

Supplementary Table S1. Sequencing information of the samples in the current RNA-seq assay.

Sample name	Raw reads	Clean reads	Clean bases	Error rate(%)	Q20(%)	Q30(%)	GC content(%)
R47_CK_1	139867242	134511230	20.18G	0.02	96.93	92.27	56.72
R47_CK_2	122071112	117533988	17.63G	0.02	96.98	92.39	56.42
R47_CK_3	90972864	87609364	13.14G	0.02	96.85	92.13	56.45
R47_PT_1	111161172	106871764	16.03G	0.02	96.97	92.35	56.87
R47_PT_2	94684754	91438232	13.72G	0.02	96.97	92.36	57.23
R47_PT_3	100430446	96508140	14.48G	0.02	96.94	92.32	57.53
R47_1037_1	105619412	105619412	15.84G	0.02	97.06	92.54	56.86
R47_1037_2	113428678	112161374	16.82G	0.03	96.85	91.77	55.45
R47_1037_3	120811660	119578618	17.94G	0.03	96.41	90.78	55.86
R47_WY_1	110602272	110602272	16.59G	0.02	97.02	92.47	56.53
R47_WY_2	116745456	115465052	17.32G	0.03	96.58	91.16	55.63
R47_WY_3	123319988	122008174	18.3G	0.03	97.00	92.03	54.91

R47_CK: Seedlings of wheat line *Lr47*-Yecora Rojo-BC₆F₅ inoculated with sterile water.

R47_PT: Seedlings of wheat line *Lr47*-Yecora Rojo-BC₆F₅ inoculated with *Pt* pathotype THTT.

R47_1037: Seedlings of wheat line *Lr47*-UC1037 inoculated with *Pt* pathotype THTT.

R47_WY: Seedlings of wheat line *Lr47*-White Yecora inoculated with *Pt* pathotype THTT.

Supplementary Table S2. Assembly information of the samples in the current RNA-seq assay.

Sample name	R47_CK_1	R47_CK_2	R47_CK_3	R47_PT_1	R47_PT_2	R47_PT_3	R47_1037_1	R47_1037_2	R47_1037_3	R47_WY_1	R47_WY_2	R47_WY_3
Total reads	134511230	117533988	87609364	106871764	91438232	96508140	105619412	112161374	119578618	110602272	115465052	122008174
Total mapped	92.90%	92.97%	92.92%	92.72%	93.02%	92.56%	92.89%	93.14%	92.96%	92.82%	93%	92.05%
Multiple mapped	3.94%	3.98%	3.94%	4.09%	4.14%	3.91%	4.10%	3.51%	3.25%	4.16%	3.56%	2.98%
Uniquely mapped	88.96%	89%	88.98%	88.63%	88.88%	88.65%	88.79%	89.63%	89.71%	88.66%	89.45%	89.07%
Read-1	44.79%	44.80%	44.83%	44.61%	44.75%	44.64%	44.67%	44.92%	45.23%	44.64%	44.99%	44.65%
Read-2	44.17%	44.20%	44.15%	44.02%	44.13%	44.01%	44.12%	44.71%	44.48%	44.02%	44.46%	44.42%
Reads map to '+'	44.38%	44.40%	44.39%	44.22%	44.35%	44.23%	44.30%	44.77%	44.79%	44.23%	44.66%	44.48%
Reads map to '-'	44.57%	44.60%	44.59%	44.41%	44.54%	44.42%	44.49%	44.86%	44.91%	44.43%	44.79%	44.59%
Non-splice reads	57.94%	57.93%	57.22%	58.01%	57.90%	58.61%	58.75%	56.70%	58.34%	58.46%	56.88%	59.71%
Splice reads	31.02%	31.07%	31.76%	30.62%	30.99%	30.04%	30.03%	32.93%	31.36%	30.20%	32.57%	29.36%

R47_CK: Seedlings of wheat line *Lr47*-Yecora Rojo-BC6F5 inoculated with sterile water.

R47_PT: Seedlings of wheat line *Lr47*-Yecora Rojo-BC6F5 inoculated with *Pt* pathotype THTT.

R47_1037: Seedlings of wheat line *Lr47*-UC1037 inoculated with *Pt* pathotype THTT.

R47_WY: Seedlings of wheat line *Lr47*-White Yecora inoculated with *Pt* pathotype THTT.

Supplementary Table S3. Primers used in the current study.

Primer name	Sequence 5' to 3'	Gene accession	PCR product	Amplification efficiency
LRR-RLK_AA1807990-qRT-F	GACATTTTCGTCAAACAAGC	TRIAE_CS42_7AS_TGACv1_569126_AA1807990	88 bp	99.0%
LRR-RLK_AA1807990-qRT-R	AAGCATACCAAGACCACC			
LRR-RLK_AA1807960-qRT-F	TAGGTGGGACGCTGGAGT	TRIAE_CS42_7AS_TGACv1_569126_AA1807960	150 bp	112.0%
LRR-RLK_AA1807960-qRT-R	TTATCTGGTTGCCTTGCA			
RPM1_AA1836940-qRT-F	GACATACATGAGGTGCCTAG	TRIAE_CS42_7AS_TGACv1_570514_AA1836940	84 bp	104.0%
RPM1_AA1836940-qRT-R	GAGTCCCTTCACATTCCA			
LRR-RLK_AA1822740-qRT-F	GGTTTGGGCTCAAGGATA	TRIAE_CS42_7AS_TGACv1_569722_AA1822740	81 bp	112.0%
LRR-RLK_AA1822740-qRT-R	AGGACATTGCGTGGTTTC			
WAK2_AA1839280-qRT-F	TGGCCCGGTGACCACAAA	TRIAE_CS42_7AS_TGACv1_570678_AA1839280	155 bp	95.9%
WAK2_AA1839280-qRT-R	AGAACGACACGCAGCCTCCC			
L-type RLK_AA1946750-qRT-F	CGTCGGTGGCACCCTTACA	TRIAE_CS42_7BS_TGACv1_592960_AA1946750	199 bp	92.2%
L-type RLK_AA1946750-qRT-R	CACTGAACTTGGCTGACCAGATAGA			
ZmPK1_AA1953360-qRT-F	CAACCTTGTCGTCGTGGAT	TRIAE_CS42_7BS_TGACv1_593644_AA1953360	294 bp	98.0%
ZmPK1_AA1953360-qRT-R	TGTTGAAGAACAGCATAGCG			
LRR-RLK_AA2043410-qRT-F	AGCAAGCATCCCAGAATC	TRIAE_CS42_7DS_TGACv1_622658_AA2043410	86 bp	100.9%
LRR-RLK_AA2043410-qRT-R	TCATGGTAGTCAAGTCGGTTA			
TaPR1a-qRT-F	GCGGTGAAGCTGTGGGTGGA	FJ815169	180 bp	94.4%
TaPR1a-qRT-R	GGGCTCGTAGTTGCAGGTGATGA			
TaActin-qRT-F	ACCTTCAGTTGCCCAGCAAT	AB181991	91 bp	102.6%
TaActin-qRT-R	CAGAGTCGAGCACAATACCAGTTG			