785	Glyco_hydro_18
SD-2b	Os01g02310, Os01g02340, Poptr_544798	Thaumatin

Supplemental Table S3 Summary statistics for regression of subfamily stress responsiveness, F_s , (up-regulation) against the percentage of tandem subfamily members

Stress condition	ρ^a	p-value ^b
<i>Abiotic</i>		
Cold	0.224	0.339
Heat	-0.158	0.505
Drought	-0.427	0.062
Salt	-0.101	0.672
Osmotic	0.544	0.014 ^c
Wounding	0.513	0.022 ^c
UV-B	0.744	2.50E-04
<i>Biotic</i>		
DC3000	0.338	0.144
avrRpm1	0.502	0.025 ^c
HrcC-	0.756	1.70E-04
PspH	0.771	9.92E-05
Flg22	0.770	1.05E-04
HrpZ	0.788	4.99E-05
GST-NPP1	0.779	7.38E-05
<i>P. infestans</i>	0.791	4.34E-05

^aSpearman's rank correlation coefficient.

^bP-values for the significance of the interaction determined using the Spearman's rank test for correlation.

^cNot significant after sequential Bonferroni correction for multiple testing