

Table 1 Suppl. The primer sequences and amplified characteristics of five candidate reference genes for *Salsola laricifolia* used in reverse transcription quantitative real-time PCR.

Gene symbol	Gene name	Primer sequence (5'-3')	Tm [°C]	Amplicon length [bp]	Efficiency [%]	Correlation coefficient
<i>18S</i>	<i>ribosomal RNA 18S</i>	F: GGGCATTTCGTATTTTCATAGTCA R: CGGCATCGTTTATGGTTGA	55	159	104.1	0.9972
<i>TUB</i>	<i>tubulin</i>	F: CCATACCCCAGGATTCACCTC R: CACACTTTGCCATCATAGACGA	55	136	99.5	0.9862
<i>ACT</i>	<i>actin</i>	F: TCCACGAAACAACCTACAACCTC R: CAGCAATACCGGGGAACAT	55	111	95.3	0.9991
<i>EF1a</i>	<i>elongation factor 1-alpha</i>	F: TCAGTTTGGTGGTTATTGGACA R: ACCTCTTGTTTCATCTCAGCAGC	55	135	97.7	0.9991
<i>GAPDH</i>	<i>glyceraldehyde-3-phosphate dehydrogenase</i>	F: AACGAGCACGAATACAAGTCAG R: AGCCCCCTCAAGAATACCGA	55	116	99.5	0.9986

Table 2 Suppl. Gene expression stability ranked by *geNorm*, *NormFinder*, *BestKeeper*, and *RefFinder*. SD - standard deviation of the quantification cycles (Cq), CV - coefficient of variance expressed as a percentage of Cq.

Treatment	Rank	geNorm		NormFinder		BestKeeper			RefFinder		Most stable	Best combination	Least stable
		Gene	Stability	Gene	Stability	Gene	SD	CV	Gene	Stability			
Control	1	<i>18S</i>	0.759	<i>18S</i>	0.251	<i>18S</i>	0.60	3.98	<i>18S</i>	1.57	<i>18S</i>	<i>18S + EF1a</i>	<i>TUB</i>
	2	<i>EF1a</i>	0.895	<i>EF1a</i>	0.539	<i>EF1a</i>	0.75	4.22	<i>EF1a</i>	2.00			
	3	<i>GAPDH</i>	0.974	<i>GAPDH</i>	0.600	<i>GAPDH</i>	0.90	4.43	<i>GAPDH</i>	2.59			
	4	<i>ACT</i>	1.051	<i>ACT</i>	0.693	<i>ACT</i>	1.06	4.58	<i>ACT</i>	2.63			
	5	<i>TUB</i>	1.485	<i>TUB</i>	1.191	<i>TUB</i>	1.58	5.36	<i>TUB</i>	4.73			
ABA	1	<i>GAPDH</i>	0.638	<i>GAPDH</i>	0.061	<i>EF1a</i>	0.56	1.92	<i>GAPDH</i>	1.41	<i>GAPDH</i>	<i>GAPDH</i>	<i>+18S</i>
	2	<i>EF1a</i>	0.647	<i>EF1a</i>	0.062	<i>GAPDH</i>	0.57	2.99	<i>EF1a</i>	1.57			
	3	<i>18S</i>	0.749	<i>TUB</i>	0.338	<i>TUB</i>	0.63	2.39	<i>TUB</i>	2.28			
	4	<i>TUB</i>	0.983	<i>ACT</i>	1.023	<i>ACT</i>	1.05	3.01	<i>ACT</i>	4.00			
	5	<i>ACT</i>	1.454	<i>18S</i>	2.551	<i>18S</i>	1.51	4.78	<i>18S</i>	5.00			
Dark	1	<i>GAPDH</i>	0.723	<i>GAPDH</i>	0.414	<i>GAPDH</i>	0.45	1.67	<i>GAPDH</i>	1.00	<i>GAPDH</i>	<i>GAPDH</i>	<i>+ACT</i>
	2	<i>18S</i>	0.838	<i>18S</i>	0.491	<i>18S</i>	0.61	3.33	<i>18S</i>	2.06			
	3	<i>EF1a</i>	0.913	<i>EF1a</i>	0.529	<i>EF1a</i>	0.74	4.01	<i>EF1a</i>	2.45			
	4	<i>TUB</i>	1.083	<i>TUB</i>	0.931	<i>TUB</i>	1.11	4.69	<i>TUB</i>	4.00			
	5	<i>ACT</i>	1.474	<i>ACT</i>	1.436	<i>ACT</i>	1.46	6.13	<i>ACT</i>	5.00			
NaCl	1	<i>EF1a</i>	0.701	<i>EF1a</i>	0.199	<i>ACT</i>	0.42	1.70	<i>EF1a</i>	1.32	<i>EF1a</i>	<i>EF1a + TUB</i>	<i>GAPDH</i>
	2	<i>TUB</i>	0.774	<i>TUB</i>	0.321	<i>TUB</i>	0.46	2.06	<i>TUB</i>	1.73			
	3	<i>ACT</i>	0.811	<i>ACT</i>	0.394	<i>EF1a</i>	0.48	2.54	<i>ACT</i>	2.38			
	4	<i>18S</i>	0.861	<i>18S</i>	0.464	<i>18S</i>	0.48	2.79	<i>18S</i>	3.72			
	5	<i>GAPDH</i>	0.971	<i>GAPDH</i>	0.580	<i>GAPDH</i>	0.82	5.46	<i>GAPDH</i>	5.00			
NaHCO ₃	1	<i>TUB</i>	0.695	<i>TUB</i>	0.256	<i>18S</i>	0.26	1.94	<i>TUB</i>	1.41	<i>TUB</i>	<i>TUB+ 18S</i>	<i>ACT</i>
	2	<i>18S</i>	0.740	<i>18S</i>	0.313	<i>ACT</i>	0.50	2.32	<i>18S</i>	1.86			
	3	<i>EF1a</i>	0.776	<i>EF1a</i>	0.382	<i>EF1a</i>	0.51	2.46	<i>EF1a</i>	2.28			
	4	<i>GAPDH</i>	0.829	<i>GAPDH</i>	0.440	<i>TUB</i>	0.52	2.70	<i>GAPDH</i>	3.98			
	5	<i>ACT</i>	0.891	<i>ACT</i>	0.509	<i>GAPDH</i>	0.69	3.00	<i>ACT</i>	4.23			
PEG	1	<i>EF1a</i>	0.749	<i>EF1a</i>	0.271	<i>EF1a</i>	0.72	3.89	<i>EF1a</i>	1.00	<i>EF1a</i>	<i>EF1a</i>	<i>+ACT</i>
	2	<i>GAPDH</i>	0.830	<i>GAPDH</i>	0.583	<i>18S</i>	0.92	4.91	<i>GAPDH</i>	1.68			
	3	<i>18S</i>	0.837	<i>18S</i>	0.586	<i>GAPDH</i>	0.98	4.97	<i>18S</i>	3.00			
	4	<i>TUB</i>	1.462	<i>TUB</i>	1.496	<i>ACT</i>	1.24	6.39	<i>TUB</i>	4.23			
	5	<i>ACT</i>	1.481	<i>ACT</i>	1.508	<i>TUB</i>	2.39	9.20	<i>ACT</i>	4.73			
All samples	1	<i>EF1a</i>	0.715	<i>EF1a</i>	0.418	<i>EF1a</i>	0.69	3.52	<i>EF1a</i>	1.57	<i>EF1a</i>	<i>EF1a + 18S</i>	<i>TUB</i>
	2	<i>18S</i>	0.766	<i>18S</i>	0.452	<i>18S</i>	0.72	3.58	<i>18S</i>	2.00			
	3	<i>GAPDH</i>	0.842	<i>GAPDH</i>	0.687	<i>GAPDH</i>	0.82	5.92	<i>GAPDH</i>	2.59			
	4	<i>ACT</i>	1.194	<i>ACT</i>	0.844	<i>ACT</i>	1.25	5.79	<i>ACT</i>	2.63			
	5	<i>TUB</i>	1.372	<i>TUB</i>	1.459	<i>TUB</i>	1.38	5.32	<i>TUB</i>	4.73			

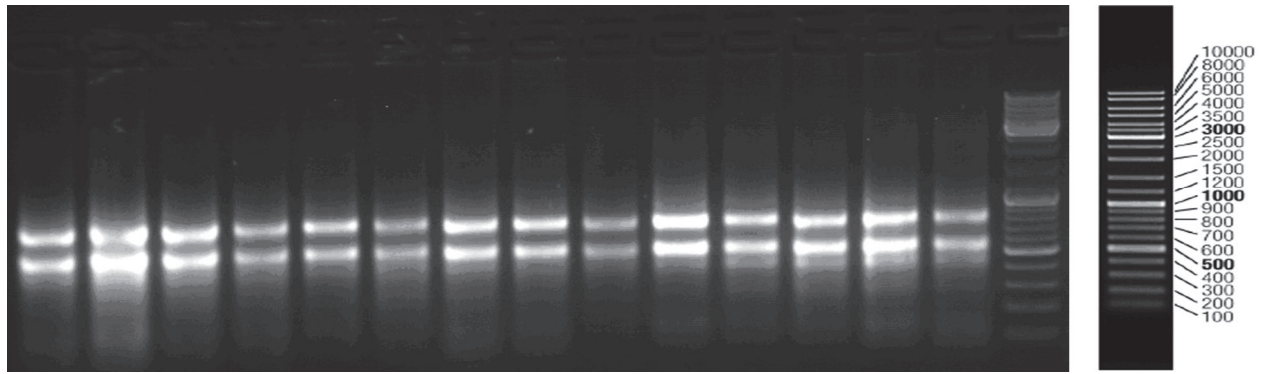


Fig. 1 Suppl. The total RNA extraction results detected by gel electrophoresis for parts of dark stressed samples. From the *left to right*: control-1, control-2, 0.5 h dark stress-1, 0.5 h dark stress-2, 1h dark stress-1, 1 h dark stress-2, 2 h dark stress-1, 2 h dark stress-2, 6 h dark stress-1, 6 h dark stress-2, 12 h dark stress-1, 12 h dark stress-2.

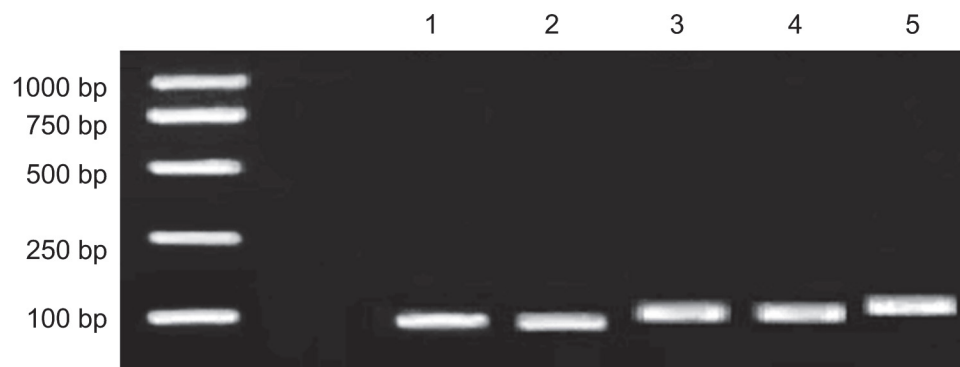


Fig. 2 Suppl. Normal PCR products of five candidate reference genes from *Salsola laricifolia*. Lanes 1, 2, 3, 4, and 5 are genes *actin*, *glyceraldehyde-3-phosphate dehydrogenase*, *tubulin*, *elongation factor 1-alpha*, and *18S ribosomal RNA*, respectively.

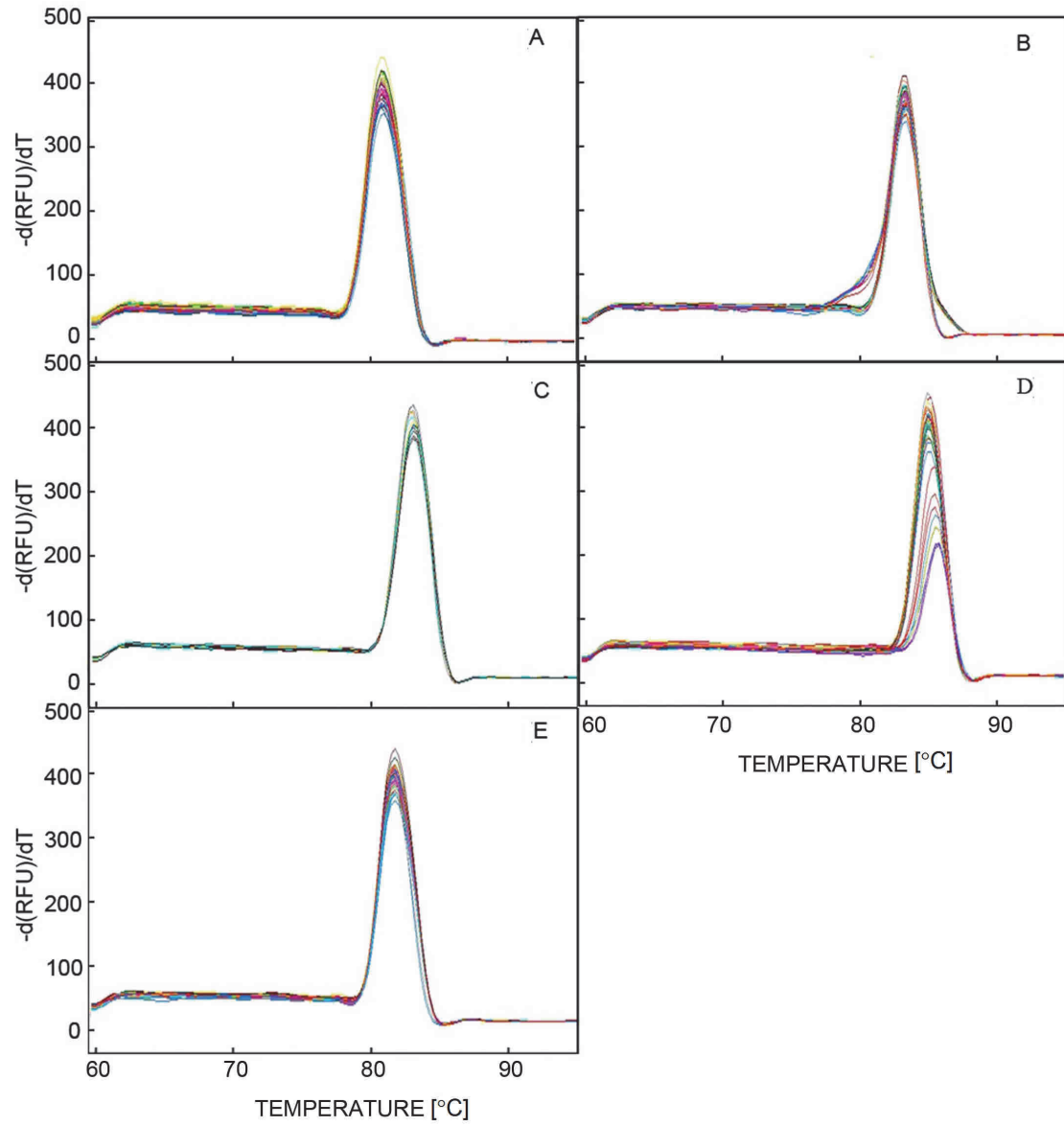


Fig. 3 Suppl. Melting curves with a single melt peak in quantitative PCR. *A* - *actin*, *B* - *elongation factor 1-alpha*, *C* - *glyceraldehyde-3-phosphate dehydrogenase*, *D* - *tubulin*, and *E* - *18S ribosomal RNA*.