

Supplementary Table S1. Physicochemical properties of the GRAS family of *S. baicalensis*

Gene Name	AA	Molecular Weight (Da)	Instability Index	Aliphatic Index	cDNA Legth (bp)	pI	GRAVY
SbGRAS1	568	62231.11	46.79	81.06	1707	4.97	-0.238
SbGRAS2	568	62197.42	36.21	83.33	1707	4.94	-0.196
SbGRAS3	376	41328.76	47.39	87.42	1131	5.2	-0.149
SbGRAS4	749	83893.84	53.27	72.14	2250	5.01	-0.497
SbGRAS5	751	83970.55	46.1	75.87	2256	6.04	-0.432
SbGRAS6	744	84230.14	44.09	76.56	2235	5.83	-0.481
SbGRAS7	747	84916.85	42.36	78.3	2244	6.27	-0.524
SbGRAS8	635	71611.9	47.14	71.89	1908	6.55	-0.52
SbGRAS9	554	63609.06	56.94	69.68	1665	6.18	-0.622
SbGRAS10	397	45654.31	49.68	78.36	1194	9.04	-0.434
SbGRAS11	518	58684.02	52.01	79.98	1557	5.36	-0.445
SbGRAS12	510	57513.57	46.04	84.53	1533	6.04	-0.236
SbGRAS13	499	55283.01	48.17	78.98	1500	5.78	-0.295
SbGRAS14	509	57398.09	52.18	85.25	1530	5.61	-0.284
SbGRAS15	556	62161.92	44.84	79.48	1671	4.94	-0.355
SbGRAS16	507	55901.12	48.11	91.6	1524	6.26	-0.048
SbGRAS17	584	64308.59	55.55	76.08	1755	5.09	-0.291
SbGRAS18	421	47678.09	55.87	95.91	1266	5.87	-0.068
SbGRAS19	516	58480.64	59.25	79.09	1551	6	-0.512
SbGRAS20	528	59462.34	56.07	90.15	1587	5.22	-0.305
SbGRAS21	819	92258.52	49.85	96.34	2460	5.14	-0.124
SbGRAS22	403	45732.04	44.96	92.51	1212	6.65	-0.107
SbGRAS23	421	47693.08	55.61	94.32	1266	6.3	-0.198
SbGRAS24	298	33080.63	38.49	85.44	897	5.47	-0.106
SbGRAS25	414	45195.72	46.58	99.47	1245	5.69	-0.075
SbGRAS26	352	38417.8	50.27	90.94	1059	6.07	-0.028
SbGRAS27	374	41183.03	43.47	87.91	1125	5.64	-0.087
SbGRAS28	466	52207.28	38.94	82.92	1401	6.31	-0.272
SbGRAS29	589	64779.34	53.24	77.16	1770	6.64	-0.418
SbGRAS30	619	67559.93	57.75	75.96	1860	6.37	-0.408
SbGRAS31	753	85500.48	46.76	91.3	2262	4.93	-0.211
SbGRAS32	415	46441.45	30.51	94.43	1248	6.88	-0.132
SbGRAS33	476	53114.45	54.38	76.07	1431	5.58	-0.351
SbGRAS34	476	53895.39	52.86	72.37	1431	5.4	-0.44
SbGRAS35	476	53105.44	55.3	76.07	1431	5.53	-0.351
SbGRAS36	463	52662.59	41.83	81.08	1392	6.01	-0.424
SbGRAS37	578	65954.41	42.12	90.42	1737	6.42	-0.216
SbGRAS38	466	52886.47	39.44	87.92	1401	5.71	-0.256
SbGRAS39	499	55389.34	41.75	80.76	1500	5.16	-0.237
SbGRAS40	516	58369.31	47.29	80.74	1551	5.69	-0.278
SbGRAS41	415	46707.11	42.05	82	1248	5.1	-0.301
SbGRAS42	467	51816.4	44.93	91.61	1404	5.7	-0.085
SbGRAS43	448	50365.7	39.61	85.16	1347	5.85	-0.151
SbGRAS45	544	61174.63	41.43	82.13	1635	5.88	-0.232
SbGRAS46	363	40921.11	60.71	86.01	1092	6.62	-0.176
SbGRAS47	492	55635.16	49.8	82.22	1479	4.99	-0.23

SbGRAS48	770	83238.83	54.25	79.7	2313	6.08	-0.262
SbGRAS49	504	56446.29	46.38	71.23	1515	6.1	-0.546
SbGRAS50	471	53853.17	37.67	90.23	1416	6.05	-0.139
SbGRAS51	518	57437.17	48.51	89.63	1557	5.59	-0.143
SbGRAS52	243	27320.3	35.61	85.93	732	6.17	-0.043
SbGRAS53	660	70807.43	60.95	80.29	1983	5.58	-0.155
SbGRAS54	366	42057.59	53	79.67	1101	4.92	-0.374
SbGRAS55	191	22115.44	46.58	78.64	576	9	-0.539
SbGRAS56	480	53065.43	50.56	92.52	1443	5.69	-0.002
SbGRAS57	579	65689.85	34.19	83.06	1740	9.56	-0.428
SbGRAS58	486	56754.4	50.14	79.24	1461	4.96	-0.385
