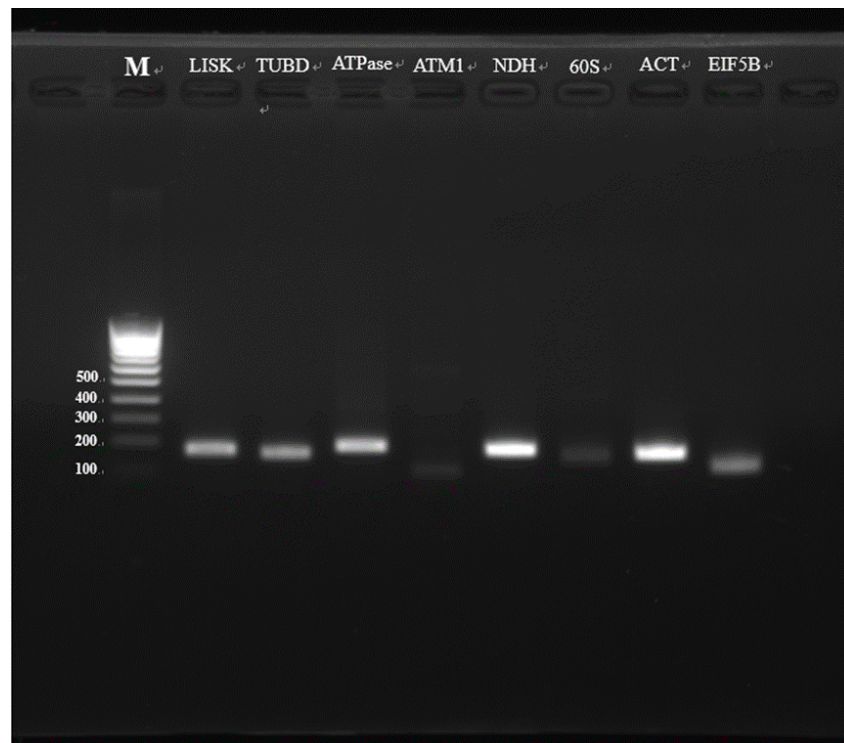
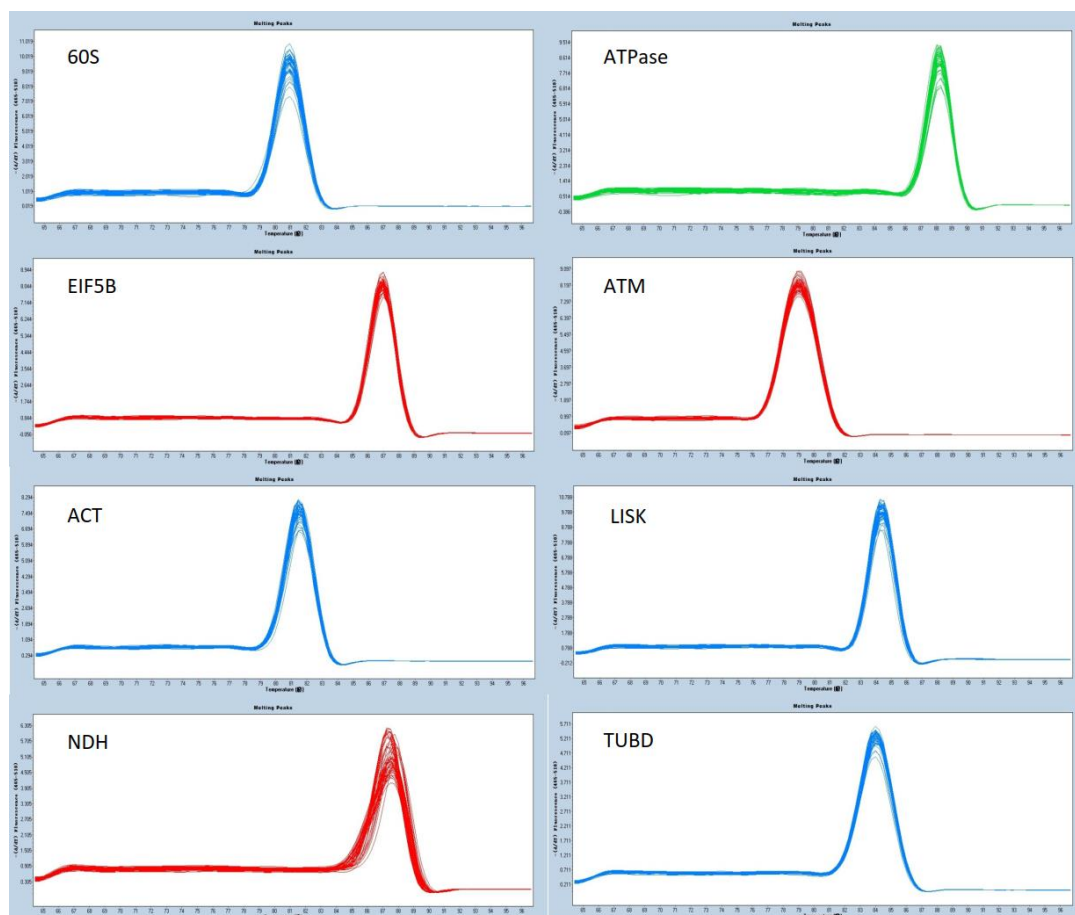


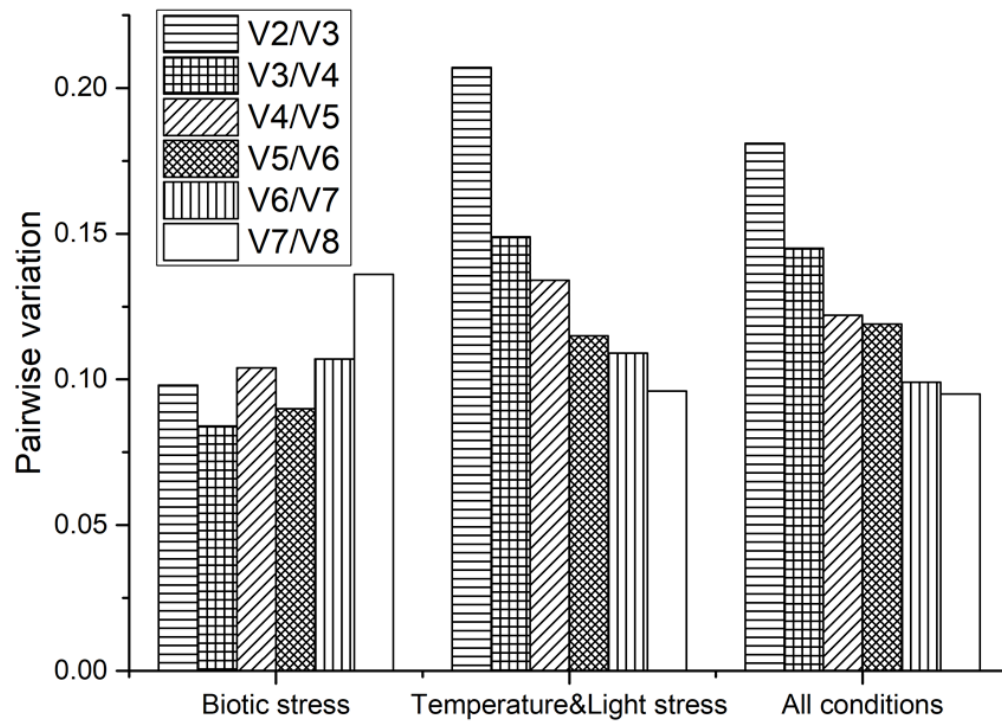
Supplementary Fig 1. Agarose gel electrophoresis of RT-PCR products of the 8 candidate reference genes.



Supplementary Fig 2. qPCR melting curves of the eight candidate reference genes.



Supplementary Fig 3. Pairwise variation (V) of the candidate reference genes calculated by geNorm to establish the optimal number of reference genes according to stress condition.



Supplementary Table 1. geNorm ranking and M values for the 8 candidate reference genes

Rank	All stress		Light & temperature stress		Biotic stress	
	Gene	M value	Gene	M value	Gene	M value
1	EIF5B	0.48	ACT	0.46	ATPase	0.16
2	NDH	0.48	NDH	0.46	EIF5B	0.16
3	ATPase	0.55	EIF5B	0.58	LISK	0.25
4	LISK	0.61	ATM1	0.63	TUBD	0.31
5	TUBD	0.65	60S	0.69	60S	0.40
6	ATM1	0.71	ATPase	0.73	NDH	0.47
7	60S	0.74	TUBD	0.77	ATM1	0.56
8	ACT	0.77	LISK	0.80	ACT	0.70

Supplementary Table 2. Ranking and expression stability of the 8 candidate reference genes calculated by NormFinder

Rank	All stress		Light & temperature stress		Biotic stress	
	Gene	Stability	Gene	Stability	Gene	Stability
1	NDH	0.33	NDH	0.31	ATPase	0.22
2	EIF5B	0.39	EIF5B	0.45	EIF5B	0.33
3	ATPase	0.43	ATM1	0.45	60S	0.35
4	TUBD	0.57	ATPase	0.52	LISK	0.44
5	ATM1	0.61	TUBD	0.675	NDH	0.5
6	60S	0.62	60S	0.69	TUBD	0.52
7	LISK	0.65	ACT	0.69	ATM1	0.68
8	ACT	0.73	LISK	0.74	ACT	0.97

Supplementary Table 3. Ranking and expression stability of the 8 candidate reference genes calculated by BestKeeper

Rank	All stress			Light & temperature stress			Biotic stress		
	Gene	SD	CV	Gene	SD	CV	Gene	SD	CV
1	ATPase	0.30	1.25	ATPase	0.21	0.89	EIF5B	0.30	1.24
2	EIF5B	0.40	1.64	EIF5B	0.39	1.60	LISK	0.29	1.46
3	NDH	0.43	1.76	NDH	0.42	1.71	ATPase	0.36	1.54
4	60S	0.58	1.97	ATM1	0.48	1.93	60S	0.54	1.82
5	TUBD	0.51	2.07	60S	0.58	1.99	NDH	0.47	1.96
6	LISK	0.47	2.25	TUBD	0.50	2.02	TUBD	0.48	1.96
7	ATM1	0.73	2.91	LISK	0.50	2.42	ATM1	0.96	3.81
8	ACT	0.73	3.19	ACT	0.69	2.96	ACT	1.03	4.45

Supplementary Table 4. Ranking and expression stability of the 8 candidate reference genes calculated by Δ Ct method

Rank	All stress		Light & temperature stress		Biotic stress	
	Gene	MeanSD	Gene	MeanSD	Gene	MeanSD
1	NDH	0.67	NDH	0.67	ATPase	0.51
2	EIF5B	0.69	EIF5B	0.74	EIF5B	0.55
3	ATPase	0.71	ATM1	0.75	LISK	0.61
4	TUBD	0.79	ATPase	0.79	60S	0.63
5	ATM1	0.82	ACT	0.87	TUBD	0.66
6	60S	0.83	TUBD	0.87	NDH	0.70
7	LISK	0.83	60S	0.88	ATM1	0.88
8	ACT	0.89	LISK	0.91	ACT	1.14

Supplementary Table 5. Comprehensive ranking of the expression stability of the 8 candidate reference genes

Method	1	2	3	4	5	6	7	8
RANKING ORDER UNDER ALL STRESS								
geNorm	EIF5B NDH		ATPase	LISK	TUBD	ATM1	60S	ACT
NormFinder	NDH	EIF5B	ATPase	TUBD	ATM1	60S	LISK	ACT
BestKeeper	ATPase	EIF5B	NDH	LISK	TUBD	60S	ATM1	ACT
Δ Ct method	NDH	EIF5B	ATPase	TUBD	ATM1	60S	LISK	ACT
Comprehensive ranking	NDH	EIF5B	ATPase	TUBD	LISK	ATM1	60S	ACT
RANKING ORDER UNDER TEMPERATURE AND LIGHT STRESS								
geNorm	ACT NDH		EIF5B	ATM1	60S	ATPase	TUBD	LISK
NormFinder	NDH	EIF5B	ATM1	ATPase	TUBD	60S	ACT	LISK
BestKeeper	ATPase	EIF5B	NDH	ATM1	TUBD	LISK	60S	ACT
Δ Ct method	NDH	EIF5B	ATM1	ATPase	ACT	TUBD	60S	LISK
Comprehensive ranking	NDH	EIF5B	ATPase	ATM1	ACT	TUBD	60S	LISK
RANKING ORDER UNDER BIOTIC STRESS								
geNorm	EIF5B ATPase		LISK	TUBD	60S	NDH	ATM1	ACT
NormFinder	ATPase	EIF5B	60S	LISK	NDH	TUBD	ATM1	ACT
BestKeeper	LISK	EIF5B	ATPase	NDH	TUBD	60S	ATM1	ACT
Δ Ct method	ATPase	EIF5B	LISK	60S	TUBD	NDH	ATM1	ACT
Comprehensive ranking	ATPase	EIF5B	LISK	60S	TUBD	NDH	ATM1	ACT