

**Table S1** The 191 DE-circRNAs screened from the GSE169594 dataset

ID	adj.P.Val	P.Value	t	B	logFC	SEQUENCE
ASCRP3010807	0.519	0.0049996	3.831635	-1.8988	5.3093478	TACTTGCGCTGCATGTGCCATAGGCCCATTTGAGTATTTGTTTTCAATTAGGGAGATAG
ASCRP3004792	0.519	0.0035226	4.081286	-1.6407	4.5748006	CATGTGCCATGTGCGCTGGTTCTAGGAATAATGGGGGAAGTATGTAGGAGTTGAAGATTA
ASCRP3012480	0.519	0.0044896	3.907665	-1.8189	3.8901036	TGGGCCATACGGTAGTATTTAGTTGGGGCATTATGTGATTAGGAGTAGGGTTAGGATGA
ASCRP3000368	0.473	0.002252	4.410168	-1.3193	2.9176593	AACAATCACCAGGCTCGGGTTATGTATGATTTTGTCTGCTGAACCTGGAAATAATGAACCTG
ASCRP3001027	0.561	0.0111901	3.279208	-2.5109	2.7838779	ACAAGTTGGATATTCGAATGTTCTTTGTGGTTTTGGCAAATTTGTCATATCAAGAAGCA
ASCRP3001166	0.941	0.2428758	1.26082	-4.9031	2.5398629	ACAGTTAAAGAAGAAATCTGAAGAGGAAAAGAATGAAAAGATAAGGAGTCTAGAAACCAA
ASCRP3003503	0.561	0.0112289	3.276892	-2.5136	2.2582307	CAACAACCGCTTGAATGCTGCAACAATGACTTAATTCAGTGCACAAATGAGATGAATGT
ASCRP3000495	0.578	0.0169489	3.004203	-2.8344	2.0646497	AACTCTTACTTACATGTCTCATCGAACTCCAGAACAACATCAAAAGAGCCAACACAGA
ASCRP3001059	0.656	0.0269642	2.70221	-3.2006	2.0490843	ACACCAGGAAAGAAAAATGCCTGTCTTAAAGGCTGAAGCGTCACATTATAACTCTGACT
ASCRP3012300	0.473	0.0006761	5.359988	-0.5068	2.0416799	TGGACAACAGAAGACTGGACTGAAGATAACTGGCATCAAATACTCACAACATAGCTCAGG
ASCRP3011209	0.473	0.0005485	5.536109	-0.3741	2.0335632	TCAGAGCCTGAACTGGCATCAAATACTCACAACATAGCTCAGGATCTGTCAAACAAAAGT
ASCRP3004521	0.544	0.0075895	3.541949	-2.213	2.0099575	CATAAAGGCAGCTTTGAAACACTCCTAAAAGACGACGGCCTGCACGTTCAATTTTTGATG
ASCRP3007020	0.544	0.006712	3.626392	-2.1198	2.00225	CTTCGGGGAGGTGAGTCCAGAGAACGGGGCTCCGCGCGAGGTCTGAGACTAGGGCCAG
ASCRP3013169	0.561	0.010291	3.335393	-2.4462	1.9904484	TTGAGCGCATTGCATCACATGATTTTGACCCACAGGTTTCCCCTCAAAAAACCTATAAG
ASCRP3011287	0.57	0.0156763	3.055496	-2.7732	1.9660615	TCATGATCATCATAGGAGTGGAGAACATGCACAAGTCAACTTTGTAGTGTGCCAACTCTT
ASCRP3008499	0.575	0.016398	3.025894	-2.8085	1.9343917	GATATGGGATGAGAAAGTTCAAGTCAACTTTGTAGTGTGCCAACTCTTGCCTTGCTAGC
ASCRP3006957	0.473	0.0005334	5.559908	-0.3565	1.8954451	CTTCAGCGGATTTGGGGATTAGGCTCTTTTAGGAGAAGTACAGCATCGGGGAGCCACAG
ASCRP3002800	0.473	0.0010684	4.986563	-0.8062	1.8926314	ATCATGGTCCTGGGATACCTCAGACAATGGCAGCTTTTGGATTGAAATATTTGCTGAATG
ASCRP3011131	0.575	0.0164536	3.023671	-2.8111	1.8150551	TCAAGAACAGTAAAGTTGGAACACAGCAGAGGGTGTGTAATAAAATACAGCGTGACGACA
ASCRP3011389	0.567	0.0144713	3.10824	-2.7107	1.813903	TCCCTGAGCTTCGGGGAGGTGAGTCCAGAGAACGGGGCTCCGCGCGAGCTCATCAGTG
ASCRP3012020	0.564	0.0135939	3.149624	-2.662	1.7813205	TGATTTGATGCATAAAGGCAGCTTTGAAACAAAGAAGTTCGTGCCCAATTCCTCAAAG
ASCRP3000074	0.567	0.0149145	3.088324	-2.7343	1.7778091	AAAAGCAGGAAATACTGGTGAACCAGAACCATTATTTGGTGGTGAAGTGAAGTGTAG
ASCRP3001047	0.473	0.0015016	4.718806	-1.0367	1.7769406	ACACACCATCATGGGATACCTCAGACAATGGCAGCTTTTGGATTGAAATATTTGCTGAAT
ASCRP3007104	0.473	0.0014478	4.747132	-1.0117	1.764434	CTTGGAAGAATTCTGTGGAAGAGTGGACAACAGAAGACTGGACTGAAGATGATTTGGACG
ASCRP3001875	0.561	0.0104385	3.325826	-2.4572	1.7609216	AGAGCGAGAAAAGAAAACAGCTGGAGACCCTGAAGGAAGATTGGGAATCTGAAAAAGATT
ASCRP3004864	0.561	0.0131517	3.171556	-2.6362	1.7499806	CATTGATTTGATGCATAAAGGCAGCTTTGAAACAAGAAGAAGTTCGTGCCCAATTCCTC
ASCRP3003552	0.561	0.0121473	3.224393	-2.5745	1.7307824	CAACCAAAGGTTGCACCAACAACCGCTTGAATGCTGCAACAATGGATTCACTCCTTCTC
ASCRP3011746	0.703	0.039852	2.451031	-3.5107	1.7126169	TGAAAGGAGAGCAAGAATCTCATAGAGCCAACACAGATCTATAGATTTCTCGAACTCGG
ASCRP3009450	0.519	0.0050649	3.82251	-1.9084	1.7062885	GGAGACAGACGGAAGTGTGGATTGTGAGCTATTTCAGAAGTGTCTCAGGACTCATT
ASCRP3005460	0.715	0.0432452	2.398671	-3.5756	1.695885	CCTGCTTAAAAAGCCAAGGTGCTTTTTCAGTGGGAAGAATTGGAAGAAGATATCAGGAAG
ASCRP3002176	0.519	0.0045459	3.898821	-1.8282	1.6941942	AGCTTGAACAGACTCACGGCCAGCGAAGTGTGCGTCTGTCACTCCACTCCCATGTC
ASCRP3001182	0.519	0.0039796	3.993568	-1.73	1.670152	ACATCAAGACAGGGGAAGAGTTTATGGAACACAGAAAGTACTGAGACCGAAGATGAT
ASCRP3003062	0.606	0.0197106	2.90547	-2.953	1.6687446	ATGGACAATATTCTGCTGATTTTTCAGGGTCAACTTTGTAGTGTGCCAACTCTTGCCTT
ASCRP3006961	0.524	0.0058508	3.72157	-2.0163	1.6495081	CTTCAGGGAATTTTTTGGTGAAGGGACCCATTTTCATTGACTCTTTGCCACCACCAG
ASCRP3013073	0.55	0.008732	3.446363	-2.32	1.6108931	TTCTACCCCGGAAACATTTCTTTGATTGTCTTTGGCATCCTGAAATCTCTGGCCAATA

Table S1 (continued)

Table S1 (continued)

ID	adj.P.Val	P.Value	t	B	logFC	SEQUENCE
ASCRP3009804	0.519	0.0050278	3.82768	-1.903	1.5988908	GGTGAAGGGACCCATTTTCATTTGACTTCTTTGCTAAGAAACGGGACATCTATGACAAA
ASCRP3000221	0.473	0.0013938	4.776714	-0.9857	1.5966101	AAAGCTAGTAGTTTGGGAAGCTGCTCAGAATGGTGCAGATGAGGGAAGTGGATTGGACG
ASCRP3007103	0.544	0.0068786	3.609491	-2.1384	1.5800247	CTTGGAACAGACTCACGGCCAGCGAAGTGAGTTCAATGGCTGAGGTGAGTTCCCAGAGAA
ASCRP3010480	0.473	0.0018875	4.54333	-1.1951	1.5774205	GTTTGAGGAAGAAAAGGTGAAACGGCAGAATGAAATCGCCAAGAAGCGGAAAAATCCAAG
ASCRP3001842	0.817	0.0721613	2.070384	-3.9814	1.5607868	AGAGAAAAACAAAAGGCTTGTGGATCAGAATCTGAACAAAATTGGGAAAGATGAAATGCT
ASCRP3006434	0.603	0.0190569	2.927481	-2.9265	1.5583473	CTGAAAGAGCCAAATCGGATGAGTCCATCAAGGAAGAAGACAAAGACCAGCTGAACCTTC
ASCRP3000384	0.544	0.0074324	3.556278	-2.1971	1.5577644	AACAGACTCACGGCCAGCGAAGTGAGTTCAATGGCTGAGGTGAGGTGAGTTCCCAGAGAA
ASCRP3005749	0.715	0.0425227	2.409465	-3.5622	1.5525202	CGTGCTGTCGTGCAGGAGAAGGAAAGGAGGCTGAAGGGTACATCCGGGAAGGCTTCCTGG
ASCRP3000038	0.788	0.0618827	2.169087	-3.86	1.550489	AAAACAAAAGGGAGGCTTGTGGATCAGAATCTGAACAAAATTGGGAAAGATGAAATGCTT
ASCRP3010923	0.786	0.0602903	2.185808	-3.8393	1.5490367	TATACAATCTGTCACCTAAGTCTTATCGAACTGCCAAGTTTCACAGCCGGGTGCCTCATC
ASCRP3012178	0.606	0.0196121	2.908737	-2.9491	1.5462704	TGCTAACAAAAACAGAAGTCTTTTGTAGAAAATATGCACCAAGTGAGAATGGGCCAAATGGG
ASCRP3003066	0.561	0.0105839	3.31654	-2.4679	1.5302793	ATGGAGAAAAGGGACAGTATACGCACAAAATTTATCACCTAAAGAGCCGTGTGGTTTTGC
ASCRP3001025	0.715	0.0429672	2.402803	-3.5705	1.5253169	ACAAGTCGATGGATTCTCTCATAAATGAAAGAACAGACAAAGACAGCAGGTTCTCCCC
ASCRP3003030	0.556	0.0091532	3.414432	-2.3561	1.5248933	ATGCCTCTTTGCCGGAGCTTGAACAGACTCACGGCCAGCGAAGTGAGTTCCCAGAGAA
ASCRP3003727	0.64	0.0240664	2.775726	-3.1106	1.5134604	CAATCAAAGGGAAATCCTCATTGACGATTCAATTTGTTGAAGGCCAATTTGTGGACTCC
ASCRP3011118	0.539	0.006496	3.648983	-2.0951	1.496404	TCAACCTAGGGAAGAAAAACCTGATAGTAAGAAGGTGGAGGAAGACTTAAAGGCAGACGA
ASCRP3005233	0.517	0.0032866	4.131488	-1.5903	1.4917572	CCCTATATTTAGAGCATCTGGAGGTCACTCTGTGAGACTGCTGGGTGAGAAAAGGATA
ASCRP3009663	0.519	0.0038343	4.020238	-1.7027	1.4916239	GGGAAGATGATTGAGATGAAGACATGTCTAATTTTGTATCGTTTCTCTGAGGCAGCCTGCT
ASCRP3006932	0.615	0.0211446	2.859733	-3.0084	1.4892996	CTTCAACTTGTAGACACAGCCGGGCAAGGAAATCCTCATTGACGATTCAATTTGTTGAAG
ASCRP3010386	0.473	0.0022178	4.421622	-1.3084	1.4873594	GTTCTCTCAGAGCCTGGATTTGGACGTGGCAGAGGGAGAGGGGCAGGAAGTTCTCAAC
ASCRP3012595	0.517	0.0028889	4.225619	-1.497	1.4778131	TGTCAGGTGGGAGAAAGCATTAAACAACAGTGTCTTCAGTGTTCGCTTTTTCAGAACTACA
ASCRP3012188	0.66	0.0285281	2.665836	-3.2453	1.4579081	TGCTCAGAGAGTAATGCTCCTCAACAAGGTCTTAATGACAGATCAGCATATGCTACTTT
ASCRP3011768	0.561	0.0132653	3.165848	-2.6429	1.4546996	TGAACTAGTAGATAGAGCCAAACAATCTTTTCAAGGTCACTCTGTGAGACTGCTGGGTCA
ASCRP3008643	0.82	0.0755003	2.041265	-4.017	1.4526748	GATGATTTATTAAGAGCTCAGCAAAAACAGTCCCTCATCTACGGGATCTGGCAACACAGAG
ASCRP3012762	0.564	0.0135296	3.152769	-2.6583	1.4451515	TAAACGGCACCAGGTGCCAGATGACTATCATGAGCCAAGCTTGTGCAGAAAGGTGTAA
ASCRP3005983	0.519	0.0050481	3.824839	-1.906	1.4441595	CTATAGGAGACATTAACAAACGGGAGCACCACAGTATGGTGCTAATCCTCCATCTGGAATTG
ASCRP3000693	0.561	0.0114768	3.262288	-2.5305	1.4355288	AAGGGACCCATTTTCATTTGACTTCTTTGGACCCATTCCAACAATCTCGTAAAACATGGT
ASCRP3000292	0.567	0.0139276	3.133566	-2.6809	1.4185635	AAATCAGCAGAGGATGCAGGCAACAGAACATTGAGGAAAACATGACAATAGCTATGGAAG
ASCRP3010200	0.949	0.375175	0.939037	-5.1959	1.4153788	GTGCTTTGTGGTGTACTGAAATCATGTCTAAGAACAGAGAACTTAACACCACCGTGCCTG
ASCRP3003016	0.817	0.0719367	2.072388	-3.9789	1.413512	ATGCATCATTGTGCGTCCCTGTATGCATACTACCTGTACTGGTTGAAGAAATATGGAGA
ASCRP3009291	0.473	0.0008283	5.19227	-0.6382	1.4123722	GCTTGAGAAGAGATAAAGTAAAGGGTTTGAAGTATTCTTGAAGGGCTGTTTGGACCTGC
ASCRP3007442	0.804	0.0676012	2.11235	-3.9299	1.3930022	GAACAAGCAGTTCAAGTGAAGGAGGCAAAACCGGAAGACCTTATGGATTCAAACTTAG
ASCRP3003345	0.546	0.0076788	3.533947	-2.2219	1.3915329	ATTTCTGGTCTCATCTACGAGGAGACTCGCGGGATTTTTGCGGCTATTTTCGTTGGTGTG
ASCRP3002278	0.945	0.3231127	1.05293	-5.0992	1.3796339	AGGCAGAAAAATAAAGAGGGTTGATTTCTTTATTCCAGGAGTCTCTGTGGTTGGTGGGT

Table S1 (continued)

Table S1 (continued)

ID	adj.P.Val	P.Value	t	B	logFC	SEQUENCE
ASCRP3000608	0.561	0.0103904	3.328933	-2.4536	1.3738279	AAGATGAAGATGGCTGGGCTGAACGCCATCCAGACTCTCGATTCCCTTCTTGGGCTTTTC
ASCRP3008889	0.567	0.0143379	3.114361	-2.7035	1.3725745	GCACATGGCAGGATGAAGGAAAAAGAAGCAAGATCTAAATTTAGACAGTGAAGTTATTTCG
ASCRP3009264	0.473	0.0024355	4.351732	-1.3748	1.366045	GCTGTAGACTACGAGGGCTCCAGAACCCAGGAAGATTCTTCTAACAGAGAAAATGCCATT
ASCRP3012532	0.473	0.0016124	4.663808	-1.0857	1.3563413	TGGTGGATCAGCTTTTCTGCAAAAAATTTGACATGAGCTTCTGAATTCACACGTGAAGA
ASCRP3001758	0.704	0.0406382	2.438511	-3.5262	1.3560458	AGAAGTTCGTTGGAAGCAAAAAAGCCCAGTGGAGGAAAGAGCTAGGTCAATATAGTCTA
ASCRP3011363	0.609	0.0206808	2.874166	-2.9909	1.3374739	TCCATTATTGGGAAATGTCAAGCCTAGAGGCAACCAAAAACATGGTGCATCCTTTATCAT
ASCRP3004458	0.594	0.0180962	2.96129	-2.8858	1.3337678	CAGTGATATGGAGAATTGGCCAACACCAAGTGAATTAGTGAACACTGGAAATTCGGTTCC
ASCRP3000659	0.787	0.0605983	2.18254	-3.8434	1.3325454	AAGGAACGATCTCGTAAGAAGGATTCAGAACACCTTTGTCTAGAAATTTGTGGAGAGGT
ASCRP3001922	0.659	0.0279516	2.679	-3.2291	1.3320186	AGATCAGAATCTCAGTCCAACAAAAGGTTGTTCTTTTAAAGAATTATTGAAGACGAAGGT
ASCRP3010719	0.672	0.0313344	2.605413	-3.3197	1.331423	TACATGCCCAAGAGGGGACTTGATGTTAACAAATGTGAGATTGCCAGAAAAATATGCAGG
ASCRP3012242	0.561	0.0126121	3.199394	-2.6037	1.3283037	TGCTTAGAAGCACATGGAAAAAGGCTGAGAATTTTTCTCGTGGATCTTTGTTTTGCTC
ASCRP3004884	0.679	0.0330782	2.570588	-3.3627	1.3259095	CATTGTTGGGACATGTATATTGTACACTCAGAAGAAGCCTTGTCTTACTGGCAACCTGT
ASCRP3000596	0.659	0.0280194	2.677439	-3.231	1.3198202	AAGAGGCAAACTTCGGACATAGAGGCCAACCAACCTTTGGAGAGTGAAGAGAGAACCTG
ASCRP3004163	0.546	0.0079998	3.505959	-2.2531	1.3149378	CAGAGCTTGAGACAGACGATGCACACTTGACTGAAGGAGGACAGGGAATCTGAAGACTC
ASCRP3009451	0.817	0.0728506	2.064267	-3.9889	1.3144459	GGAGACAGAGAATTCTGCTTGGTCAGAATCGTGATGGCATTGTGTTCAAGACTGATGACT
ASCRP3002350	0.721	0.0450921	2.371883	-3.6088	1.3143359	AGGTGTCAGGGCAGAAACCAACAAAGAGTGATGACAGACCTAATGCTCTATTAAGTTCAC
ASCRP3009813	0.852	0.103165	1.839076	-4.2615	1.3141351	GGTGGTGATGGAGGTGGAGAGCATTAAACTGTCTGCACTGCAGCTCTCACCTGCTGATTG
ASCRP3013248	0.546	0.0084243	3.470741	-2.2926	1.3058494	TTGGGCCTTTCTTTTATCAGCCTCCAGAAGGGGATAATGCACATGTGTATATCTCATGA
ASCRP3000071	0.517	0.0033068	4.127053	-1.5947	1.3055915	AAAAGATTCAGAGTTGGATAAGCACTTGAATCACGGGTTGAAGTCGAGATAACATGAGT
ASCRP3008101	0.679	0.0334619	2.563178	-3.3718	1.3039748	GAGACAAGCAAATCTGACAGGATGGCATCTGATGACTTTGACATAGTGATTGAGGCCATG
ASCRP3002787	0.473	0.0016891	4.628102	-1.1178	1.3014059	ATCATATAACTAGTGTGAGGAGAGGTATCTTATTGACAGCCGGTGGTTCAAGCAGTGGAA
ASCRP3008256	0.62	0.0219135	2.836515	-3.0365	1.2910984	GAGCTCTGACTGCAGACCTACCAAAACAGTGAAGAAGTCAAGAACTAGTAGATTAT
ASCRP3008176	0.813	0.0696848	2.092842	-3.9538	1.2902047	GAGATACCTTAGCCTGGCCTACAACAAGAGGTTGTGTTTTCATCTTACCCTGGATTTTCA
ASCRP3007913	0.603	0.0192318	2.921515	-2.9337	1.2901266	GACCCATTTTCACTTACTTTGATATCGAAACTGGCACTGAAGTGGCATCCAGATA
ASCRP3000615	0.519	0.0042011	3.954893	-1.7699	1.2778444	AAGATTCAGAGTTGGATAAGCACTTGAATCACGGGTTGAAGGGAAGTCGAGATAACATG
ASCRP3012497	0.473	0.000404	5.80014	-0.1848	1.2766017	TGGGTGGTGATGAGGATGTAGATTACCAGAAGTAGATGGAGCAGATGATCTTAATTGGC
ASCRP3011981	0.561	0.0118955	3.238358	-2.5583	1.2763166	TGATGAGAATACTTCCATCATCTTTAGACCTAACTCAAAGAGAGACATCTCCCCATACAT
ASCRP3009699	0.831	0.0811202	1.994973	-4.0735	1.2732434	GGGATTCTGACCATCTCACATGCCACATTTCTTTCAAGATGGCTTGAAAACAGCTGATAA
ASCRP3004184	0.703	0.039459	2.457385	-3.5028	1.2729753	CAGAGTGATGAACAACCTCATCAAGAAATATCTCAGGTTCTCCCCGGGCAGAAGAAATC
ASCRP3006285	0.942	0.2586472	1.215928	-4.9474	1.2705532	CTCGCAGTGGGGGAGATGGAGGTGGAGGAGAGAGATGCTGTGTGGGGGTGCGGGTTCCTT
ASCRP3013230	0.72	0.0444242	2.381441	-3.597	1.2670731	TTGGAGTTGGAGACAGGCACCTGGATAACCTTTTGCTAACAAAAACAGGTATGTGATAGT
ASCRP3003651	0.763	0.0557217	2.236318	-3.7769	1.2643571	CAAGCCTGGTTCAAGTAAACCTACTCAAATATTGAGGCTGCCTCCATTTCGAAACATTTT
ASCRP3005568	0.544	0.0069704	3.60036	-2.1484	1.25518	CGAAGTGAGTTCAATGGCTGAGGTGAGGGGCCCGCGGATGCCTCCTTTGCCGGAGCTTG
ASCRP3008212	0.473	0.0015864	4.676326	-1.0745	1.2515241	GAGCAACTTGCTAATGGCAGGCATTTACAAGGATGGGTGCATCAGTTAAGGAAGTTGAAA

Table S1 (continued)

Table S1 (continued)

ID	adj.P.Val	P.Value	t	B	logFC	SEQUENCE
ASCRP3010151	0.674	0.0316197	2.599582	-3.3269	1.2450144	GTGAGCATTACAGATTGTGCTTCAAGAAGACCATAGGGAAGAACGCATTTTCATCTTGCT
ASCRP3009594	0.713	0.0422318	2.413863	-3.5568	1.2377446	GGCCTCTCAGGATGAAACAAGTGAAGATGCTAACTGTCTTGCTTTGAGTGGACATGATAA
ASCRP3008027	0.85	0.0972081	1.877797	-4.2152	1.2351698	GACTTATCATGACCTCAGACTATCAGCTTCAGAAGCTGCTTACCATGGACCCAATAAAGC
ASCRP3004906	0.645	0.0243345	2.768551	-3.1193	1.2295075	CATTTGGAGGAGCAACAATGTGGGACTATACGGCACCATACTGGACATACCTTTTATGTG
ASCRP3011267	0.473	0.00169	4.627693	-1.1182	1.222671	TCATATAACTAGTGTGAGGAGAGGTTGAAGGTATCTTATTGACAGCCGGTGGTTCAAGCA
ASCRP3002609	0.688	0.034307	2.547156	-3.3916	1.2151294	ATACATATCACAACACAGGGCTACAGGGGAAGAATTGAAAGTGAAGGCATACCTACCAAC
ASCRP3012185	0.647	0.0251128	2.748178	-3.1442	1.2108112	TGCTATTGAGTTAAATGCAGCCAATTATACAGTGTGGGACAGAGCAGAATGGGCTGATAT
ASCRP3004883	0.837	0.0843709	1.969595	-4.1044	1.2085869	CATTGTTGGGACATGTATATTGGCTGCTATATGGCAAGCACTAAACCCTATGCTTACCG
ASCRP3007605	0.723	0.0455707	2.365121	-3.6172	1.2078575	GAAGCCAAGATGACCAGAATGTTTTTAAATAATCCCGTGACGACAGCATGTACGATCCCT
ASCRP3011803	0.758	0.0522858	2.27709	-3.7264	1.2051551	TGAAGGAGATGAAGTAGAGGGATTTATCAAAGATGTTTCATGAAGACTCCCTTACAGTTGT
ASCRP3003414	0.844	0.0925976	1.909352	-4.1772	1.1996936	CAAAAGTAAATTTGGCAAGACATATCCTTACAGGCAGAGAGCACACGTCACATGGAGATG
ASCRP3003295	0.594	0.0180661	2.962379	-2.8845	1.1946383	ATTGGGGGATCTGGACCGAGTCAAGTCAAAGGAAGCAAAAAGACCTGATATTGAATAG
ASCRP3001122	0.914	0.1781996	1.475844	-4.678	1.1941129	ACAGCACAGTCAGCCAGCCTAATCTTAGAACCACAGTAAATGATTTAGCTTTGGAGTCA
ASCRP3011877	0.84	0.0909617	1.92091	-4.1633	1.1888035	TGACTGGTGAATTTGAGAAGAAGTATGTAGCTTGTATTGGTTGGTGATGGTGGTACTGGA
ASCRP3008387	0.721	0.044894	2.374704	-3.6053	1.1823348	GAGTAACTCTGTCTTATTATCGGACCCCGAGGATCAGGAAAACTATGGAAGCCTGGAG
ASCRP3006148	0.689	0.0362532	2.511731	-3.4355	1.1792042	CTCATCCACACCGTGTGCTGCAAAAGGACTATCAGGACATATCCAATGATGATGATGAC
ASCRP3011166	0.519	0.0039038	4.007351	-1.7159	1.1784074	TCACAGCACGGTGGAGGAAGTCAATGTCTGGTGGAGAACAGAAACCAGAGAGGTACTAT
ASCRP3004489	0.78	0.0592311	2.197172	-3.8253	1.1736561	CAGTTACGGCAGGAGGCCGAGCAACTTAAGAACCAGATTCGAACAAATTTACATGTATTG
ASCRP3013220	0.631	0.0232299	2.798652	-3.0826	1.1709952	TTGAAATGAACAGATACCAAACCTTGCCAGTAGGGAGAAGGGAAAGTTTTGCTTTAAGGC
ASCRP3010462	0.801	0.0669779	2.118301	-3.9225	1.164908	GTTTCCAAGCAACAATCAGTGCTCCACACATGAAAATGGAATCATCAAGACAGATAAAGT
ASCRP3009698	0.862	0.1116302	1.787548	-4.3226	1.161836	GGGATTCTGACCATCTCACATGCCACATACAAAATTGAGAAAGAGAAAAGAGAGCACGC
ASCRP3005075	0.875	0.1187717	1.746862	-4.3705	1.1603568	CCAGTAGCACCAGGATATGTCTTTTCCAAGATGAGATGGGATTCTCCAACATGGAAGATG
ASCRP3013124	0.852	0.1039268	1.834278	-4.2672	1.1593692	TTCTTCCAAGGAACCAGTGCGAAGCAAAGAATGGCTCAAGAAGTACTGACACATTTAAG
ASCRP3000180	0.66	0.0282743	2.671599	-3.2382	1.1545939	AAAGAAAGAGGTCTAGAAGTACCTAAACCTGGTTGGACCGACAGTTACAAGACATAGTGT
ASCRP3003327	0.679	0.032882	2.574413	-3.3579	1.15418	ATTTAGGAGGATTCGATGGCAATTTTTTGTGGAACAGAATTGGAGCAGTTTTGACGAAGT
ASCRP3013392	0.884	0.1247446	1.714556	-4.4083	1.150398	TTTCTAGAAGCTTGCAGAAAAATTGGTGTACCTCAGAGTGATGACAGACCTAATGCTCT
ASCRP3009424	0.711	0.0417031	2.421934	-3.5468	1.1499299	GGACCCCGAGGATCAGGAAAACTATGGATTTGAATTTGTTGAAATGAGCAGTCGTAAT
ASCRP3001941	0.84	0.0864207	1.954073	-4.1232	1.1419647	AGATGAATTTACATGAACCTTGAAGATGATTTACTTGGAGAAGATTTGCTATCTGGCAAAA
ASCRP3003469	0.584	0.0173514	2.988812	-2.8528	1.1408087	CAAAGTTCACCTGTTTAGCTACCCCTGCTGTGAGCCTCGAGGGACCCGGCTACCTGTAAG
ASCRP3012190	0.886	0.1282952	1.696027	-4.4298	1.1373508	TGCTCAGCAGGAGCTTCATCAACGATATATGTCAGATCTAAAGAACATTCTAGTATGCCA
ASCRP3003415	0.844	0.0936221	1.902212	-4.1858	1.1348366	CAAAAGTCCATTGAGAAAAGACAAGAGCCCTGTGAGGAGGAAAAAAGCAAGAGCAGAAG
ASCRP3012365	0.609	0.0202947	2.886437	-2.976	1.1276538	TGGAGTCAAAGGAAAAGTGGCAGACTTCTGGGCATATTTGAGGTGCTGCTGGTGGAGTAG
ASCRP3009567	0.939	0.2305787	1.297554	-4.8661	1.1252005	GGCAGCTGTGAGGGATATTCTTGAAGGAATTCAAAGCAAATAACTTCAGACAGAAAAGC
ASCRP3012771	0.544	0.0075873	3.54215	-2.2128	1.1208608	TTAACATTTGGGAGAAACACAGCCAGAAGGAAGTGGTTGGATTGTGAGCTATTTGAGAAC

Table S1 (continued)

Table S1 (continued)

ID	adj.P.Val	P.Value	t	B	logFC	SEQUENCE
ASCRP3013275	0.82	0.0741276	2.053081	-4.0026	1.1174958	TTGTCAGCTCATTGCAGCTTACATTTTTGGTTTCTCCACAAAAATGAGCCAACACAGA
ASCRP3010882	0.84	0.0883073	1.940097	-4.1401	1.1153562	TAGGTTCTCACCTGATGAAAGCGGAAGCAAATTCAGAGAGCACGTTTTCAATATCATA
ASCRP3009803	0.899	0.1481782	1.600276	-4.5396	1.1149504	GGTGGAAGATTCTTCCAAGGAACCAAGTGCGAAGTAATCTATGCCAGCAATTATGACAATG
ASCRP3005082	0.84	0.0908251	1.921885	-4.1621	1.1148125	CCAGTGAATCAAGCCAAGACATATAGAGCAGGCAAGTTAGGAAATCAACATTGAATCCCA
ASCRP3002714	0.817	0.0716553	2.07491	-3.9758	1.1147817	ATATTCTGGAATCCCAGCAGTTTCTTTCTGTTTTTGCAGGTACCAGCAACTTCAAGGTT
ASCRP3007198	0.844	0.0921818	1.912271	-4.1737	1.1143582	CTTTCTATGACCCTGACACCAGCATCATTACTTATGTGGAAGACACGATGAGGCGAGT
ASCRP3007816	0.84	0.0849277	1.965343	-4.1095	1.108846	GACACCTCAGGGAAGAGACTTCCACCTTAGGATAGTGTTCCTGAAGATTTACAACCTGAA
ASCRP3001605	0.909	0.1707762	1.50475	-4.6463	1.1045332	ACTGGTTTGAGAGTCCAGATAACAAAGCTTTATTCGTCATTTCCATGTCAGACAATGGC
ASCRP3000703	0.75	0.0500927	2.304533	-3.6924	1.1032089	AAGGTGAAGATGATACCTTCTAACAGCCCAAGACTGTGAATTGGAGAATCAAGAGGCCAC
ASCRP3007888	0.915	0.1797218	1.47005	-4.6843	1.1023078	GACCACAGGGACCACCAAGAAGGCCCGGAGGATATTATACCATTATTGATAAATACTGG
ASCRP3011766	0.875	0.1188549	1.746402	-4.3711	1.1015059	TGAACCTGAAACTTGGTGGAAATTTGATCCTGAAGAATTAGAAAAATGTCTTATGGTGAA
ASCRP3001251	0.84	0.0896985	1.929973	-4.1523	1.1009974	ACCAAGAATGGAACAGCGAAGGATACAGCCTGTGCACATCCTGACTTCTAATAATCATG
ASCRP3001001	0.902	0.1560892	1.565422	-4.5789	1.0980611	ACAACCAAAAACAGAGCAGTGTCTGTCTACTAGTGGGAATTTAAATGGATATTATACCA
ASCRP3009875	0.902	0.1558767	1.566337	-4.5779	1.0954795	GTACATCTACATGCATTTTGGGGAGGTCCTGAGTGCCAGAGGTGGTGGTGTGCTTATC
ASCRP3002480	0.672	0.0310123	2.612061	-3.3115	1.0941838	AGTGGGGAGAGGAGAAGATTTGACTTCTGAACATCCTTTGTTAGTTTATTTAGGAAAGGG
ASCRP3009724	0.84	0.0860366	1.956954	-4.1197	1.0914048	GGGGACCCCTGGCTGAAAGACAAAAATTGGAGGAATCAGACATCATTGATCTTGAGAAAC
ASCRP3001821	0.519	0.0046398	3.884343	-1.8433	1.0852521	AGACCTTTGTATGTATTTCTGGTGGTGCATTATGTCAGTTTTAGGAAGGCTTGGGA
ASCRP3003280	0.72	0.0443571	2.38241	-3.5958	1.0831269	ATTGCATTCCAACAGCTCATTTTATGTTGCTTACAGCACTTAGAAAATTGTTGATGGCCGG
ASCRP3006793	0.561	0.0106649	3.311423	-2.4738	1.0789356	CTGTCTTCTGCTGCTGGGGATATTACATTAGGAAGTTCATGGGTCAAAAATTGCATGT
ASCRP3005133	0.904	0.1591291	1.552454	-4.5934	1.0787899	CCATTGCAAACCTTATTAATCTCAGGGAAGTGGATGTCAGCAAGAATGAATGTTGGCTCA
ASCRP3008716	0.615	0.0214373	2.850792	-3.0192	1.074051	GATGTCGTTTGGGGATTAACTCTTTGTTTACTCCTCCCAAAGTGAATGCCTGACCAAG
ASCRP3001024	0.75	0.050823	2.295263	-3.7039	1.0719808	ACAAGTATTTGAAGAATATGTTTCGTACGTATCAGGGAGCTCAAAGAGGCCCATGAAGCA
ASCRP3004998	0.892	0.1392794	1.64157	-4.4926	1.065198	CCACCCACTGAGCCCTCTAGTACTACTAGAGAGCACGTTTTCAATATCATAGGAGCATT
ASCRP3002378	0.679	0.0326307	2.579344	-3.3519	1.0614764	AGTACCATAGGCATCCTTCATCAAAAAGCCATTTGACCGTGAGAAAGTAGAATCAATGGA
ASCRP3003138	0.901	0.1538644	1.575059	-4.5681	1.0566236	ATGTGGAAAATTTCTAGAAAGCTTGCAGAAAAATTGGTGTACCTCAGGTCATGCTTCACC
ASCRP3012455	0.55	0.0087527	3.444752	-2.3218	1.0564353	TGGGAAAGACCTTGATCCCAACAATGTTATCATTGAGTCTGGTCCATCGAACTCATATGT
ASCRP3011066	0.757	0.0517904	2.283187	-3.7188	1.0558664	TATTGGAGAGAGAAGTCCATTAGAGATGTTTATGATTACTTCCGAGCTGTCTGTCAGCGT
ASCRP3005524	0.886	0.1358766	1.658004	-4.4737	1.0558399	CCTTGCTGCAGCCTGTGCACGTGCGGGCGTAGTTCGGCTTCACATCAACAGCTGGCTGGAG
ASCRP3008217	0.679	0.0330418	2.571298	-3.3618	1.0445863	GAGCAGATTCGCAAAGAACAAGAAGAGGAACGTGAGGGAACACAACAGTAGATGAGTTAA
ASCRP3003394	0.624	0.0226058	2.816318	-3.0611	1.0405662	CAAAAACCTTTGGACAGTCCAATGTCAACATTGCCAGCAAGTGGCCGTTCTAATTGAAG
ASCRP3009475	0.834	0.0817193	1.990223	-4.0793	1.0404098	GGAGGAGGACGAAGGTTGCGAGAAGTGTCTTGGACAATTGCAAATCAAATGATGGAAAAA
ASCRP3009472	0.73	0.0466572	2.350031	-3.6359	1.039105	GGAGGAAAGAAGACAAGAGAGAACGCAAAACAGTTTGAAGCTGAGGATTTTTCGTCATTGA
ASCRP3000344	0.609	0.0204846	2.880373	-2.9834	1.0387766	AAATTGTTGACTTGCAAGATGATGAGGATTTCCAGATAGACACAGGTAATGAGAGGCCCT
ASCRP3009085	0.82	0.0761238	2.035968	-4.0235	1.0357955	GCCGAAGAGGAAAGTCTAGTACTCAATAAAGGAGATTGCTTTGCATAAATCCACCCCTGT

Table S1 (continued)

Table S1 (continued)

ID	adj.P.Val	P.Value	t	B	logFC	SEQUENCE
ASCRP3009119	0.82	0.0762097	2.035241	-4.0244	1.0354813	GCCTTACAGTTAGAGAATCTTTGGATTTGTTAATATGCGGCCACATAGGATGTGGACGG
ASCRP3013116	0.561	0.0100858	3.348942	-2.4307	1.0346293	TTCTTATCGTGGAAGGCAACAGGTGTCACAGCACGGGGATTCCCATCGAAACGTCATCAT
ASCRP3002057	0.899	0.1480724	1.600753	-4.5391	1.0244404	AGCATTTCATGTTCCCTCACCAGCTGTAAGTGATGACAGACCTAATGCTCTATTAAGTTCA
ASCRP3003288	0.561	0.011559	3.257515	-2.536	1.0243366	ATTGGAGACATAGAATTCAGGAAATCTATCAAATGTGGAAGAAATTGGGACTTGCTCGT
ASCRP3000585	0.844	0.0945638	1.895716	-4.1936	1.0240109	AAGAGATAGGAACCTTTGGTTGGGATAAGGAAGAGACTTCCACCTTAGGATAGTGTGGCC
ASCRP3001979	0.567	0.0146935	3.098175	-2.7226	1.0231285	AGATTTGTTCCATAAATTTAAGGTATTAAATGGCATTCTTGCTGATGAAATGGGCCTTGGT
ASCRP3004131	0.791	0.0635069	2.152465	-3.8805	1.0201035	CAGACTCCAGATCTCACATTCTGAAGGTGGCATTGAAGAGCACTAAGATCGGAAGATGA
ASCRP3010660	0.877	0.1202316	1.738828	-4.3799	1.0180942	TAATTGGAGCCTTGCTGGGTGAACAGCAGAGAATTTCAAAGGACCTTGCTAATATCTGTA
ASCRP3001643	0.572	0.0161335	3.036581	-2.7958	1.0162385	ACTTCATTGGCCACCTACAGAAAACAAATGTCAACAAATTGATGGGATCTCCCAGCCATC
ASCRP3002815	0.552	0.009046	3.42241	-2.3471	1.0158813	ATCCACTGAATATTGAAGCTGCAGAACATCATTTGCGGGACAAGCCTCCCAAAGTGAAT
ASCRP3001354	0.815	0.0710038	2.080785	-3.9686	1.0135951	ACCGAAGACACTCATGAAGTAGATTCCAAAGCAGCTTTAATACCGAATAACAATACTTCT
ASCRP3007978	0.822	0.0781072	2.019391	-4.0438	1.0135023	GACTAGGGAGAATAATCATGGGCCAGACTGGGAAGAAATCTGAGAAGGGACCAGTTTGTT
ASCRP3008956	0.875	0.1184766	1.748498	-4.3686	1.0120037	GCAGTAGAAGAAGAACAAAATGGAGCTCTCTATGAAGGCAGAAGCTGAGGAAGATTGTCA
ASCRP3006278	0.84	0.0891063	1.934264	-4.1472	1.0089168	CTCGAGAGTGCGAGAAAAATAGTACATGATTACAGTCCGGGACCATGTCTGGAGAACTAC
ASCRP3003038	0.808	0.0687393	2.101623	-3.943	1.0046945	ATGCTAAGAACTGCTGGGAGGATGACATTTTCAGTTTAAATTCTCAACTGGCAATTGGCC
ASCRP3001093	0.75	0.0507711	2.295917	-3.703	1.0024137	ACAGAAGATTCATTGAATGGCACCTGCAGAAGCTTTTCATGCAACACCCCAACTTATAA
ASCRP3001496	0.84	0.0859625	1.957511	-4.119	1.001143	ACTACATATTCCAGATGGTGAAGACATTGAGTGAAGCTTGCCTGATGGTAAGGAAACCAG
ASCRP3011510	0.946	0.3270609	1.043819	-5.1073	1.0006857	TCGTCTTTCATTTACCTCGGTGATTTGGTCTTCTACGTGGTGGTGACGACAGTGAGAC
ASCRP3010264	0.958	0.4362323	0.819472	-5.2881	1.0003315	GTGGTGAAGACCTCATTAACTACTATGTGGTGGTGTGTTAGTTGGCGGATGGCATAACCAG
ASCRP3013532	0.561	0.0107699	3.304849	-2.4813	1.0002576	TTTTCACACAGGCAGCTTTGGAAGAAGTAGAAGGTGATGTGGCAGAATTGGAACATAAAC

**Table S2** The 201 DE-circRNAs screened from the GSE160717 dataset

ID	adj.P.Val	P.Value	t	B	logFC	SEQUENCE
ASCRP3010200	0.0539	0.00156037	5.171972	-0.7335	3.568485	GTGCTTTGTGGTGTACTGAAATCATGTCTAAGAACAGAGAACTTAACACCACCGTGCCTG
ASCRP3010264	0.0496	0.00104129	5.566915	-0.3181	2.93845	GTGGTGAAGACCTCATTAACTACTATGTGGTGGTGTAGTTGGCGGATGGCATACCAG
ASCRP3011155	0.1488	0.01249542	3.404048	-2.8919	2.722207	TCAATGTGTGTATCTATAAGCCACCCAATTAGCACAGTATCAAACACCATGTCTCCCA
ASCRP3008634	0.0526	0.00135574	5.307018	-0.5888	2.618589	GATGAGTATTCCGGCAGCCTGTGGTGGTCTTGGTGAAGAGTAACAACCTGACGGACCGC
ASCRP3008722	0.0743	0.0033088	4.486855	-1.5112	2.210297	GATGTGCTTCTGAGGTGGGCTGTGGAATGCCATGTGTAATTACTATTATCAGCATCTAGA
ASCRP3009800	0.0535	0.00147775	5.223964	-0.6774	2.209227	GGTGCCTCAGGTGGTGGTCTGTCACGTGGTGGGCCAGGCTATTGAGTTCTTGGTCAGCGA
ASCRP3013178	0.0356	0.00054864	6.235167	0.3332	2.179865	TTGATGACCGCAGCAGGTGGAAGATGAGCTCAGCTCCCCAGTGGTGGTGTTCAGATTTTT
ASCRP3006645	0.0344	0.00048202	6.377007	0.4636	2.1508	CTGCTGTTACTGCAGCAGTAAAGGCTGGTGTGGTGAATGCTTTATCCTGCATATTATTCA
ASCRP3004068	0.2898	0.04989734	2.39663	-4.3069	2.142004	CAGAAATCAGATGAAGGCCACCCATTGAGTTGTTGACCTCCTGACTGGAGAGACATTAA
ASCRP3011510	0.0526	0.00136323	5.301683	-0.5945	2.114352	TCGCTTTTCATTTACCTCGGTGATTTGGTGTCTTACGTGGTGGTGCAGCAGTGAGAC
ASCRP3004813	0.3424	0.07350685	2.126526	-4.6908	2.09077	CATTACAACAGTGCCACCCAATCTTCGAAAACCTGGATCCAGAACTCCATTTGTGAAATGG
ASCRP3002745	0.3875	0.09761008	1.929526	-4.9662	2.061463	ATCAAGGAATCAACATTTACCGAAAGCCACCCATCTACAAACAGCATGGCTCCACCGTTT
ASCRP3008204	0.0232	0.00020631	7.369615	1.306	2.057797	GAGATTGTGTGGATCGATGCATTTGCAGAAACAAAGATTGTGTGTGGATCGATGATGA
ASCRP3009643	0.2756	0.04401747	2.484675	-4.1812	2.045381	GGCTGGCGAGGATGGAATCCGACGTGGTAGGCCAGAGCAGATACTGTCCGCGATTTAAT
ASCRP3008289	0.0268	0.00025977	7.088818	1.0796	2.029329	GAGGAAAAGCATCGTGCTCTTTGTTCTCAGGTGTTGTGTGCAGATATGATACATGCTTC
ASCRP3000697	0.05	0.00113646	5.479838	-0.4077	1.98056	AAGGGGGCTTCACATGGTTTTAAATGTGCTGCTGTGGTTTGACCTAGAGTACAAAATAG
ASCRP3000513	0.0208	0.00010212	8.28337	1.9845	1.97414	AACTTGACTGGAGATGTGTGTGCTGTGATGAGGAAGATGAAGATCCTGCCAAAGGTGATC
ASCRP3007654	0.0391	0.00066521	6.028453	0.1384	1.973591	GAAGTGACCGATTTCTAGTGTGTGTTGGTGTGGGGCCGAGCTGGTTTACCGGGGATTG
ASCRP3005368	0.0783	0.00368315	4.393874	-1.6225	1.950645	CCTCAGGATGGTGGTGTGGCATGAGGAAAGGAGGTATCTTCGAGGGACAATCTTCTTCT
ASCRP3012539	0.0661	0.00252616	4.725994	-1.2313	1.949464	TGGTGTGGTTTGAACATTTTATTATGCAGCCTTGAAGCTGAAACCTATCAACACT
ASCRP3010265	0.119	0.00762441	3.790044	-2.3791	1.939782	GTGGTGGTGTATTCTCATGATCACAGCCTTACATATGCAATAAGCTAGGATTGTGTC
ASCRP3009314	0.4562	0.13807729	1.687432	-5.2943	1.929025	GGAAAAGCCACCCAGAGAACCCGCAAGGCTGTCATTATTTGTATCAAAAACAAAGAATTT
ASCRP3012176	0.1379	0.01067655	3.525087	-2.7288	1.921477	TGCGTTGTTTGTAGGATGTGGAGCCACCCAAAATTTCAAGCACAAAAACATTTCCATTA
ASCRP3002732	0.0706	0.00304117	4.560806	-1.4237	1.910812	ATATTTTTGACTCTTTTGTGGTGGTGTGCGGTAGGCCTCGCAATGTATTCAAGTTACTC
ASCRP3006919	0.3749	0.09162077	1.97353	-4.9052	1.896975	CTTATGGATATGACCAGCCACCCACACAGAATATGCCTATGGGTCTGGAGGGATGAATC
ASCRP3005758	0.018	0.0000308	10.063765	3.0888	1.886162	CGTGTGTGTGGCATGCAGCCATAAGTTAGAAGAAGAATTTGAGTGGCTAAAGAAATCTGA
ASCRP3007563	0.0222	0.00017641	7.565448	1.4587	1.883575	GAAGAGCTTAGGTGGTGTGGGAAGATCTGTCTGAGAAGAAACAAGAAAGCAAACAGGTAA
ASCRP3003019	0.0413	0.00071551	5.95157	0.0644	1.879577	ATGCATTAGCAGATTGATGAACATAGGATATGTGTGTGTGTAAGAAAACGACCACTCAAT
ASCRP3006692	0.0551	0.00163183	5.129434	-0.7796	1.823261	CTGGATGAACGAAATCTCCTGTGGTGGCAGTTGAGAAATGCTATGGTGAATCGAAAGAC
ASCRP3009152	0.3355	0.06998078	2.160691	-4.6426	1.810901	GCGGCTGGCGTCAAAAAGGCCAAGAAGGCTGCAGGGGCGAAAAAGGCAGTGAAGAAGACT
ASCRP3009642	0.3576	0.08090321	2.05993	-4.7845	1.804669	GGCTGGCAGGCAACACCTTAGGGTTACGAGAAGTTTCTGAGAAGCTGAACAAATATAATT
ASCRP3000492	0.1926	0.02116716	3.009729	-3.436	1.797755	AACTCCCGTGGCAGGTTGCATCTGCACTGGAGAAATGGAAGACAGCAATCCGGGAAGCTC
ASCRP3005316	0.0845	0.00413829	4.294036	-1.7436	1.797068	CCGTAGTGGATTGGTGGTGGTGCAGTGGAGATGCCATTTCCAGTGTGAACGATATGAT
ASCRP3010909	0.1998	0.02272988	2.957626	-3.5091	1.773051	TATAACCAGTTGGCTTTGCTGGCAGTGTATACGGTAAAATATGCCTTGATCAGTGCCAG
ASCRP3013614	0.0179	0.00001707	11.059355	3.6037	1.759295	TTTTTTCATGATGTGTGTGGCAGAGAGAACATATAACAGGAGGCTTTTAGCGTTTGGG

Table S2 (continued)

Table S2 (continued)

ID	adj.P.Val	P.Value	t	B	logFC	SEQUENCE
ASCRP3006838	0.018	0.00004741	9.388032	2.6999	1.758564	CTGTGTGGTGCGAGTAACTGTACAGTGTGATCACTTACTCCAGTCGTCATGTCTACAATA
ASCRP3009307	0.1206	0.00781549	3.770276	-2.4048	1.757309	GCTTTGGTGGCAGCCGTGGTGGTGGTTTCGGTGGGAATGACAACCTCGGTCGTGGAGGAA
ASCRP3011563	0.3196	0.06295095	2.234346	-4.5382	1.745266	TCTCAAATCCATTCCCTTTAAAAAATAAATCTGATGCAGATGTGTAGGCGGGAGCAGGGC
ASCRP3008380	0.0552	0.00168586	5.098631	-0.8132	1.738928	GAGGTGTGCTTTGTGTGAAAGGTGAGCAATAAAGTATCTGTTAAGTTCGTGTTGATGGGC
ASCRP3011719	0.0208	0.00009866	8.330483	2.0173	1.738267	TCTTTCTTATTAGGTGTGTGTAAGTGGTGTGTGCACCGTTTCGACCATCACTGTGTTTG
ASCRP3010469	0.0661	0.00246982	4.746316	-1.2079	1.734672	GTTTCTGGTGTGTGTTCTAGTGCAGTGGCTTCAAAGACTCCAGTTGGATTCACTGGACTG
ASCRP3007143	0.0535	0.00145668	5.237739	-0.6627	1.718509	CTTGTGCCTTGGTGTGTGTTATCGGAGGTTTCATTCTGGAAAATCCAGTGTCTATGAAA
ASCRP3008446	0.0279	0.00034843	6.743406	0.7884	1.708975	GAGTTGATCAGTGTGGTGTGGAGCCAGTGCACAAGTGCAGGGACTTGAGATGGGAGTAC
ASCRP3008559	0.0542	0.00157852	5.16096	-0.7454	1.685167	GATCGGTGTGGACTTTTCCGGGGTGGTGTGGTGGTTCGTTAGGAAGAAATTTGGAGTGTGCGT
ASCRP3002172	0.0208	0.00015213	7.7546	1.6024	1.682398	AGCTTGAGTGGGAGTGTGTGAGCGTGAGCGAGCGGGTGTGTATGTACGAGTGTGCACGTG
ASCRP3003070	0.3355	0.07014861	2.159026	-4.6449	1.682132	ATGGAGGGCCAGTTATAACAGTGCAGAATGCCACCCAGAGGATGTTTGAAATTGACTATA
ASCRP3000125	0.0277	0.00031557	6.858393	0.8869	1.675352	AAACAGTGTGGTGGTATCCTTACAATCATCCTGCTTCTTGTACATCACTGACGTCTGCTC
ASCRP3013256	0.3826	0.09513604	1.94737	-4.9415	1.655404	TTGGTTGGCTTGTGAGATGAACTGGCTAAACTGGATGCATTTGTAGAAGGAATCTCTCTT
ASCRP3007899	0.0581	0.00186406	5.004382	-0.9169	1.625438	GACCATCAGTCATGCTCTGTGGGTGAGAGAGCCAGCCAGAAAGGACTGTGCGGAGATTG
ASCRP3013138	0.1673	0.01532347	3.249468	-3.103	1.62009	TTGAAAAAAGATACTGTGTTTTTCACTTGCCACCCAGAAATGGAAATGGAGCCACAGT
ASCRP3010410	0.0673	0.00267625	4.674232	-1.2911	1.610373	GTTGCATCAGTGTGTTGTGGTTAGGAGGGGGGCATTCCAAAGGCAGGTGAATAAATGG
ASCRP3010304	0.0223	0.00018421	7.510944	1.4166	1.610102	GTGTGTGGCCAGTCATTTACCACCAATGGGAACATGCACAGATACTTTGAGTCCTTCTC
ASCRP3006170	0.051	0.00122396	5.406726	-0.4838	1.599071	CTCATTGATGTGTGGTGTGCGGATGGAGAGGGTTTTCTGAGTATCTGGCAAGTTAACCA
ASCRP3009014	0.0195	0.00005633	9.129542	2.5419	1.586236	GCCAATTTTACATTTAAGGTGAGTGTCTGGGTGGTGTCTTATACTGGAAGGAACTTGCTG
ASCRP3008436	0.3118	0.05880218	2.281857	-4.4706	1.575916	GAGTTATTACAGTTTCAGGATTGGCGGGCTTGGTTTCAGCGAGAAAAGATGGGAAAAGT
ASCRP3011392	0.1072	0.0063432	3.938477	-2.1878	1.566593	TCCCTGTGGTGGAGTTTTTGACACTTTTGTCAAGTACACATTTATCAGGTGACTTACT
ASCRP3000424	0.3099	0.05794148	2.292142	-4.456	1.561817	AACCACTCTGGAATACTTGCTGGCTGGGGCAGATATCATTGAAACAATACTTTTAGCAG
ASCRP3005757	0.0758	0.00346044	4.447849	-1.5578	1.556615	CGTGTGTGGGGTCGAGCTTCTGATAACGAGGCTGTGGAGCAGCACAGCCTCCTCTATTG
ASCRP3010723	0.0955	0.00503038	4.129548	-1.9466	1.547208	TACCACAGCTGCCTTTGTGTGTTGTGTCAATAAAAAGCCAAACCCTGGGCTCGCCCGGC
ASCRP3007287	0.3663	0.08544204	2.022024	-4.8376	1.546151	GAAAAATATAGAGCTGGCTGGGAAAATGAAAGGATGGCCTGGTGGGAATCCAACAATTA
ASCRP3010298	0.0628	0.00217796	4.860596	-1.0777	1.543463	GTGTGGACATGTGGGCTGTTGGCTGTATATTAGCAGAGTTACTTCTAAGGGTTATAATAA
ASCRP3013460	0.3716	0.08939674	1.9906	-4.8814	1.541288	TTTGCTGGCTGGGCTTTTCCAGTGTGAGAAAGGATGAGAGTGGAAACCCCCAGCTATTAG
ASCRP3008107	0.3372	0.07083976	2.15221	-4.6546	1.538981	GAGACACATCCAGGCCAGCCTTTATTATTGCCATATAAGCCTTCTGGTAGTACCAAGATG
ASCRP3005597	0.3208	0.06334755	2.229973	-4.5444	1.527185	CGAGATGGGGCCTGGCGGGCTTTGGGCTTTACTATATATGGATGGATCCATAACACATG
ASCRP3002496	0.0657	0.002416	4.766216	-1.1851	1.525055	AGTTAGGGCCAAGCTTCATGAGTTCAGAGGTCTTTGAATAGTGTGTGTTTTGTTTTGGT
ASCRP3009639	0.4327	0.12197664	1.774271	-5.1783	1.520785	GGCTGCTGGCTTCTTTGTATAGCATCCATGAGTATGTTTTCTGATTCCTGCAGTCTTTT
ASCRP3012667	0.4148	0.11250833	1.830661	-5.1018	1.519275	TGTGGCTTATGGCTGGATTATACTAAAACATAACAACCTTGGAACTGCAGTTGGCTTTTTGC
ASCRP3004615	0.3355	0.06994973	2.161	-4.6421	1.502339	CATCCAAAGGGCTGTGGAGAGGACTCAAAGCCACCCGTCATCTCGTTACAAAAGCTCATC
ASCRP3011094	0.3316	0.06730062	2.187847	-4.6041	1.489746	TCAAATCCATTCCCTTTAAAAAATAAATCTGATGCAGATGTGTAGGGAGAGCCTGGGGCC

Table S2 (continued)



Table S2 (continued)

ID	adj.P.Val	P.Value	t	B	logFC	SEQUENCE
ASCRP3003420	0.0208	0.000132	7.939592	1.7392	1.481835	CAAAATTCTGCTGGTGAGAGTGTGTGAAGGTTTGTGTTTCTGCCCTAGACAGTCATTCAAA
ASCRP3005985	0.4205	0.1151874	1.814252	-5.1242	1.478179	CTATATCCCTTTCCAGAAGATGATTCCAACGCCACCAATTCCAACCTGGTCCAACTAT
ASCRP3011351	0.018	0.00004283	9.543626	2.7925	1.467179	TCCAGGGGATAGTGGTGTGGATCAGTTGGTAGAAATAATCAAGTTGTATATGTATCAGCT
ASCRP3001452	0.5227	0.19019845	1.460359	-5.5862	1.465313	ACGCCAAGCCAAGCAAATTGTTTCATCAGCAAAGGAACATAGATTAGCTTATTGTGAC
ASCRP3009533	0.0591	0.00197386	4.951196	-0.976	1.464261	GGATTACAATTCTTCTAATGCCTTGTAGCTGCTGCTGGTGGTGACAATGTCAAATAACGG
ASCRP3009348	0.3856	0.09669718	1.936058	-4.9571	1.45978	GGAACCTTTCAGCCAAGCCATATCTAACAGAACTATCTTCAACTTTTCAGGCTGCAATAA
ASCRP3008429	0.3778	0.09292664	1.963698	-4.9188	1.455657	GAGTGGCCTTGGCTGGGGAGTATGGAGCAGTCACTTACAGGCAATTTTACCCAGAAAAG
ASCRP3010242	0.3133	0.05962647	2.27215	-4.4844	1.454795	GTGGCTGAAGAAGTGCTGGCCGGGATGAATGTCTACTCCTCTGAATTTGAAAACATCAAG
ASCRP3008718	0.3957	0.10149183	1.902409	-5.0036	1.448042	GATGTCTGGAATGGCTGGTCTTTTTAGCATCTCTGGCAAGATATGGTTACGCCCATGGT
ASCRP3011137	0.0208	0.00015125	7.762101	1.608	1.446225	TCAAGATAGATATTATAGCAGGTTGTGTGTTGGATTGACATAGATGAAGACGCATTGGA
ASCRP3010724	0.1259	0.00848486	3.704988	-2.4902	1.438587	TACCACAGCTGCCTTTGTGTGTTGTGTCAATAAAAAGCCAAACCCTGGTCTGGTGTGTC
ASCRP3000445	0.2656	0.03935417	2.563681	-4.0683	1.426812	AACCTGAGGAGAGAATGGCATGCCAGATGATCTCAATGCCACCCACCAACTGTGTTTT
ASCRP3007667	0.1862	0.01904351	3.087549	-3.3272	1.423974	GAAGTGTGGTGAGATTGAGGAGTGCAGGCTGCTGACAAGAAATAGGAGGACTCACCCC
ASCRP3008203	0.0352	0.00052885	6.275189	0.3703	1.417457	GAGATTGAATGTGCCACTTGCATTACAAGAGATGGGCTCTGTGGTCTGTGGAATGAAAT
ASCRP3004481	0.1206	0.00797514	3.754162	-2.4258	1.415975	CAGTGTGTCTGGTCTTATGAGAACATGGTCCAAGACAATTCCTGGGAAAGTTCAGTTCTT
ASCRP3008112	0.0226	0.00019047	7.469053	1.3841	1.412543	GAGACATAAGTCCCATGAGGATCCCAGAGTTGTGGCGGCTGGTGTGTTTCATCTTTTGCTA
ASCRP3012915	0.0484	0.00093142	5.679333	-0.2041	1.412305	TTCAACTTCACCACTCAAGATGTATGGTCTGCTGGCTGTGTGTTGGCTGAGCTGTTACTA
ASCRP3003196	0.3355	0.06984069	2.162084	-4.6406	1.402895	ATTAGTTGGGAAGAAGGAATGAAGGCTTGGGTGGCAAATTTGAAAGACCTCGAATGAAT
ASCRP3009275	0.5067	0.17508738	1.519544	-5.5119	1.400806	GCTGTGCCAAGCCACCAGGGAAGCTTCTGCATGCTGTGTGTCATGCAGAACCACATTGTC
ASCRP3012226	0.4618	0.14126982	1.671371	-5.3155	1.395519	TGCTGGCTGGTGAATGCTTGCCTTGGGACTAATGACATGCTTGTGAGGAGTCGGGGCTG
ASCRP3007454	0.052	0.00127539	5.366441	-0.526	1.388058	GAACAGCAAGCCTGTGCAGGAGACATGGCGGACGCAGCATCTCCGTGCTCTGTGGTAAAC
ASCRP3010438	0.0674	0.00278829	4.637659	-1.3336	1.380768	GTTGTGCCTGTTTGTGAGTTTGGTAAAAGTAGTGGCATTCTGTTATTGGACAGCTGTCAT
ASCRP3007536	0.0657	0.00240994	4.768488	-1.1825	1.379516	GAAGAATCTCATCTTGTATAAAGACAGACCAAGGGGTGCTGAGTGTGTGTTGCTGTTTCAT
ASCRP3013581	0.3375	0.07108032	2.149854	-4.6579	1.373231	TTTTGTTGCTGGTGAGGCTGGTTGACCATCGAGTGAACCTTCGACCACTTCCAGATCCTTC
ASCRP3008965	0.3271	0.06556508	2.206023	-4.5784	1.360992	GCAGTGGAGAAAGCCATCAAGAAATTTGGAGGAGGCTGGCAGGATGTACAGTTTTTATCA
ASCRP3010303	0.0277	0.00031675	6.854046	0.8832	1.357718	GTGTGTGAAAGGACCCACTCTTCTGTTTGTAAAGGTGACCCAAGGAAAGAAGAACTC
ASCRP3009875	0.1374	0.01039801	3.545593	-2.7014	1.349636	GTACATCTACATGCATTTTGGGGAGGTCCTGTGAGTGCCAGAGGTGGTGGTGTGCTTATC
ASCRP3011773	0.0279	0.00035062	6.736195	0.7822	1.346934	TGAAGAAAGAGTTTTATGTGCCAAGTGGGAAGAGATCAGTGGTGTGGATGAACATTACA
ASCRP3008066	0.0347	0.00049075	6.357212	0.4455	1.341796	GAGAACAAGAATAAAACAATAACTGTGTGTGTTCTGGCTGAGATCCGAAAAGCCCCCAATG
ASCRP3001315	0.2251	0.02828172	2.799288	-3.7327	1.340719	ACCATTCCCCTTCTTTGGGGTGACTTTCAAGATGGACTTACTCTAACAGCAAGTGAAT
ASCRP3002566	0.018	0.00004456	9.482894	2.7566	1.338792	ATAACATTAAGAGTATTGCTTTGTAGTGTGTGTATCTGCACACCTGGCGCCTAAGTGTGG
ASCRP3013228	0.0279	0.00034678	6.748867	0.7931	1.33393	TTGGAGTACCGTTCGGGTACTTCTTATTAACAGACATTGTGTGGTGGGCTGGCACAATC
ASCRP3010241	0.3343	0.06868898	2.173646	-4.6242	1.333183	GTGGCTGAAACAAAGTGGTCCAGCAACACTCGCCTGCAGCAAGCCACCCAGACTTCACG
ASCRP3002476	0.2284	0.02966892	2.764878	-3.7816	1.323873	AGTGGGAGATTTGGAACAGCTTTGAGAAGAGCAAGGTGGTGGTATTTAATGGGTATTTG

Table S2 (continued)

Table S2 (continued)

ID	adj.P.Val	P.Value	t	B	logFC	SEQUENCE
ASCRP3007900	0.0674	0.00278355	4.639173	-1.3319	1.321098	GACCATCAGTGAAGAAGAAGGTAACGGCGACTGTGACTGTGGTGAATGTGTGTGCAGGAG
ASCRP3003648	0.5169	0.18425998	1.483085	-5.5578	1.31624	CAAGCCACAAGAGACGTCATAATCAAGGAAACACACCCTGAAAACCAAACCTTGAGAAAG
ASCRP3001629	0.0179	0.00000988	12.060455	4.0608	1.315285	ACTTATGTGAACCTGAGCAGTTTGTGGTTGTGTTTAAAAAGAGTTTACCACCACCAAG
ASCRP3003254	0.0635	0.00223291	4.837818	-1.1035	1.315255	ATTCTGTGGTGGATCCAGTGGAAAAGAAAATGGAACCTTTGTTCTACCAATCCACCCGTGG
ASCRP3012742	0.05	0.00110248	5.509951	-0.3766	1.314531	TGTTTGGTGCAGAAGTTGCAGTGAGAGCAGATGCTGGCAAGAAGCACTTACCAGACAAG
ASCRP3002608	0.3492	0.07674424	2.096584	-4.733	1.310987	ATACAGTCTAAATTGCAGGAGGCAGAAAAGGCTGGCATGGTTCATTTGTTGGATTTCCTA
ASCRP3009369	0.0344	0.00045409	6.443234	0.5236	1.310955	GGAAGGTCAGGCCTGCATGTATCTTAGTGTGTCTGCTGGTGTGAGTGTGATTTGAAGATG
ASCRP3011873	0.0208	0.00012098	8.054956	1.8228	1.309052	TGACTATTGAAGGTGGTCGTGTGATGGTAACAGATGCTGACAGGTCAACTACTTCTCCAG
ASCRP3003771	0.0891	0.00453165	4.217098	-1.838	1.305109	CAATGTGCTCTGGGACCTGGTTGACAGGATAGGGGCACCCTCATCCAGCATCTGAAGGAG
ASCRP3011583	0.3716	0.08922055	1.99197	-4.8795	1.301369	TCTCCCGATCTGTGGCTGGCTCCTATGATAATGAAGGTACTTTAATTATCGGACTACCAG
ASCRP3000051	0.0195	0.00006941	8.824376	2.3481	1.298583	AAAACCACACCGACTTCAAGGACAAGATGAAGATGTGTGTGCTTTAAGTGCTCAGTGTG
ASCRP3011550	0.5806	0.24161809	1.286592	-5.795	1.296859	TCTAGCCAGCCAGCTGAAACGGACTCCATGATAAGCAACGATGTGCTGAGCTGAAGAAAG
ASCRP3002845	0.1206	0.00780188	3.771666	-2.403	1.289192	ATCCTTGATTTGTCATCAGAGATGCATACTGACTTGGAGTGTGTGTGGGTGACCAAATC
ASCRP3007869	0.0955	0.00507319	4.122484	-1.9554	1.285533	GACATGGTGGTGGTCGAAGTCAGCAGACACTAGACATGAGCCTTTGAATACATCTTTATC
ASCRP3010073	0.0879	0.00444635	4.233137	-1.8183	1.281852	GTCTCATAAGCTTGCATTACAAAGAGATGGGCTCTGTGGTCTGTGGAATGAAATGGTTAA
ASCRP3012795	0.291	0.05040929	2.389479	-4.3172	1.277003	TTAATAAATTGCCTTCATGTAAACTGTTTCAAGGAAACCATCTGCCGTGTGACTGGTGGG
ASCRP3002320	0.2499	0.03556705	2.63541	-3.9659	1.270123	AGGGCTGGCCAACCTCTGCTACAGACGACTCAGAGAGATTAACAGATTCTAGAAAATGA
ASCRP3010582	0.0661	0.00250609	4.733172	-1.223	1.261236	TAACCAGAAAGAATGCAGCTGGGATTTTGCTACTTGATAATGTGTGTGGGGTCTAGAAGT
ASCRP3003314	0.3764	0.09235803	1.967962	-4.9129	1.257673	ATTTAAGATTGTGGGCTTGGCTGCTTTCCTGCCAACCAACCTCGGTGCAGGATCAGCATT
ASCRP3004233	0.0179	0.00001706	11.060188	3.6041	1.23708	CAGCAAGACTGTGTGTGGACCAGTGGCTAAAAATGCCAGGAGAATATTAACGTAAAGAC
ASCRP3007675	0.0617	0.0021187	4.885889	-1.0492	1.23707	GAAGTTGTGTGTTGTGCAGTCAGTAAAATCCTCCCACTGCCTCCGGGTCTTGCCCCAGAA
ASCRP3010290	0.1396	0.01123109	3.485944	-2.7813	1.236408	GTGTGAGCATGTATGTGTATATGTGAGCAGCTGTGCAGTATGATGTCAGTGGGTGTCAG
ASCRP3000044	0.0232	0.00020435	7.381417	1.3153	1.230818	AAAACAGTCGGTGTGTGCTGAGCAAATGGAAGAACAATATGTCTGTCAGAAAACCATGA
ASCRP3006891	0.3063	0.05674437	2.30671	-4.4352	1.230735	CTTACGAGCTGGTCCCTGGCTGATGGCAGCTTTGTGCGATGCACTCCGATTGTCCGTGTGG
ASCRP3010255	0.5165	0.18381603	1.484811	-5.5557	1.228119	GTGGGTGGCTTTGGACTGGTCTGAGGTTAAAAATGGCCATACTTTAGTAACTAATCAGC
ASCRP3010467	0.1428	0.01155111	3.464301	-2.8105	1.223524	GTTTCTCAATAAGCAAAAAGAACCATCTGCTGCAGAATCCAGGGGAAAGGCAGCATCTC
ASCRP3001970	0.018	0.00003737	9.756047	2.916	1.222876	AGATTCACATAGACAAGGGACAGCAGTGTGGACTGTTGGCTGGTAAAGTGTGTGCAATG
ASCRP3005925	0.3316	0.06753086	2.185471	-4.6075	1.221288	CTACTGTGTGCCACCCCAAGAAGGCCAGCGAGAGATGGAGCTACCGTGTCCAGGATGAAG
ASCRP3002278	0.0552	0.00168437	5.099468	-0.8123	1.216644	AGGCAGAAAAAATAAGAGGGTTGATTTCTTTATTCCAGGAGTCTCTGTGGTTGGTGGGT
ASCRP3010254	0.1206	0.00797174	3.754501	-2.4254	1.216385	GTGGGGGCGTGTGGATTAACCTTTCATTGACTTGTGTTGCGACAAGGGAATATTGACAAC
ASCRP3010305	0.0208	0.00014936	7.778396	1.6202	1.212397	GTGTGTGTGAGTGCACTTGTGTGTGGGTGACTAAGTGGATGCATGTGTGCCCTGCACTC
ASCRP3006072	0.0179	0.00001243	11.630658	3.8714	1.205621	CTCACACATCAATGCTTATGCCTGTCTGGTGTGTGGCAAGTACTTTCAAGCAAAGAATGG
ASCRP3007880	0.1907	0.02071376	3.025619	-3.4137	1.200455	GACATTTTGGATCCAAGTTTGTACTGCAGTGGCTACAGTTGGCTGGATATTACAGAC
ASCRP3004461	0.0228	0.00019557	7.436005	1.3582	1.200382	CAGTGCATCTTCTAGCTGAAAATGTGTGTCTGACATGCAAGCTCAGTGGGGCAGAGACCC

Table S2 (continued)

Table S2 (continued)

ID	adj.P.Val	P.Value	t	B	logFC	SEQUENCE
ASCRP3002006	0.3186	0.06250849	2.239258	-4.5312	1.190954	AGCAATCAGCTGGCCTGGTTTGATACTGACCTGTAATCATCCTTTAGGGTATTTGAAGT
ASCRP3004689	0.2836	0.04653958	2.4455	-4.2371	1.189943	CATGAAAATCACAAAATTGGCACTCAGTGACCATCAGGCTGGCTGTGTGCGGCAGCTTCC
ASCRP3000710	0.0208	0.00014115	7.851798	1.6747	1.188934	AAGTACCAGCAGAAGGTGGTCGTGTGATGGTAACAGATGCTGACAGGTCAATACTATCTC
ASCRP3006376	0.0526	0.00135352	5.308608	-0.5871	1.187439	CTCTGCGTGTGCTGTGGTTTCCACTAAACACTAAAATGAGGAAAGAGGAATCAGAAATGC
ASCRP3011446	0.3704	0.08852891	1.997375	-4.872	1.187301	TCCTGGTGATATTGTAGAAATTGCTGGTTTTGGCTTGGTTTTGAAGAAGGTGAAGAAACAA
ASCRP3009488	0.112	0.00688217	3.872346	-2.2726	1.186447	GGAGTAGCTGCTGAGGTTGGTGAAACGGGAGGTAGCTGATGGTGGTGCCTGGGTACGAG
ASCRP3006644	0.1777	0.01715518	3.165009	-3.2196	1.183953	CTGCTGTGGTGGAAAGGAACACATTAATGGGATTCGGGGAAACTGCAAGGCTTATTTTCAG
ASCRP3007421	0.321	0.06349571	2.228346	-4.5467	1.179135	GAAATGCTAGGAGTTGAGCCTGGCTGGGTGGAAGGTGTGAGTTTGCCAGCATAGATCAAG
ASCRP3008637	0.2974	0.05240352	2.362321	-4.3559	1.177872	GATGATGAAGAAGACCTGCTGGATGGCTGGGAGTGTCTGCTGATCACTTGGAGTGCTGTC
ASCRP3005060	0.1767	0.01663886	3.187793	-3.188	1.169858	CCAGGATCTGGCTGGTGGAGGAAGTGAAGGAGCTGTGTGATGGCCTGGAGTTAGAAAATG
ASCRP3011358	0.2055	0.02401852	2.917461	-3.5656	1.166647	TCCATGATGAGGTGGCTGGGATCGTTGGCAGAGCGGACGTGTAGCGTGTCTGCTGTTTTC
ASCRP3011544	0.0179	0.000016	11.173151	3.6586	1.162077	TCTACTGGTCTGGGATCTTGTGTGTGATAATGCCTGGAAGGTCCATATCGCTAAGTTCTC
ASCRP3006295	0.0963	0.0052121	4.100009	-1.9835	1.161291	CTCGGATAAGTGTGTGTGGATGTATGGTCGACGCTGGCTGATTTCTGTAACATACTGA
ASCRP3006867	0.314	0.06003455	2.267395	-4.4912	1.143492	CTGTTTGGCCAGGCTGGACTGGCGACATCTAGACTAAGAGAAAGAGGCTGTGATGGTTGC
ASCRP3006528	0.4558	0.13754742	1.690132	-5.2907	1.141389	CTGAGGAAGTCTTTGAGTGGCTGGCGTGGCTCACCGATTCCACAGTACTTGCGGCAAGAA
ASCRP3002530	0.0277	0.00032001	6.84211	0.8731	1.140874	AGTTTTACCATTCTGTATGGTGTCTGTGTTTTTTGCCAGTTGTGCTCCTGGTTCACAT
ASCRP3012236	0.0875	0.0043983	4.242324	-1.807	1.13573	TGCTTAACCTAATGTAGTGAATAAAGCAGACAAAGCTTGAGTGGTGGTGCCTCCCAAAG
ASCRP3010329	0.3718	0.09013689	1.984873	-4.8894	1.134107	GTTACACAGGGTTGCGAACACACCTCGGCTTGGCTACTAATGAGGGTTACGGGTAAATTC
ASCRP3002149	0.3799	0.0938775	1.956624	-4.9287	1.132869	AGCTGAGGACCCAGATATGTATCAATGAAGTCAAGGCATCCATTCTTCAACATGCTTTA
ASCRP3009532	0.0208	0.00009619	8.365296	2.0413	1.126389	GGATGTGTGGGGAGAGTTGAATTTCAAATAAATACTCTACAATAAGTAGAGTGATGCCT
ASCRP3005645	0.2947	0.05130267	2.377178	-4.3347	1.124923	CGCAGGCTGGGCTGATAAAATTCATGGGATGACCATTCTGTAGATCTTTATAACAACG
ASCRP3007488	0.1072	0.00629443	3.944764	-2.1798	1.11761	GAACGGGGTGTAAGCATGAGGCCTGGCTGCTGCTACCATTCTTCAAGAGCACTGCTTCC
ASCRP3006812	0.0652	0.00236225	4.786592	-1.1618	1.115039	CTGTGCGTGTGGACTTCTACAATGCAGACGAGCTCAAGATGGAAGCCCGTGTCTCTGTC
ASCRP3006132	0.0674	0.00270385	4.665067	-1.3017	1.109887	CTCAGTGCCAGAGAACCAGCATCCAGTCATCTCTATAAAGTGTGGTGTGTGAGACTT
ASCRP3008448	0.0367	0.00058325	6.168983	0.2714	1.108216	GAGTTTCTCTTGAGGGCAATAAAAGTTGTCATGGTGTGTACGTGGGGAGCTGCTGTTGAC
ASCRP3008773	0.2955	0.05180503	2.370358	-4.3444	1.107415	GATTGATTCTGTGTGTGCCTCTGACAGCCCTGATAGGCAGTAGACAGCAGGGACTCCCTG
ASCRP3006332	0.1428	0.01155579	3.463988	-2.8109	1.102709	CTCTCAGTGGGGCATCAACCATTCCACCGAGATACTTTCCACTTTCTAAGGGAGGAAAAG
ASCRP3007295	0.2346	0.03106992	2.731811	-3.8286	1.093922	GAAAACCTCAAGTACTGAGTCATGCAGGGCCTGGTCTGCTTGAATCCTGTGTGTGTGCCG
ASCRP3011929	0.245	0.03353141	2.677356	-3.9061	1.089448	TGAGTCACCAGTTAACTATGGTAGCCCACCCAGCATTGGTGAAGTATTACAGACACTTAG
ASCRP3005771	0.4211	0.11586085	1.810185	-5.1297	1.087184	CGTTTCAAAGCCAAGCCAGTTAACCGCAGACATTAGGATACACAGATGGAGTTTTAA
ASCRP3000719	0.2274	0.02926658	2.77468	-3.7677	1.086147	AAGTCAGAGAGGTACTTCGTAAGTTCGAGGCTGGCATCCTGCAGTATTTTGTGAAT
ASCRP3010613	0.0539	0.00155982	5.172306	-0.7331	1.08437	TAAGTGAGAAGGGTGTGGTGCAATTATTTAATGCTGTTTCCAGAAACATCAAAGAATGTTG
ASCRP3006087	0.0391	0.00066383	6.030655	0.1405	1.080441	CTCACTGAAACAGCAAAACAGACATTGCTACAAGTGGTTGGTGTGGTCTCTGTGGCTGTG
ASCRP3011687	0.2484	0.03507149	2.645385	-3.9517	1.078937	TCTTCCAATGAGCCATTCCAGATGATGGGATTTATTGGCAGGCCAACCTTGACAGATTC

Table S2 (continued)

Table S2 (continued)

ID	adj.P.Val	P.Value	t	B	logFC	SEQUENCE
ASCRP3002315	0.0277	0.00032733	6.815741	0.8506	1.074089	AGGGATGGTACAACAGATGCAGTCTGTGTGCTCTGATTGTAATGGAGAAGAGTATCTTTA
ASCRP3002862	0.0674	0.00281834	4.628131	-1.3447	1.07221	ATCGGTGGTGTGAAAACATTGGAAGAGCCCATAGAGTAATAATATAATGACGTTTCATGT
ASCRP3009332	0.2948	0.05144643	2.375219	-4.3375	1.070656	GGAAAGTGGCTGGATTGGACAAGCAGGCAAAGCTGAGGGATATGTGGTGCCTGTCATAAG
ASCRP3000341	0.3075	0.05709645	2.302393	-4.4414	1.069023	AAATTGCAGTCAATGCATTATGGCCTAAAACAGGAGGCTGGCAGGATGTACAGTTTTTAT
ASCRP3009644	0.1072	0.00634276	3.938535	-2.1877	1.062291	GGCTGGGCAGGGTTTTGTCCACCTTGTGTCTGTAGCATCTAGGATGGTGTGTGTGTGTGT
ASCRP3005738	0.1862	0.01905274	3.087191	-3.3277	1.060478	CGTCTGTGTGAGCGGTTTAAATGAAAGAAATCCACCTGAACCTATAGGAAGATTCTTACCT
ASCRP3009641	0.373	0.09093382	1.978758	-4.8979	1.056464	GGCTGGAGTGGTTCCTTAAATGTGGAAGAAGGAAGAAGAAGGAAATACTTGCAAAACAC
ASCRP3013141	0.2368	0.03165228	2.718527	-3.8475	1.051723	TTGAAAAATCACATGAAGGAAGGAAAACAGAAATAACTTGCTGGCTTGTCTGGAGTCACA
ASCRP3001509	0.0509	0.00118908	5.43514	-0.4541	1.049465	ACTCACCTGCTAATGTTGATGCTGCGTGAAGGTGGTGTTTTTAAGGCTCATCTTACTTTC
ASCRP3002996	0.1442	0.0118574	3.444188	-2.8376	1.044092	ATGATGCCAATGGTGTATGTGGATGTGGAAGAAAGTGTGAGAGTTTTGCCGAATTGACAA
ASCRP3005164	0.3622	0.08331899	2.039497	-4.8132	1.043204	CCCAGCCATCAGTTATTCAGTCTCCACAAGTCCAACAGTTCAGGTAACATAATGACCAT
ASCRP3009345	0.5073	0.17576181	1.516804	-5.5154	1.043025	GGAACAAACAGATCTTAAATTACAGTTGAAAAGGCCACCCAGCCCTGTAAGACCAGTAA
ASCRP3005130	0.4108	0.1100522	1.846043	-5.0809	1.040085	CCATTCCAGGACTTGTGGACAGTACCTGCAGTACGTGGATCATTTCATGTGAATGGCTTTC
ASCRP3007802	0.3572	0.08056538	2.062836	-4.7804	1.03952	GACAAGTTCATTCCATTATTAGACGTTCCCTGCCAGCAACACTACCACAGCTTATGCAAG
ASCRP3006814	0.1385	0.01085543	3.512223	-2.746	1.036614	CTGTGCTTGGGTGTGCAAAGGTAAGCGAATAAAGGAACTGGCTCAGCCTGTAGTGTTTAC
ASCRP3000870	0.5012	0.16990794	1.540917	-5.4848	1.033698	AATGAGCTTGCATTCCAGCCTCCCATTTCCAATCATCCTGGTCAGCCTGCCAGTACTG
ASCRP3012682	0.2261	0.02872566	2.788085	-3.7486	1.029728	TGTGTGGCTCTGTATGACTGTTGCTGAAATATAAAGCCCTGCAACCTGGCAGCCGCCCTC
ASCRP3009190	0.0484	0.0009222	5.689436	-0.194	1.028342	GCTATTGTCATTAAGAAACCAAAGGTGTCTGCAGTGTGTGTGATGATGACATCATGCT
ASCRP3000759	0.1327	0.00966035	3.602931	-2.625	1.026102	AATAAAAATTTATGGTCCAAGGGAGTGGTGGTGACCAAGGCGGCCATGATTGTGAACCAG
ASCRP3013498	0.4902	0.16134952	1.577596	-5.4378	1.024736	TTTGTTACCTCCGAGCCACCCGAAAACCTCTAGTACAGACAACCCCAAGGGTCGAGCAC
ASCRP3005749	0.0344	0.00047605	6.390789	0.4761	1.02301	CGTGCTGTCGTGCAGGAGAAGGAAAGGAGGCTGAAGGGTACATCCGGGAAGGCTTCCTGG
ASCRP3007053	0.2228	0.02759749	2.816925	-3.7077	1.022729	CTTCTGTGCTTGGCTCAGGAAAAGCTGGAACGGGTGATCCTAGGGAGTGAGGCTGCTCAG
ASCRP3008589	0.0208	0.00008764	8.494247	2.1294	1.015729	GATCTTCCAGAGAAAGGACCAGGGAGTGTGAGGAAGAGGCTGTCTGTGTCATTATGTGTG
ASCRP3006589	0.3049	0.05638671	2.311124	-4.4289	1.015579	CTGCATGCTCTTGGCTGGAAGGTTGCACTCCAGGACTTGCAGACGAACTCCAAGATTGGG
ASCRP3000112	0.0268	0.00026433	7.067978	1.0624	1.01071	AAACAAATTGGCAGTATAAATTTAATGTGTTGTTTTCAAGTGTGTCATGTGTCCAGATGC
ASCRP3005927	0.05	0.00113729	5.479115	-0.4084	1.010658	CTACTTATCAGGTGCTGTGCTGGTGATATGGGGTAAAAGTCCCATGAAGACACATATATG
ASCRP3011357	0.1111	0.00673174	3.890214	-2.2496	1.006711	TCCATCTGCTGCAAGGAAGTTTGTAGATGAAGGAATTAACACTAGAAGAAAAGCAGCA
ASCRP3013015	0.05	0.00110937	5.503767	-0.383	1.006197	TTCCGGTGAAATAAATGGTTTTTCAACTTAGGGTAGTGGGATGTGTGTGGGCTGAAATTC
ASCRP3002158	0.4702	0.1469808	1.643482	-5.3522	1.005072	AGCTGGCTTGGCTGTTCCCTGGATGGGCAATAAAGAAAAGTGTGTCATCCCCGCGGCAGC
ASCRP3001872	0.4476	0.13218908	1.718006	-5.2537	1.003735	AGAGCCATTCTTTTGAACAATGATGATGTGATGCCAGCCACTTACTGTGAAATTGATT