

Table1 Suppl. Primer sequences and amplified product characteristics of six candidate reference genes in *Rehmannia chingii* (*Rc*) and *R. henryi* (*Rh*). *TIP41* - type 2A phosphatase activator *TIP41*, *UBQ* - ubiquitin, *18S* - 18S ribosomal RNA, *GAPDH* - glyceraldehyde 3-phosphate dehydrogenase, *EF-1 α* - elongation factor 1-alpha.

Gene	Primer sequence (5'-3')	Amplicon length [bp]	Melting temperature [°C]	R^2	PCR efficiency (E) [%]	Slope
<i>RcTIP41</i>	F:AAGAGCAGCTTCAGACTTCC R:GAATTTCCATTGAGCAGCCG	176	83.0	0.998	102.0	-3.275
<i>RcUBQ</i>	F:AGTGCAGTCTATGGTCTTCG R:AGGTCGGAGTAGTCTCGCTA	153	80.5	0.964	102.1	-3.274
<i>RcActin</i>	F:AAAGGACCAGCTCCAGTTTC R:TCCTTCAGCTAAGGTTCTGC	192	80.5	0.983	101.8	-3.280
<i>Rc18S</i>	F:AGCAAGGGCAGTGTTACAAG R:GCACTACTTAGTGACGGTGG	174	82.5	0.951	92.2	-3.525
<i>RcGAPDH</i>	F:CCGAGTTCCCACTGTTGATG R:ATGCCCTTGAGCTTGTTCTC	120	82.5	0.999	96.6	-3.407
<i>RcEF-1α</i>	F:ACGGCCCGAAGTTGTTATAG R:GATATCACCTCTGAGGCAACTG	168	81.5	0.992	101.7	-3.282
<i>RhTIP41</i>	F:GTTTCTAATTCGCGGTTGGG R:GGCAAGTGGGAAGTCTGAAG	102	82.0	0.988	109.2	-3.119
<i>RhUBQ</i>	F:AGTCACAGGAGACCAGTACC R:CGCAAATAATCCAACGGAGC	183	86.5	0.980	101.7	-3.283
<i>RhActin</i>	F:GTGAGGAGATGCAGAAGCAA R:CCTCGTGTGTTCACTGACAA	103	78.5	0.979	107.9	-3.147
<i>Rh18S</i>	F:AGCAAGGGCAGTGTTACAAG R:GACCACAAGTGAGGACAAGG	155	82.0	0.985	102.0	-3.274
<i>RhGAPDH</i>	F:TGCCATCAAGGAAGAATCGG R:CCTTGGCATCGAAAATGCTC	116	82.0	0.996	99.6	-3.330
<i>RhEF-1α</i>	F:CTGCTAAACGGTCAGAGTCC R:CGAAGACGCAGTTTTACAC	134	80.0	0.983	98.3	-3.362

Table 2 Suppl. Correlation analysis of fragments per kilobase of transcript per million fragments mapped values of four verification genes, and relative gene expressions in *Rehmannia chingii* (*Rc*) under different conditions. *4CL* - 4-Coumarate-CoA ligase, *ERF* - ethylene-responsive transcription factor, *C4H* - cinnamic acid 4-hydroxylase, *PAL* - phenylalanine ammonia-lyase. For the names of other genes see Table 1 Suppl.

	<i>RcTIP41</i>	<i>Rc18S</i>	<i>RcTIP41+Rc18S</i>	<i>RcGAPDH</i>
<i>Rc4CL</i>	0.99**	0.99**	0.99**	0.99**
<i>RcERF</i>	0.91**	0.87*	0.89**	0.88**
<i>RcC4H</i>	0.95**	0.97**	0.97**	0.21
<i>RcPAL</i>	0.88**	0.94**	0.91**	0.18

Table 3 Suppl. Correlation analysis of fragments per kilobase of transcript per million fragments mapped values of four verification genes, and relative gene expressions in *Rehmannia henryi* (*Rh*) under different conditions. *EXPA8* - expansin-A8. For the names of other genes see Table 1 Suppl. and Table 2 Suppl..

	<i>Rh18S</i>	<i>RhActin</i>	<i>Rh18S+RhActin</i>	<i>RhUBQ</i>
<i>RhERF</i>	0.98**	0.98**	0.99**	0.11
<i>RhEXPA8</i>	0.98**	0.99**	0.99**	0.04
<i>RhC4H</i>	0.97**	0.92**	0.96**	-0.06
<i>RhPAL</i>	0.91**	0.82*	0.87*	-0.05

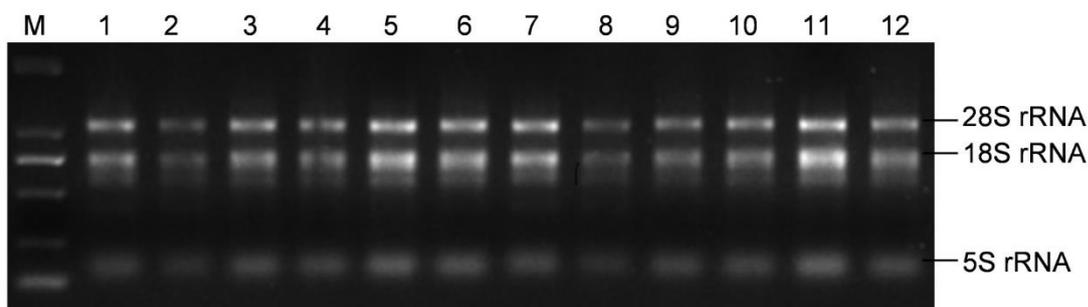


Fig. 1 Suppl. Agarose gel electrophoresis of total RNA from *Rehmannia chingii* and *R. henryi* samples. Lane M - DL2000 DNA marker, lane 1 - corolla RNA of *R. chingii* C1 period, lane 2 - corolla RNA of *R. chingii* C2 period, lane 3 - corolla RNA of *R. chingii* C3 period, lane 4 - corolla RNA of *R. chingii* C4 period, lane 5 - corolla RNA of *R. chingii* C5 period, lane 6 - leaf RNA of *R. chingii*, lane 7 - corolla RNA of *R. henryi* C1 period, lane 8 - corolla RNA of *R. henryi* C8 period, lane 9 - corolla RNA of *R. henryi* C3 period, lane 10 - corolla RNA of *R. henryi* C4 period, lane 11 - corolla RNA of *R. henryi* C4 period, lane 12 - leaf RNA of *R. henryi*.

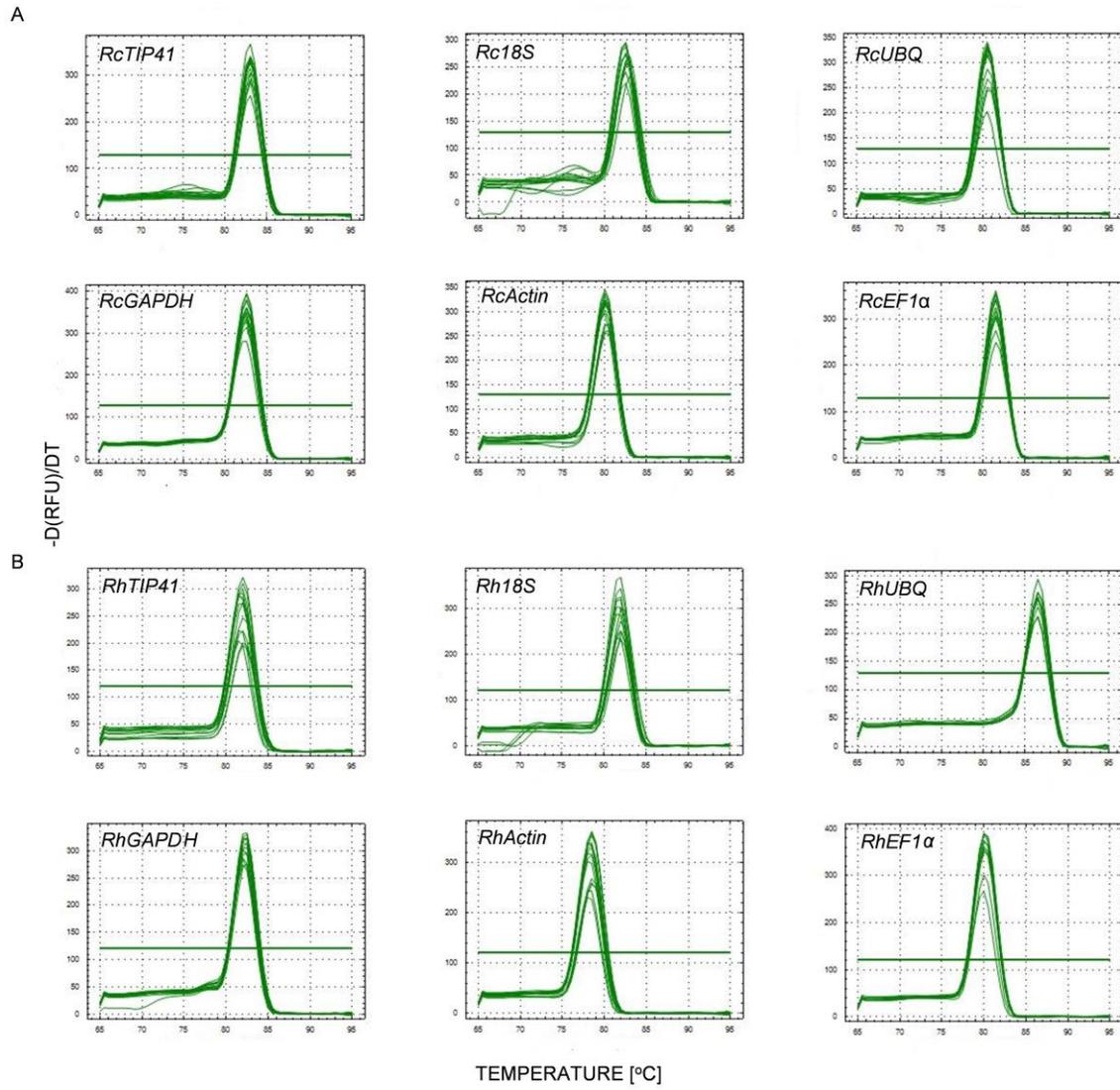


Fig. 2 Suppl. Melting curves of candidate reference gene primers. *A* - *Rehmannia chingii*, *B* - *R. henryi*.