

Table SI. Data on dysregulated DEmiRNAs expression identified in low-grade SCG.

Patient ID	miRNA	Fold change	P-value
		Low grade SCG vs. normal	Low grade SCG vs. normal
46633	hsa-miR-1267	2.778844	0.44801
5250	hsa-miR-105-5p	4.215003	0.138181
147611	hsa-miR-4305	2.409344	0.286787
148599	hsa-miR-3680-5p	3.001223	0.436768
148363	hsa-miR-3652	2.026326	0.124134
168910	hsa-miR-4735-5p	2.191187	0.396681
168669	hsa-miR-5693	7.428484	0.130446
169335	hsa-miR-4699-5p	2.611289	0.332242
169136	hsa-miR-5006-3p	2.031228	0.315068
42959	hsa-miR-514a-3p	3.020553	0.40836
17289	hsa-miR-616-5p	3.864202	0.222092
147837	hsa-miR-3119	2.158628	0.389625
168619	hsa-miR-1260b	2.224564	0.141335
168568	hsa-miR-1290	2.175651	0.007799 ^b
168811	hsa-miR-1255b-2-3p	2.764684	0.376399
168801	hsa-miR-4477b	8.578137	0.137824
169412	hsa-miR-1260a	2.079982	0.176897
30787	hsa-miR-125b-5p	2.646161	0.123917
42683	hsa-miR-922	3.952015	0.32282
46381	hsa-miR-1298-5p	2.276145	0.190867
145990	ebv-miR-BART21-3p	2.836055	0.397879
145717	hsa-miR-516a-3p/ hsa-miR-516b-3p	3.143787	0.371435
148264	hsa-miR-3665	2.097248	0.193588
145759	hsa-miR-181c-3p	7.640944	0.183047
168558	hsa-miR-5585-3p	2.581913	0.007175 ^b
168621	hsa-miR-4796-5p	2.097985	0.288505
168670	hsa-miR-4694-5p	4.903716	0.229931
168767	hsa-miR-4681	2.223152	0.288536
169071	hsa-miR-4639-5p	3.152945	0.143173
42496	hsa-miR-181c-5p	2.85619	0.425812
42530	hsa-let-7a-2-3p	3.250967	0.445501
10990	hsa-miR-196a-5p	2.051004	0.270695
146090	hsv1-miR-H7-3p	2.433696	0.105383
148386	hsa-miR-219b-5p	3.909252	0.220499
168676	hsa-miR-499b-5p	5.464807	0.168922
17571	kshv-miR-K12-11-3p	2.094831	0.331407
11058	hsa-miR-325	4.038391	0.088062
11074	hsa-miR-34c-5p	2.427256	0.385174
46789	hsa-miR-513b-5p	4.226819	0.198333
17612	hsa-miR-555	4.638947	0.13254
146005	hsa-miR-3129-5p	4.022678	0.23901
145651	hsa-miR-99a-3p	8.383706	0.44369
147831	kshv-miR-K12-1-3p	2.608526	0.356337
148434	hsa-miR-3692-3p	4.653716	0.339075
148382	hsa-miR-3609	3.926094	0.428125
148215	hsa-miR-3591-3p	5.842616	0.158419
168917	hsa-miR-4511	2.14971	0.112642
169247	hsa-miR-4477a	8.457066	0.292731
17626	hsa-miR-575	2.654789	0.302988
33902	hsa-miR-128-3p	2.006117	0.12865
11083	hsa-miR-371a-3p	2.065478	0.55099
17415	ebv-miR-BART10-3p	3.805119	0.163987
46808	hsa-miR-4485-3p	14.77512	0.001269 ^b

Table SI. Continued.

Patient ID	miRNA	Fold change	P-value
		Low grade SCG vs. normal	Low grade SCG vs. normal
168735	hsa-miR-5586-3p	2.421733	0.409946
168909	hsa-miR-3152-5p	2.002821	0.424531
169019	hsa-miR-4524a-5p	4.842361	0.123141
169109	hsa-miR-5003-5p	4.237448	0.467745
169154	hsa-miR-4803	2.315542	0.289198
146165	hsa-miR-1973	2.203796	0.153338
148227	hsa-miR-1251-3p	4.890659	0.345304
169141	hsa-miR-4423-3p	4.562241	0.371536
169048	hsa-miR-4736	2.331175	0.223221
46404	hsa-miR-1244	3.682718	0.146806
42572	hsa-miR-154-3p	3.941245	0.332262
46640	hsa-miR-1257	2.072198	0.384064
168849	hsa-miR-4635	2.919409	0.211196
168614	hsa-miR-5197-5p	3.138025	0.298757
169080	hsa-miR-4684-5p	3.118994	0.356423
169262	hsa-miR-5009-5p	3.723072	0.161915
17439	hcmv-miR-UL36-5p	3.363741	0.371962
42551	hsa-miR-122-3p	5.070068	0.293253
42885	hsa-miR-376a-5p	2.39044	0.37553
146142	hsa-miR-1972	2.989159	0.330074
145972	hsa-miR-141-5p	3.691347	0.363477
147915	hsa-miR-3174	2.366904	0.348113
148228	hsa-miR-3656	2.047183	0.128302
148353	hsa-miR-3681-5p	2.73243	0.207499
168768	hsa-miR-4423-5p	2.2859	0.267207
169010	hsa-miR-2681-3p	2.412277	0.324493
42483	hsa-miR-522-3p	10.40596	0.292331
11102	hsa-miR-410-3p	5.499107	0.332139
11005	hsa-miR-204-5p	3.789954	0.22281
147997	hsa-miR-3934-5p	4.141216	0.437632
168921	hsa-miR-4718	2.090635	0.35353
169011	hsa-miR-4801	4.337436	0.096446
169379	hsa-miR-4694-3p	2.10866	0.458561
169038	hsa-miR-488-3p	19.50103	0.124513
169240	hsa-miR-3944-5p	3.166674	0.366974
169115	hsa-miR-450a-2-3p	2.169609	0.378019
11093	hsa-miR-379-5p	3.625612	0.320446
42480	hsa-miR-485-5p	3.906519	0.139559
148499	hsa-miR-3910	6.423522	0.320328
168583	hsa-miR-539-3p	2.694926	0.471445
169288	hsa-miR-4730	2.620219	0.15696
169235	hsa-miR-4420	4.190583	0.205917
19595	hsa-miR-30a-3p	2.20394	0.310856
28950	hsa-miR-455-3p	11.67154	0.367303
42556	hsa-miR-889-3p	4.505776	0.36598
14328	hsa-miR-124-3p	4.682231	0.406032
46880	hsa-miR-1183	2.231988	0.111993
147651	hsa-miR-3123	4.102231	0.274741
168896	hsa-miR-548ao-3p	2.169132	0.333348
168926	hsa-miR-4776-5p	2.053238	0.501359
17347	hsa-miR-708-3p	2.419665	0.280732
46368	hsa-miR-1282	2.848472	0.387157
42476	hsa-miR-374b-3p	2.494458	0.426877
46221	hsa-miR-519d-3p	2.124104	0.030425 ^a

Table SI. Continued.

Patient ID	miRNA	Fold change	P-value
		Low grade SCG vs. normal	Low grade SCG vs. normal
148118	hsa-miR-676-5p	2.145535	0.44672
168914	hsa-miR-5689	3.355659	0.324438
168818	hsa-miR-4774-5p	6.426369	0.347071
169214	hsa-miR-4638-5p	2.898527	0.343338
169116	hsa-miR-4788	2.846811	0.280473
169369	hsa-miR-4490	5.428902	0.122826
11148	hsa-miR-515-3p	5.705135	0.101553
29379	hsa-miR-452-5p	2.131956	0.254902
148338	hsa-miR-3064-3p	3.556303	0.14807
146014	bkv-miR-B1-3p/jcv-miR-J1-3p	2.740215	0.448533
168948	hsa-miR-4514	2.111083	0.355341
169259	hsa-miR-4773	4.037373	0.281926
168980	hsa-miR-4324	2.316431	0.145885
13183	hsa-miR-487a-3p	2.193335	0.22304
46829	hsa-miR-664a-5p	2.275521	0.298793
30209	hsa-miR-651-3p	3.29927	0.343382
148678	hsa-miR-301a-5p	2.233206	0.373172
148657	hsa-miR-381-5p	2.424522	0.33895
28534	hsa-miRPlus-D1058	4.878035	0.280509
168860	hsa-miR-4766-5p	4.579327	0.225107
168586	hsa-miR-34a-5p	2.346694	0.280868
169383	hsa-miR-548ah-5p	3.389437	0.398437
13179	hsa-miR-455-5p	2.64662	0.332342
46419	hsa-miR-1185-5p	7.7787	0.320217
46363	hsa-miR-1272	2.277376	0.412142
147701	hsa-miR-491-3p	3.175403	0.01112 ^a
168749	hsa-miR-138-1-3p	4.250954	0.255687
169293	hsa-miR-4661-3p	2.453673	0.388207
169029	hsa-miR-4471	11.65354	0.129061
17641	hsa-miR-573	3.462488	0.140958
17482	hsa-miR-411-5p	8.485861	0.308703
42957	hsa-miR-323a-3p	2.16754	0.259329
33407	hsa-miR-626	3.676464	0.161996
11111	hsa-miR-432-5p	4.128282	0.248046
148377	hsa-miR-3653-3p	2.273531	0.044598 ^a
148536	hsa-miR-1-5p	2.235554	0.244833
42453	hsa-miR-376b-5p/hsa-miR-376c-5p	5.401599	0.47044
168841	hsa-miR-5588-3p	2.163202	0.34824
168866	hsa-miR-4771	3.381683	0.301615
169223	hsa-miR-4680-3p	5.799037	0.081943
169388	hsa-miR-663a	2.248276	0.09514
42668	hsa-let-7c-3p	2.096106	0.184921
42925	hsa-miR-409-5p	9.013519	0.297951
46606	hsa-miR-1288-3p	3.995916	0.305604
29852	hsa-miR-9-3p	109.9022	0.222872
148644	hsa-miR-551b-3p	7.934445	0.318846
168870	hsa-miR-1246	2.129627	0.000165 ^c
168650	hsa-miR-3121-5p	2.355487	0.381632
169072	hsa-miR-3925-3p	4.361353	0.383841
42818	hsa-miR-597-5p	0.332257	0.027361 ^a
147627	hsa-miR-4294	0.27405	0.01993a
148635	hsa-miR-933	0.455852	0.045267 ^a
169076	hsa-miR-345-3p	0.348876	0.005034 ^b
148040	hsa-miR-1247-3p	0.166916	0.09691

Table SI. Continued.

Patient ID	miRNA	Fold change	P-value
		Low grade SCG vs. normal	Low grade SCG vs. normal
168744	hsa-miR-4746-5p	0.41311	0.016046 ^a
147796	hsa-miR-4327	0.164299	0.037505 ^b
147821	hsa-miR-3169	0.098904	0.059943
147654	hsa-miR-3138	0.492039	0.064149
147986	hsa-miRPlus-K1303*	0.395339	0.038021 ^a
17835	hsa-miR-450a-5p	0.431628	0.055974
168602	hsa-miR-4666a-3p	0.370654	0.094736
168570	hsa-miR-2682-3p	0.45231	0.12492
169132	hsa-miR-382-3p	0.428531	0.109168
46565	hsa-miR-1207-5p	0.435053	0.120442
14285	hsa-miR-487b-3p	0.46368	0.033907 ^a
145705	hsa-miR-431-5p	0.470647	0.35913
148654	hsa-miR-184	0.36064	0.324597
11164	hsa-miR-519e-3p	0.256786	0.131196
168684	hsa-miR-5010-5p	0.298515	0.024839 ^a
168679	hsa-miR-4763-3p	0.410447	0.065905
169118	hsa-miR-5009-3p	0.378663	0.048926 ^a
32731	hsa-miR-190b	0.477042	0.038174 ^a
168576	hsa-miR-4693-3p	0.312502	0.211171
42746	hsa-miR-647	0.495697	0.034319 ^a
42782	hcmv-miR-UL148D	0.495512	0.044111 ^a
46300	hiv1-miR-TAR-3p	0.15303	0.176635
27541	hcmv-miR-UL70-3p	0.437844	0.122366
168843	hsa-miR-5694	0.453529	0.003177 ^b
168872	hsa-miR-24-1-5p	0.463826	0.010762 ^a
169016	hsa-miR-4743-5p	0.122457	0.068854
31076	hsa-miR-559	0.479082	0.164535
145750	hsa-miR-614	0.142004	0.285845
147707	hsa-miR-3154	0.148477	0.013034 ^a
168875	hsa-miR-5091	0.31679	0.056735
168997	hsa-miR-5584-5p	0.484717	0.132134
169138	hsa-miR-4504	0.342858	0.117752
11004	hsa-miR-203a-3p	0.228107	0.013837 ^a
147816	hsa-miR-3162-5p	0.352215	0.059238
148628	hsa-miR-3199	0.06516	0.19
168958	hsa-miR-2681-5p	0.447216	0.260427
146163	hsa-miR-224-3p	0.245368	0.037491 ^a
148216	hsa-miR-3907	0.423333	0.066911
169162	hsa-miR-5691	0.363667	0.283929
17530	hsa-miR-641	0.453629	0.44692
148393	hsa-miR-676-3p	0.397326	0.070404
148278	hsa-miR-138-2-3p	0.235469	0.012785 ^a
168785	hsa-miR-520d-5p	0.353728	0.159223
46515	hsa-miR-1537-3p	0.487667	0.324328
46567	hsa-miR-3176	0.245644	0.024773 ^a
168823	hsa-miR-4522	0.210341	0.163539
42514	hsa-miR-937-3p	0.498356	0.04583a
168616	hsa-miR-4536-3p	0.477835	0.278968
169013	hsa-miR-5195-5p	0.284896	0.024539 ^a
46800	hsa-miR-1224-3p	0.48432	0.005663 ^b
147311	hsa-miR-3688-3p	0.309661	0.002454 ^b
148663	hsa-miR-557	0.351335	0.049467 ^a
148316	hsa-miR-134-3p	0.352798	0.013421 ^a
17578	kshv-miR-K12-5-3p	0.477073	0.008347 ^b

Table SI. Continued.

Patient ID	miRNA	Fold change	P-value
		Low grade SCG vs. normal	Low grade SCG vs. normal
42764	hsa-miR-412-3p	0.464999	0.112219
168721	hsa-miR-4701-5p	0.322788	0.054871
169404	hsa-miR-3663-5p	0.414063	0.075245
147937	hsv1-miR-H13	0.23977	0.187939
147731	hsa-miR-3189-3p	0.345883	0.005695 ^b
168603	hsa-miR-4664-5p	0.207634	0.08593
168929	hsa-miR-4648	0.409251	0.1429
42786	hsa-miR-188-3p	0.160177	0.212456
168562	hsa-miR-4738-3p	0.342906	0.009162 ^b
11063	hsa-miR-330-3p	0.491138	0.048469 ^a
27545	hsa-miR-373-5p	0.422296	0.019137 ^a
147893	hsv2-miR-H5	0.134012	0.073625
168906	hsa-miR-4703-3p	0.471758	0.301531
42475	hsa-miR-221-5p	0.456121	0.119741
146159	hsv1-miR-H4-3p	0.141502	0.023713 ^a
148059	hsa-miR-493-5p	0.303035	0.00716 ^b
168836	hsa-miR-4496	0.258316	0.07271
169378	hsa-miR-4430	0.359698	0.085899
42828	hsa-miR-769-3p	0.488455	0.266208
146148	hsa-miR-548q	0.456191	0.137387
147916	hsa-miR-3126-3p	0.449929	0.079279
147662	hsv2-miR-H6-5p	0.483325	0.022519 ^a
148509	hsa-miR-328-5p	0.491219	0.014383 ^a
168584	hsa-miR-5587-3p	0.425319	0.352968
169198	hsa-miR-3145-5p	0.351683	0.00695 ^b

^aP<0.05, ^bP<0.01, ^cP<0.001. miR, microRNA; SCG, spinal cord glioma.

Table SII. Data on dysregulated DEmiRNAs expression identified in high-grade SCG.

Patient ID	miRNA	Fold change	P-value
		High-grade SCG vs. normal	High-grade SCG vs. normal
17519	ebv-miR-BART1-3p	2.481099	0.544522
17928	hsa-miR-181a-2-3p	2.021188	0.01243 ^a
46427	hsa-miR-1248	2.563151	0.00203 ^b
17585	ebv-miR-BART20-3p	2.110315	0.209767
42485	ebv-miR-BART10-5p	3.340125	0.006069 ^b
46633	hsa-miR-1267	3.180956	0.044996 ^a
145831	hsa-miR-625-5p	3.355185	0.194526
145675	hsa-miR-501-5p	3.919017	0.180865
145690	hsa-miR-512-5p	2.225016	0.268603
148493	hsa-miR-3613-3p	2.185928	0.022481 ^a
148231	hsa-miR-3918	4.112348	0.043185 ^a
147709	hsa-miR-3185	3.173513	0.083549
168656	hsa-miR-5002-3p	2.66149	0.180023
168667	hsa-miR-4999-3p	2.355269	0.347143
168910	hsa-miR-4735-5p	2.564797	0.012752
168569	hsa-miR-5088-5p	4.779361	0.242655 ^a
168669	hsa-miR-5693	2.672774	0.093707
169368	hsa-miR-3529-3p	10.15925	0.240028
169335	hsa-miR-4699-5p	3.25914	0.027189
42964	hsa-miR-7-2-3p	2.419555	0.239431
146152	hsa-miR-3179	2.168565	0.17069
145701	hsa-miR-668-3p	2.455511	0.243762
168801	hsa-miR-4477b	3.521554	0.010546 ^a
169090	hsa-miR-5186	2.08945	0.273764
169222	hsa-miR-4760-5p	2.754031	0.457779
169353	hsa-miR-5582-3p	2.163421	0.141546
42683	hsa-miR-922	3.326545	0.012282 ^a
42667	hsa-miR-302b-5p	2.211301	0.164368
147941	hsa-miR-3160-3p	2.080067	0.31335
147706	hsa-miR-4255	3.014858	0.055161
148640	hsa-miR-34b-3p	5.426653	0.248182
42493	hsa-miR-892b	6.761359	0.344851
168605	hsa-miR-4653-3p	2.692475	0.077686
168602	hsa-miR-4666a-3p	2.189173	0.422301
168670	hsa-miR-4694-5p	2.52421	0.170755
168767	hsa-miR-4681	2.784265	0.057133
168786	hsa-miR-3618	10.34241	0.156331
169071	hsa-miR-4639-5p	3.08614	0.068484
169308	hsa-miR-4503	3.457734	0.17667
169172	hsa-miR-4445-3p	3.325765	0.279454
169005	hsa-miR-520b/hsa-miR-520c-3p	2.015171	0.253407
17593	hsa-miR-650	3.496143	0.055789
27551	hsa-miR-612	2.699221	0.16276
17490	hsa-miR-571	2.193594	0.079462
42530	hsa-let-7a-2-3p	2.010692	0.01674 ^a
145933	hsa-miR-652-5p	2.436416	0.001032 ^b
147938	hsa-miR-4287	2.036979	0.134941
148234	hsa-miR-3667-5p	2.000892	0.001454 ^b
147640	kshv-miR-K12-10a-5p	2.074066	0.404925
148181	hsa-miR-203b-5p	2.322683	0.483405
148386	hsa-miR-219b-5p	2.503302	0.103742
168812	hsa-miR-875-3p	2.705686	0.304721
169321	hsa-miR-4691-3p	4.013416	0.13561
169157	hsa-miR-4755-3p	2.261813	0.135106

Table SII. Continued.

Patient ID	miRNA	Fold change	P-value
		High-grade SCG vs. normal	High-grade SCG vs. normal
11058	hsa-miR-325	2.888924	0.044988 ^a
46789	hsa-miR-513b-5p	3.874794	0.155424
146005	hsa-miR-3129-5p	6.337535	0.08216
147743	hsa-miR-4275	3.157552	0.152802
148434	hsa-miR-3692-3p	3.59761	0.207278
147633	hsa-miR-3163	3.752091	0.047419 ^a
148480	hsa-miR-494-5p	2.086456	0.035196 ^a
148089	hsa-miR-208a-3p	3.692655	0.148091
148215	hsa-miR-3591-3p	2.392086	0.081138
46863	hsa-miR-3157-3p	2.035585	0.190605
168917	hsa-miR-4511	2.591108	0.007252 ^b
169098	hsa-miR-3691-3p	3.785545	0.003295 ^b
169107	hsa-miR-4782-5p	2.349543	0.204181
169247	hsa-miR-4477a	3.624097	0.04345 ^a
17626	hsa-miR-575	2.269628	0.007669 ^b
29529	hsa-miR-369-3p	2.128103	0.313704
11083	hsa-miR-371a-3p	3.602984	0.037558 ^a
17415	ebv-miR-BART10-3p	2.675056	0.128226
46450	hsa-miR-548o-3p	2.698205	0.053316
46695	hsa-miR-1228-3p	2.139163	0.001033 ^b
145950	hsa-miR-33b-5p	2.106721	0.303648
147537	hsa-miR-4264	2.88591	0.37098
147795	hsa-miR-3186-3p	2.415129	0.217601
147929	hsa-miR-1273c	6.779048	0.178497
148239	hsa-miR-3916	2.058246	0.113931
46808	hsa-miR-4485-3p	4.332511	0.025421 ^a
168735	hsa-miR-5586-3p	3.517676	0.057662
169019	hsa-miR-4524a-5p	4.377924	0.137067
169006	hsa-miR-4527	14.72656	0.027362 ^a
168976	hsa-miR-3135b	2.155903	0.078197
169154	hsa-miR-4803	2.705104	0.026956 ^a
169339	hsa-miR-5579-3p	5.896966	0.362455
169397	hsa-miR-3184-5p	2.168051	0.191348
17563	hsa-miR-644a	2.559401	0.117523
146165	hsa-miR-1973	2.687838	0.006985 ^b
148471	hsa-miR-152-5p	3.566181	0.018328 ^a
147638	hsv2-miR-H12	2.830623	0.53665
168736	hsa-miR-4796-3p	2.37042	0.027399
168971	hsa-miR-4449	2.447927	0.069532
169101	hsa-miR-4469	2.189541	0.039074 ^a
169255	hsa-miR-4708-5p	2.470303	0.001054 ^b
169141	hsa-miR-4423-3p	2.462082	0.229286
169048	hsa-miR-4736	2.060894	0.029361 ^a
169138	hsa-miR-4504	2.009907	0.280402
42572	hsa-miR-154-3p	6.267512	0.263426
42627	hsa-miR-212-3p	2.130454	0.075259
147386	hsa-miR-212-5p	2.727179	0.073612
148187	hsa-miR-410-5p	3.652893	0.178026
42774	kshv-miR-K12-9-5p	2.324125	0.002785 ^b
168958	hsa-miR-2681-5p	4.40271	0.109578
168796	hsa-miR-3664-3p	7.497561	0.085394
168593	hsa-miR-4726-3p	2.004785	0.218773
168632	hsa-miR-5188	2.245158	0.119026
168849	hsa-miR-4635	3.877704	0.064339

Table SII. Continued.

Patient ID	miRNA	Fold change	P-value
		High-grade SCG vs. normal	High-grade SCG vs. normal
168806	hsa-miR-4659a-3p	2.842547	0.192582
169080	hsa-miR-4684-5p	3.125167	0.301419
169262	hsa-miR-5009-5p	2.073809	0.063597
169355	hsa-miR-2355-5p	2.667164	0.030141 ^a
17418	kshv-miR-K12-4-3p	2.696691	0.089643
17646	ebv-miR-BHRF1-3	3.145774	0.084964
42941	hsa-miR-218-1-3p	5.301105	0.039618 ^a
42571	hsa-miR-129-1-3p	2.041607	0.080658
17439	hcmv-miR-UL36-5p	2.302675	0.255394
42551	hsa-miR-122-3p	6.068409	0.020747 ^a
17892	hsa-miR-372-5p	2.641844	0.005347 ^b
147915	hsa-miR-3174	4.81814	0.082559
147772	hsa-miR-4303	2.071108	0.140281
148585	hsa-miR-3912-3p	3.698638	0.110588
147262	hsa-miR-548h-3p/hsa-miR-548z	2.420739	0.008195 ^b
148353	hsa-miR-3681-5p	3.206284	0.073469
168739	hsa-miR-1269b	2.256964	0.233119
168768	hsa-miR-4423-5p	2.520848	0.018727 ^a
168627	hsa-miR-4678	2.68324	0.38056
169179	hsa-miR-4650-5p	2.829737	0.168099
169010	hsa-miR-2681-3p	2.949241	0.352161
17818	hsa-miR-27a-5p	2.042832	0.004654 ^b
42483	hsa-miR-522-3p	7.142503	0.116189
42451	hsa-miR-139-3p	2.510884	0.023579 ^a
147997	hsa-miR-3934-5p	5.518226	0.083377
147415	hsa-miR-495-5p	2.59799	0.100532
148032	hsa-miR-3685	2.272157	0.01602 ^a
168728	hsa-miR-4641	7.281093	0.050811
169249	hsa-miR-4482-5p	5.497715	0.041277 ^a
169379	hsa-miR-4694-3p	4.225584	0.054165
17631	hcmv-miR-UL22A-5p	2.586428	0.055135
42672	hsa-miR-323b-5p	2.73539	0.218394
145692	hsa-miR-499a-3p	2.745678	0.095107
148499	hsa-miR-3910	3.116603	0.189457
168783	hsa-miR-4770	6.480646	0.239398
168747	hsa-miR-4520-2-3p	7.071394	0.320829
168942	hsa-miR-4636	3.250801	0.006004 ^b
168847	hsa-miR-4740-3p	2.486703	0.01562 ^a
169288	hsa-miR-4730	2.097828	0.115931
169235	hsa-miR-4420	2.114432	0.076265
169131	hsa-miR-4724-3p	11.99934	0.306904
46402	hsa-miR-1255b-5p	2.416936	0.027568 ^a
42525	hsa-miR-671-3p	2.09384	0.051106
42823	hsa-miR-27b-5p	3.434596	0.001791 ^b
42617	hsa-miR-541-5p	2.013081	0.1968
147651	hsa-miR-3123	3.878089	0.044331 ^a
148106	hsa-miR-3678-3p	7.396796	0.190801
147670	hsa-miR-3177-3p	2.025328	0.161888
148554	hsa-miR-3917	2.232333	0.083862
148684	hsa-miR-628-3p	2.459024	0.00576 ^b
148349	hsa-miR-3938	2.809528	0.249201
148052	hsa-miR-374c-3p	2.692257	0.018719 ^a
168896	hsa-miR-548ao-3p	2.038673	0.011995 ^a
168587	hsa-miR-4461	31.40837	0.185288

Table SII. Continued.

Patient ID	miRNA	Fold change	P-value
		High-grade SCG vs. normal	High-grade SCG vs. normal
30493	hsa-miR-548a-5p	2.520653	0.198699
46368	hsa-miR-1282	6.225745	0.050272
11007	hsa-miR-206	2.704557	0.158597
42476	hsa-miR-374b-3p	3.210076	0.091053
17592	hsa-miR-604	2.736641	0.159483
147978	hsa-miR-3140-3p	4.210382	0.145602
148140	hsa-miR-181d-3p	3.390779	0.212153
148221	hsa-miR-3650	3.14301	0.244375
148413	hsa-miR-3614-3p	3.260733	0.048488 ^a
168818	hsa-miR-4774-5p	4.153065	0.223233
169310	hsa-miR-3913-3p	4.20498	0.106692
169149	hsa-miR-4659b-5p	6.013763	0.412705
169214	hsa-miR-4638-5p	4.047053	0.323151
169116	hsa-miR-4788	3.332757	0.128632
169369	hsa-miR-4490	4.18754	0.005776 ^b
11148	hsa-miR-515-3p	5.567792	0.084951
27229	hsa-miR-511-5p	3.205043	0.110284
29379	hsa-miR-452-5p	3.120335	0.018817 ^a
46440	hsa-miR-1287-5p	2.252996	0.184262
146044	hsa-miR-2115-5p	2.045334	0.015326 ^a
148033	hsa-miR-3065-5p	2.041836	0.318448
148338	hsa-miR-3064-3p	3.537826	0.015243 ^a
146157	hsv1-miR-H4-5p	4.592455	0.027365 ^a
146123	hsv1-miR-H2-3p	2.795096	0.312763
146014	bkv-miR-B1-3p/jcv-miR-J1-3p	4.76501	0.24717
168557	hsa-miR-4777-5p	2.121829	0.025234 ^a
169206	hsa-miR-4645-3p	2.568011	0.058281
169026	hsa-miR-4679	2.119305	0.225738
169259	hsa-miR-4773	4.217082	0.07131
46940	hsa-miR-548g-3p	2.039399	0.039406 ^a
42674	hsa-miR-431-3p	3.626716	0.340073
42845	hsa-miR-125b-2-3p	2.933817	0.021997 ^a
146127	hsa-miR-449b-3p	3.075152	0.214632
30209	hsa-miR-651-3p	3.745864	0.09397
147843	hsa-miR-3144-5p	6.92765	0.108257
148674	hsa-miR-4321	6.630952	0.410595
148657	hsa-miR-381-5p	2.791879	0.128705
148300	hsa-miR-370-5p	6.050845	0.437631
168860	hsa-miR-4766-5p	5.104469	0.03812 ^a
169383	hsa-miR-548ah-5p	2.610621	0.275466
169089	hsa-miR-4470	4.521753	0.072342
17336	hsa-miR-618	4.057648	0.149723
46272	hsa-miR-1200	3.106126	0.172978
46363	hsa-miR-1272	2.086202	0.048257 ^a
30592	hsa-miR-599	3.380942	0.458053
147842	hsv2-miR-H11-5p	12.89209	0.179686
147596	hsa-miR-3168	2.116353	0.25963
148452	hsa-miR-3678-5p	2.240066	0.174316
168749	hsa-miR-138-1-3p	3.095092	0.229291
168853	hsa-miR-4671-5p	3.230361	0.008805 ^b
169014	hsa-miR-4714-3p	2.513087	0.227101
169293	hsa-miR-4661-3p	3.967513	0.095857
169128	hsa-miR-4510	3.658314	0.211821
169091	hsa-miR-5006-5p	2.423938	0.098815

Table SII. Continued.

Patient ID	miRNA	Fold change	P-value
		High-grade SCG vs. normal	High-grade SCG vs. normal
169029	hsa-miR-4471	6.816256	0.010684 ^a
17641	hsa-miR-573	2.570524	0.109213
17482	hsa-miR-411-5p	3.179222	0.15738
42957	hsa-miR-323a-3p	2.91591	0.144792
33407	hsa-miR-626	3.089695	0.04935 ^a
46717	hsa-miR-1256	12.28068	0.445334
17870	hsa-miR-628-5p	2.335689	0.500637
145995	hsa-miR-196b-3p	2.688619	0.328982
145756	hsa-miR-488-5p	2.347847	0.643493
148536	hsa-miR-1-5p	3.068592	0.032147 ^a
168922	hsa-miR-5584-3p	2.232916	0.24974
168841	hsa-miR-5588-3p	7.340563	0.114638
168866	hsa-miR-4771	2.259516	0.416063
168968	hsa-miR-147b	2.803641	0.095986
168960	hsa-miR-4436a	2.437746	0.090388
169296	hsa-miR-5004-5p	3.805546	0.044307 ^a
169223	hsa-miR-4680-3p	4.43464	0.025588 ^a
169069	hsa-miR-3977	2.078098	0.031216 ^a
169338	hsa-miR-4727-5p	3.984697	0.368363
169017	hsa-miR-197-5p	2.436144	0.245773
29736	hsa-miR-656-3p	2.082101	0.170917
17822	hsa-miR-490-5p	2.260078	0.01157 ^a
29460	hsa-miR-553	2.932846	0.035784 ^a
17655	ebv-miR-BART14-5p	2.050895	0.148445
46705	hsa-miR-548k	2.790916	0.077353
29852	hsa-miR-9-3p	3.072237	0.127309
147591	hsa-miR-4283	4.935594	0.324547
148077	hsa-miR-3690	2.30392	0.139039
148648	hsa-miR-1261	2.59803	0.174076
168895	hsa-miR-548ag	3.389133	0.187097
168685	hsa-miR-4432	2.267123	0.368279
168660	hsa-miR-5000-5p	4.358593	0.120626
168650	hsa-miR-3121-5p	3.291714	0.058517
168584	hsa-miR-5587-3p	2.014588	0.139739
169263	hsa-miR-4634	2.040666	0.119999
42932	hsa-miR-920	0.394705	4.37E-05 ^c
147845	hsa-miR-3173-3p	0.355038	0.001513 ^b
147195	hsa-miR-18a-5p	0.272239	0.024866 ^a
147334	hsa-miR-3613-5p	0.287739	0.015247 ^a
168814	hsa-miR-4463	0.470698	0.040001 ^a
147796	hsa-miR-4327	0.39708	0.102791
147821	hsa-miR-3169	0.412367	0.125719
11164	hsa-miR-519e-3p	0.432689	0.143744
46944	hsa-miR-1297	0.463999	0.01484 ^a
147817	hsa-miR-3196	0.375537	0.045011 ^a
169016	hsa-miR-4743-5p	0.173206	0.09002
145750	hsa-miR-614	0.252719	0.128247
145634	hsa-miR-132-5p	0.454755	0.043994 ^a
11004	hsa-miR-203a-3p	0.461629	0.117267
29577	hsa-miR-374a-3p	0.472857	0.058782
27536	hsa-miR-190a-5p	0.479081	0.046201 ^a
10936	hsa-miR-130b-3p	0.497703	0.013768
17503	hsa-miR-590-5p	0.477755	0.069115
42956	hsa-miR-545-5p	0.276457	0.012333 ^a

Table SII. Continued.

Patient ID	miRNA	Fold change	P-value
		High-grade SCG vs. normal	High-grade SCG vs. normal
42929	hsa-miR-25-5p	0.463479	0.003861 ^b
17530	hsa-miR-641	0.475045	0.313925
145968	hsa-let-7d-5p	0.372289	0.001407 ^b
168962	hsa-miR-548ab	0.461113	0.031089 ^a
11053	hsa-miR-32-5p	0.35434	0.047197 ^a
10916	hsa-miR-1-3p	0.43135	0.148608
168823	hsa-miR-4522	0.456684	0.202061
46517	hsa-miR-1266-5p	0.256824	0.121709
9938	hsa-let-7i-5p	0.478806	0.009756 ^b
17752	hsa-let-7f-5p	0.408248	0.041498 ^a
168802	hsa-miR-4516	0.482292	0.074378
148620	hsa-miR-454-3p	0.382502	0.010782 ^a
46467	hsa-miR-143-5p	0.489845	0.039468 ^a
146159	hsv1-miR-H4-3p	0.436004	0.123861
46731	hsa-miR-4657	0.419562	0.08998
169260	hsa-miR-4436b-3p	0.496675	0.007819 ^b

^aP<0.05, ^bP<0.01, ^cP<0.001. miR, microRNA; SCG, spinal cord glioma.

Table SIII. Patients with low-grade spinal cord gliomas.

miRNA	Targets	TargetScan	mirDB	NumSum
hsa-miR-3154	PPP1R11	1	1	2
hsa-miR-557	DMRT2	1	1	2
hsa-miR-4327	CCNY	1	1	2
hsa-miR-3189-3p	CTDSP2	1	1	2
hsa-miR-3189-3p	SRGAP2	1	1	2
hsa-miR-493-5p	LRP12	1	1	2
hsa-miR-5010-5p	NAPG	1	1	2
hsa-miR-3189-3p	ST6GAL1	1	1	2
hsa-miR-3189-3p	MICU3	1	1	2
hsa-miR-345-3p	SUN1	1	1	2
hsa-miR-4327	YBX1	1	1	2
hsa-miR-3145-5p	C6orf62	1	1	2
hsa-miR-3189-3p	FRAT2	1	1	2
hsa-miR-134-3p	CD93	1	1	2
hsa-miR-3154	C20orf96	1	1	2
hsa-miR-5009-3p	ZFAND3	1	1	2
hsa-miR-493-5p	INSM2	1	1	2
hsa-miR-345-3p	PRKCI	1	1	2
hsa-miR-3688-3p	AK3	1	1	2
hsa-miR-224-3p	FAM46D	1	1	2
hsa-miR-493-5p	AP3S1	1	1	2
hsa-miR-557	LEF1	1	1	2
hsa-miR-3189-3p	IKZF4	1	1	2
hsa-miR-3154	CECR6	1	1	2
hsa-miR-3154	SLC35B4	1	1	2
hsa-miR-345-3p	TMEM135	1	1	2
hsa-miR-4294	ORC3	1	1	2
hsa-miR-5010-5p	STIM2	1	1	2
hsa-miR-3189-3p	ELMSAN1	1	1	2
hsa-miR-3154	IRF2BP1	1	1	2
hsa-miR-493-5p	ZIC2	1	1	2
hsa-miR-224-3p	FOXP1	1	1	2
hsa-miR-134-3p	FOXP3	1	1	2
hsa-miR-134-3p	HLA-E	1	1	2
hsa-miR-134-3p	SYNDIG1L	1	1	2
hsa-miR-557	MRPS33	1	1	2
hsa-miR-557	CDKN1C	1	1	2
hsa-miR-5010-5p	SHISA7	1	1	2
hsa-miR-493-5p	GOLM1	1	1	2
hsa-miR-4294	GPR156	1	1	2
hsa-miR-493-5p	RASL11B	1	1	2
hsa-miR-3688-3p	APOBEC3H	1	1	2
hsa-miR-557	VOPPI	1	1	2
hsa-miR-224-3p	XRCC6BP1	1	1	2
hsa-miR-3145-5p	OXGR1	1	1	2
hsa-miR-3145-5p	LBR	1	1	2
hsa-miR-138-2-3p	ANKRD12	1	1	2
hsa-miR-597-5p	MOAP1	1	1	2
hsa-miR-3189-3p	PRPH2	1	1	2
hsa-miR-3145-5p	ZSCAN30	1	1	2
hsa-miR-4294	RTFDC1	1	1	2
hsa-miR-3154	FEZ2	1	1	2
hsa-miR-3154	ADD2	1	1	2
hsa-miR-597-5p	SRSF3	1	1	2
hsa-miR-3145-5p	SEC11A	1	1	2
hsa-miR-4327	UBXN4	1	1	2

Table SIII. Continued.

miRNA	Targets	TargetScan	mirDB	NumSum
hsa-miR-557	KLHL34	1	1	2
hsa-miR-3154	UNC119B	1	1	2
hsa-miR-4294	LEPREL4	1	1	2
hsa-miR-4327	KLF9	1	1	2
hsa-miR-3688-3p	DYNLT1	1	1	2
hsa-miR-345-3p	NCK2	1	1	2
hsa-miR-345-3p	STX6	1	1	2
hsa-miR-3154	HLA-DOB	1	1	2
hsa-miR-3189-3p	ALKBH1	1	1	2
hsa-miR-3688-3p	SLC38A2	1	1	2
hsa-miR-134-3p	RGS6	1	1	2
hsa-miR-3145-5p	TERF2	1	1	2
hsa-miR-3145-5p	USP1	1	1	2
hsa-miR-4294	SLC37A4	1	1	2
hsa-miR-557	USP47	1	1	2
hsa-miR-493-5p	ZFAND5	1	1	2
hsa-miR-493-5p	UBE2G1	1	1	2
hsa-miR-3189-3p	RASSF3	1	1	2
hsa-miR-3154	LURAP1L	1	1	2
hsa-miR-493-5p	CWC25	1	1	2
hsa-miR-4327	CETN2	1	1	2
hsa-miR-4294	PMP22	1	1	2
hsa-miR-3145-5p	COPS2	1	1	2
hsa-miR-4294	PKIA	1	1	2
hsa-miR-493-5p	CDH11	1	1	2
hsa-miR-224-3p	OGN	1	1	2
hsa-miR-597-5p	GPD2	1	1	2
hsa-miR-4294	NCKAP5	1	1	2
hsa-miR-5009-3p	BOLL	1	1	2
hsa-miR-4294	MSX2	1	1	2
hsa-miR-3688-3p	CAMK1	1	1	2
hsa-miR-4294	RNASEK	1	1	2
hsa-miR-3176	BCL2L2	1	1	2
hsa-miR-3688-3p	RAC1	1	1	2
hsa-miR-3189-3p	EFNA4	1	1	2
hsa-miR-3189-3p	TAF4B	1	1	2
hsa-miR-597-5p	ZNF25	1	1	2
hsa-miR-4327	SLC20A1	1	1	2
hsa-miR-345-3p	CBFB	1	1	2
hsa-miR-4294	EBF1	1	1	2
hsa-miR-3189-3p	S1PR3	1	1	2
hsa-miR-134-3p	DNAJB12	1	1	2
hsa-miR-345-3p	ZNF396	1	1	2
hsa-miR-4294	LCLAT1	1	1	2
hsa-miR-557	FGFBP2	1	1	2
hsa-miR-134-3p	GPR137	1	1	2
hsa-miR-3145-5p	INO80	1	1	2
hsa-miR-3176	RASD2	1	1	2
hsa-miR-557	GRP	1	1	2
hsa-miR-4294	GMIP	1	1	2
hsa-miR-557	NUP43	1	1	2
hsa-miR-3176	SPECC1L	1	1	2
hsa-miR-3688-3p	MT1A	1	1	2
hsa-miR-3176	CNOT6	1	1	2
hsa-miR-4738-3p	GPR88	1	1	2
hsa-miR-557	PJA2	1	1	2

Table SIII. Continued.

miRNA	Targets	TargetScan	mirDB	NumSum
hsa-miR-4738-3p	CNPPD1	1	1	2
hsa-miR-557	DERL1	1	1	2
hsa-miR-345-3p	CCNC	1	1	2
hsa-miR-5009-3p	TMEM65	1	1	2
hsa-miR-4294	GAS2L2	1	1	2
hsa-miR-3688-3p	LDB2	1	1	2
hsa-miR-4294	F7	1	1	2
hsa-miR-3688-3p	POC5	1	1	2
hsa-miR-3688-3p	GNB2	1	1	2
hsa-miR-5009-3p	LYSMD3	1	1	2
hsa-miR-134-3p	UBE3D	1	1	2
hsa-miR-3154	TMEM170B	1	1	2
hsa-miR-5010-5p	HOXB3	1	1	2
hsa-miR-5009-3p	PIGA	1	1	2
hsa-miR-557	NDFIP1	1	1	2
hsa-miR-3176	RUFY2	1	1	2
hsa-miR-345-3p	CREM	1	1	2
hsa-miR-3176	PPP1R26	1	1	2
hsa-miR-5010-5p	FILIP1L	1	1	2
hsa-miR-3154	IPO13	1	1	2
hsa-miR-597-5p	CCDC178	1	1	2
hsa-miR-345-3p	TTC30B	1	1	2
hsa-miR-4738-3p	ARF6	1	1	2
hsa-miR-5009-3p	NADK2	1	1	2
hsa-miR-4327	ORAI3	1	1	2
hsa-miR-134-3p	AQPEP	1	1	2
hsa-miR-4738-3p	GNG12	1	1	2
hsa-miR-5009-3p	TPD52	1	1	2
hsa-miR-134-3p	ADCYAP1R1	1	1	2
hsa-miR-3145-5p	GPR98	1	1	2
hsa-miR-4294	BPIFB4	1	1	2
hsa-miR-3189-3p	IFFO2	1	1	2
hsa-miR-5195-5p	LONP2	1	1	2
hsa-miR-345-3p	PLAGL1	1	1	2
hsa-miR-134-3p	FAM43B	1	1	2
hsa-miR-3688-3p	NXT2	1	1	2
hsa-miR-3688-3p	RAB27B	1	1	2
hsa-miR-3688-3p	LHFPL2	1	1	2
hsa-miR-557	SREK1	1	1	2
hsa-miR-3176	PAQR7	1	1	2
hsa-miR-4294	HTR3C	1	1	2
hsa-miR-3176	TAF7L	1	1	2
hsa-miR-3176	RASL12	1	1	2
hsa-miR-134-3p	ATP6V1C1	1	1	2
hsa-miR-3189-3p	RBFOX1	1	1	2
hsa-miR-5195-5p	WNT2	1	1	2
hsa-miR-3688-3p	RAB33A	1	1	2
hsa-miR-138-2-3p	SH3BGRL	1	1	2
hsa-miR-345-3p	BEND6	1	1	2
hsa-miR-224-3p	TXNDC9	1	1	2
hsa-miR-4327	UTP6	1	1	2
hsa-miR-3189-3p	C20orf112	1	1	2
hsa-miR-3154	ACTR1A	1	1	2
hsa-miR-3154	HNF4A	1	1	2
hsa-miR-3688-3p	SEPT14	1	1	2
hsa-miR-224-3p	DLG2	1	1	2

Table SIII. Continued.

miRNA	Targets	TargetScan	mirDB	NumSum
hsa-miR-224-3p	DHFRL1	1	1	2
hsa-miR-4738-3p	LRRC7	1	1	2
hsa-miR-3154	HMG2N	1	1	2
hsa-miR-3189-3p	CD74	1	1	2
hsa-miR-3189-3p	EFTUD2	1	1	2
hsa-miR-4738-3p	DUSP16	1	1	2
hsa-miR-3189-3p	SRXN1	1	1	2
hsa-miR-3145-5p	HSPA4L	1	1	2
hsa-miR-345-3p	EFCAB14	1	1	2
hsa-miR-3176	ZBTB37	1	1	2
hsa-miR-3189-3p	ITFG3	1	1	2
hsa-miR-3189-3p	CMKLR1	1	1	2
hsa-miR-4738-3p	FKBP1A	1	1	2
hsa-miR-224-3p	HORMAD1	1	1	2
hsa-miR-4327	PCNP	1	1	2
hsa-miR-134-3p	ZNF641	1	1	2
hsa-miR-345-3p	ZNF740	1	1	2
hsa-miR-5009-3p	C7orf57	1	1	2
hsa-miR-3154	VAMP8	1	1	2
hsa-miR-134-3p	MMP8	1	1	2
hsa-miR-557	TRIM63	1	1	2
hsa-miR-557	SGMS1	1	1	2
hsa-miR-3154	SLC31A1	1	1	2
hsa-miR-3154	RSPH3	1	1	2
hsa-miR-224-3p	GEM	1	1	2
hsa-miR-597-5p	DCDC2	1	1	2
hsa-miR-3688-3p	MBL2	1	1	2
hsa-miR-4294	ABCG5	1	1	2
hsa-miR-3176	CHTF8	1	1	2
hsa-miR-3189-3p	CDC25A	1	1	2
hsa-miR-493-5p	ZNF532	1	1	2
hsa-miR-3145-5p	CCDC11	1	1	2
hsa-miR-3154	CTSK	1	1	2
hsa-miR-3154	SNX27	1	1	2
hsa-miR-557	ZER1	1	1	2
hsa-miR-5010-5p	FNDC7	1	1	2
hsa-miR-3688-3p	SPATA4	1	1	2
hsa-miR-3145-5p	GPR137C	1	1	2
hsa-miR-3688-3p	C8orf22	1	1	2
hsa-miR-134-3p	ULK3	1	1	2
hsa-miR-4294	SFRP1	1	1	2
hsa-miR-345-3p	REL	1	1	2
hsa-miR-224-3p	CD274	1	1	2
hsa-miR-597-5p	TMOD1	1	1	2
hsa-miR-557	PRKCE	1	1	2
hsa-miR-5010-5p	GUCA1B	1	1	2
hsa-miR-138-2-3p	ENSA	1	1	2
hsa-miR-4294	NXT1	1	1	2
hsa-miR-4294	LACTB	1	1	2
hsa-miR-3145-5p	LCOR	1	1	2
hsa-miR-4738-3p	ANXA2R	1	1	2
hsa-miR-5010-5p	C1orf106	1	1	2
hsa-miR-138-2-3p	ATP6V1G3	1	1	2
hsa-miR-3176	ALOX5	1	1	2
hsa-miR-5010-5p	RNF216	1	1	2
hsa-miR-493-5p	GABRA5	1	1	2

Table SIII. Continued.

miRNA	Targets	TargetScan	mirDB	NumSum
hsa-miR-493-5p	TSC22D2	1	1	2
hsa-miR-3154	LAMC1	1	1	2
hsa-miR-134-3p	ABHD12	1	1	2
hsa-miR-134-3p	CBFA2T2	1	1	2
hsa-miR-557	AKAP5	1	1	2
hsa-miR-134-3p	ROBO2	1	1	2
hsa-miR-3688-3p	KCTD18	1	1	2
hsa-miR-3189-3p	UBE3A	1	1	2
hsa-miR-134-3p	HORMAD2	1	1	2
hsa-miR-3176	AIMP2	1	1	2
hsa-miR-3176	STARD7	1	1	2
hsa-miR-3154	PCP4L1	1	1	2
hsa-miR-3145-5p	JARID2	1	1	2
hsa-miR-3189-3p	CHTF8	1	1	2
hsa-miR-3189-3p	SERPIND1	1	1	2
hsa-miR-557	FAM101A	1	1	2
hsa-miR-224-3p	UBE2Q2	1	1	2
hsa-miR-5009-3p	DMRTA2	1	1	2
hsa-miR-4294	PPM1A	1	1	2
hsa-miR-224-3p	MYEF2	1	1	2
hsa-miR-138-2-3p	VDAC2	1	1	2
hsa-miR-3154	EIF1	1	1	2
hsa-miR-557	POLR1D	1	1	2
hsa-miR-4294	OXLD1	1	1	2
hsa-miR-4294	C6orf201	1	1	2
hsa-miR-3154	SPRY3	1	1	2
hsa-miR-4327	C9orf66	1	1	2
hsa-miR-134-3p	TMEM132E	1	1	2
hsa-miR-134-3p	FAM199X	1	1	2
hsa-miR-3154	SLMO1	1	1	2
hsa-miR-493-5p	MYCBP2	1	1	2
hsa-miR-4327	DDAH1	1	1	2
hsa-miR-5010-5p	STC1	1	1	2
hsa-miR-3176	MGAT3	1	1	2
hsa-miR-3154	UBE2L6	1	1	2
hsa-miR-4738-3p	NFIL3	1	1	2
hsa-miR-4738-3p	CREBZF	1	1	2
hsa-miR-224-3p	ZNF177	1	1	2
hsa-miR-493-5p	BRD7	1	1	2
hsa-miR-5195-5p	SPO11	1	1	2
hsa-miR-3154	MBD6	1	1	2
hsa-miR-3688-3p	SVEP1	1	1	2
hsa-miR-134-3p	TAB2	1	1	2
hsa-miR-3145-5p	BEND4	1	1	2
hsa-miR-3154	SMIM20	1	1	2
hsa-miR-3145-5p	KLHL23	1	1	2
hsa-miR-3189-3p	VEZF1	1	1	2
hsa-miR-3154	TMEM245	1	1	2
hsa-miR-3688-3p	OGFOD1	1	1	2
hsa-miR-3176	GREM1	1	1	2
hsa-miR-3154	PPM1D	1	1	2
hsa-miR-3176	RAB30	1	1	2
hsa-miR-3688-3p	MAP1B	1	1	2
hsa-miR-597-5p	PGRMC1	1	1	2
hsa-miR-3688-3p	TUBA1B	1	1	2
hsa-miR-3189-3p	ELTD1	1	1	2

Table SIII. Continued.

miRNA	Targets	TargetScan	mirDB	NumSum
hsa-miR-3154	RSPO4	1	1	2
hsa-miR-5009-3p	BPNT1	1	1	2
hsa-miR-4294	CSNK1D	1	1	2
hsa-miR-5009-3p	CXorf56	1	1	2
hsa-miR-597-5p	TLX1	1	1	2
hsa-miR-493-5p	DCUN1D1	1	1	2
hsa-miR-5010-5p	RNF125	1	1	2
hsa-miR-4738-3p	RBM42	1	1	2
hsa-miR-134-3p	AMD1	1	1	2
hsa-miR-493-5p	BASP1	1	1	2
hsa-miR-3154	TMEM183A	1	1	2
hsa-miR-3688-3p	PKIA	1	1	2
hsa-miR-3145-5p	TPT1	1	1	2
hsa-miR-3154	KIAA0513	1	1	2
hsa-miR-5195-5p	ZFAND3	1	1	2
hsa-miR-3688-3p	CSNK2A2	1	1	2
hsa-miR-224-3p	NRG3	1	1	2
hsa-miR-557	ISX	1	1	2
hsa-miR-597-5p	TRIM32	1	1	2
hsa-miR-5009-3p	SREK1IP1	1	1	2
hsa-miR-4294	ELL3	1	1	2
hsa-miR-3154	ACVR1B	1	1	2
hsa-miR-3688-3p	CYP17A1	1	1	2
hsa-miR-3189-3p	SH3PXD2A	1	1	2
hsa-miR-224-3p	SUCLG2	1	1	2
hsa-miR-5009-3p	TBC1D4	1	1	2
hsa-miR-3189-3p	FAM19A4	1	1	2
hsa-miR-3189-3p	OSCAR	1	1	2
hsa-miR-224-3p	PHAX	1	1	2
hsa-miR-3154	FAM76A	1	1	2
hsa-miR-3154	ZNRF1	1	1	2
hsa-miR-3176	MMP1	1	1	2
hsa-miR-3189-3p	SF3B2	1	1	2
hsa-miR-134-3p	CRMP1	1	1	2
hsa-miR-224-3p	OAS1	1	1	2
hsa-miR-3688-3p	CCDC102B	1	1	2
hsa-miR-3154	FAM60A	1	1	2
hsa-miR-134-3p	LDLRAD4	1	1	2
hsa-miR-3154	PPARG	1	1	2
hsa-miR-3154	EPB41L2	1	1	2
hsa-miR-5010-5p	COPG1	1	1	2
hsa-miR-134-3p	SMARCD1	1	1	2
hsa-miR-3189-3p	CDA	1	1	2
hsa-miR-4294	NEU1	1	1	2
hsa-miR-134-3p	B4GALNT1	1	1	2
hsa-miR-4294	ALOX15B	1	1	2
hsa-miR-493-5p	TMEM170B	1	1	2
hsa-miR-493-5p	VAMP2	1	1	2
hsa-miR-3176	C17orf62	1	1	2
hsa-miR-3176	GPC6	1	1	2
hsa-miR-3688-3p	H3F3A	1	1	2
hsa-miR-3688-3p	MPC1	1	1	2
hsa-miR-3176	PPP3R1	1	1	2
hsa-miR-134-3p	TNFAIP1	1	1	2
hsa-miR-4294	ZNF668	1	1	2
hsa-miR-493-5p	ARID1B	1	1	2

Table SIII. Continued.

miRNA	Targets	TargetScan	mirDB	NumSum
hsa-miR-3154	CD3D	1	1	2
hsa-miR-3688-3p	POLR2K	1	1	2
hsa-miR-493-5p	PGRMC2	1	1	2
hsa-miR-3688-3p	SEPP1	1	1	2
hsa-miR-493-5p	BTG1	1	1	2
hsa-miR-4294	OSGEP	1	1	2
hsa-miR-3154	SORCS1	1	1	2
hsa-miR-597-5p	TPPP	1	1	2
hsa-miR-4294	AGBL1	1	1	2
hsa-miR-3154	TBP	1	1	2
hsa-miR-3176	MYLK2	1	1	2
hsa-miR-4738-3p	PAG1	1	1	2
hsa-miR-4327	CREBBP	1	1	2
hsa-miR-345-3p	SLC10A6	1	1	2
hsa-miR-3154	C1orf226	1	1	2
hsa-miR-3189-3p	CASC3	1	1	2
hsa-miR-3176	PSRC1	1	1	2
hsa-miR-224-3p	UBTD2	1	1	2
hsa-miR-4294	CLEC4E	1	1	2
hsa-miR-134-3p	NINJ2	1	1	2
hsa-miR-3154	TRIM8	1	1	2
hsa-miR-134-3p	LRRC4B	1	1	2
hsa-miR-557	EIF4G2	1	1	2
hsa-miR-3154	ATXN2	1	1	2
hsa-miR-557	OLIG3	1	1	2
hsa-miR-224-3p	ZRANB2	1	1	2
hsa-miR-3154	APLN	1	1	2
hsa-miR-3145-5p	RCC2	1	1	2
hsa-miR-3688-3p	FMR1	1	1	2
hsa-miR-4294	TPX2	1	1	2
hsa-miR-3145-5p	RNF144B	1	1	2
hsa-miR-557	XPO4	1	1	2
hsa-miR-5010-5p	ARHGEF10	1	1	2
hsa-miR-5010-5p	KDELRL3	1	1	2
hsa-miR-3176	MED9	1	1	2
hsa-miR-5195-5p	RSPO2	1	1	2
hsa-miR-493-5p	SLC25A12	1	1	2
hsa-miR-3154	SYT1	1	1	2
hsa-miR-3189-3p	HDAC3	1	1	2
hsa-miR-557	GEM	1	1	2
hsa-miR-3189-3p	ANKRD6	1	1	2
hsa-miR-3145-5p	DZIP3	1	1	2
hsa-miR-493-5p	SP3	1	1	2
hsa-miR-3176	NUPR1	1	1	2
hsa-miR-224-3p	CSDE1	1	1	2
hsa-miR-493-5p	FUBP1	1	1	2
hsa-miR-3688-3p	OAZ2	1	1	2
hsa-miR-3154	CSF1	1	1	2
hsa-miR-345-3p	ZFP62	1	1	2
hsa-miR-5195-5p	IGSF5	1	1	2
hsa-miR-3145-5p	RSAD1	1	1	2
hsa-miR-3176	ZNF618	1	1	2
hsa-miR-345-3p	LPAR4	1	1	2
hsa-miR-3688-3p	ZNF131	1	1	2
hsa-miR-493-5p	NECAB1	1	1	2
hsa-miR-557	XRCC4	1	1	2

Table SIII. Continued.

miRNA	Targets	TargetScan	mirDB	NumSum
hsa-miR-4294	KATNAL2	1	1	2
hsa-miR-224-3p	EIF2A	1	1	2
hsa-miR-4294	ADRA2A	1	1	2
hsa-miR-3688-3p	PAK2	1	1	2
hsa-miR-3154	DESI1	1	1	2
hsa-miR-4294	PDZD11	1	1	2
hsa-miR-3154	NINJ2	1	1	2
hsa-miR-4294	DPP4	1	1	2
hsa-miR-4327	RGS17	1	1	2
hsa-miR-493-5p	FAM76B	1	1	2
hsa-miR-5009-3p	PJA2	1	1	2
hsa-miR-557	PAX6	1	1	2
hsa-miR-4294	FAM163A	1	1	2
hsa-miR-345-3p	SNRNP40	1	1	2
hsa-miR-557	LHX8	1	1	2
hsa-miR-3154	SFXN3	1	1	2
hsa-miR-3154	TIMP3	1	1	2
hsa-miR-4294	DTWD2	1	1	2
hsa-miR-3154	SCAF4	1	1	2
hsa-miR-3154	OTUB1	1	1	2
hsa-miR-134-3p	ANKRD54	1	1	2
hsa-miR-3154	DPF2	1	1	2
hsa-miR-3688-3p	CARD8	1	1	2
hsa-miR-4294	C6orf120	1	1	2
hsa-miR-3145-5p	THNSL1	1	1	2
hsa-miR-4294	MRGPRX2	1	1	2
hsa-miR-3176	CMTM6	1	1	2
hsa-miR-3176	LUZP1	1	1	2
hsa-miR-4327	FAM57A	1	1	2
hsa-miR-4738-3p	ARHGAP28	1	1	2
hsa-miR-138-2-3p	RBM41	1	1	2
hsa-miR-345-3p	SERTAD3	1	1	2
hsa-miR-493-5p	IL1A	1	1	2
hsa-miR-3154	ZAR1	1	1	2
hsa-miR-224-3p	PROK2	1	1	2
hsa-miR-3176	RUNX1T1	1	1	2
hsa-miR-4294	CLIC5	1	1	2
hsa-miR-3154	TPI1	1	1	2
hsa-miR-3176	GRAMD4	1	1	2
hsa-miR-224-3p	RB1CC1	1	1	2
hsa-miR-3154	SEMA4A	1	1	2
hsa-miR-3154	SEPT3	1	1	2
hsa-miR-3145-5p	MAPK1IP1L	1	1	2
hsa-miR-597-5p	UGT2A3	1	1	2
hsa-miR-3176	KIAA0141	1	1	2
hsa-miR-557	MEIS1	1	1	2
hsa-miR-3176	RILPL1	1	1	2
hsa-miR-557	LIMS1	1	1	2
hsa-miR-4294	C8orf4	1	1	2
hsa-miR-4294	KRTAP24-1	1	1	2
hsa-miR-5009-3p	GATM	1	1	2
hsa-miR-5195-5p	DLD	1	1	2
hsa-miR-134-3p	RASSF4	1	1	2
hsa-miR-3688-3p	INPP5E	1	1	2
hsa-miR-5010-5p	TACR1	1	1	2
hsa-miR-3154	SOX8	1	1	2

Table SIII. Continued.

miRNA	Targets	TargetScan	mirDB	NumSum
hsa-miR-3688-3p	CHIC1	1	1	2
hsa-miR-4294	C9orf171	1	1	2
hsa-miR-493-5p	AHDC1	1	1	2
hsa-miR-3145-5p	STRN4	1	1	2
hsa-miR-3154	TERF2	1	1	2
hsa-miR-5010-5p	GNG7	1	1	2
hsa-miR-3688-3p	PLEKHF2	1	1	2
hsa-miR-3154	HOXB8	1	1	2
hsa-miR-3176	DSTN	1	1	2
hsa-miR-224-3p	HNRNPM	1	1	2
hsa-miR-5010-5p	STMN2	1	1	2
hsa-miR-3145-5p	STRN3	1	1	2
hsa-miR-3154	RGS4	1	1	2
hsa-miR-4294	PLEKHG5	1	1	2
hsa-miR-5009-3p	FAM63B	1	1	2
hsa-miR-3688-3p	DCTN4	1	1	2
hsa-miR-134-3p	NR6A1	1	1	2
hsa-miR-134-3p	FGF1	1	1	2
hsa-miR-3154	PDP1	1	1	2
hsa-miR-3154	NKIRAS2	1	1	2
hsa-miR-4327	PUM1	1	1	2
hsa-miR-5009-3p	KHDRBS1	1	1	2
hsa-miR-557	EIF3J	1	1	2
hsa-miR-5010-5p	RAB11FIP5	1	1	2
hsa-miR-5009-3p	SERPINI1	1	1	2
hsa-miR-3688-3p	C1orf21	1	1	2
hsa-miR-3688-3p	GID8	1	1	2
hsa-miR-3189-3p	WNT3	1	1	2
hsa-miR-3154	MAPKAPK2	1	1	2
hsa-miR-493-5p	GAS1	1	1	2
hsa-miR-3176	SERPINA11	1	1	2
hsa-miR-134-3p	NKAIN1	1	1	2
hsa-miR-557	GGNBP2	1	1	2
hsa-miR-3688-3p	RSAD2	1	1	2
hsa-miR-597-5p	GPR128	1	1	2
hsa-miR-4294	SNCB	1	1	2
hsa-miR-3154	WNT2	1	1	2
hsa-miR-3154	NPL	1	1	2
hsa-miR-557	TNFSF11	1	1	2
hsa-miR-224-3p	PRPF39	1	1	2
hsa-miR-3154	LDLRAD3	1	1	2
hsa-miR-5010-5p	PTPRR	1	1	2
hsa-miR-5195-5p	ADRB2	1	1	2
hsa-miR-4738-3p	PCBP2	1	1	2
hsa-miR-597-5p	PRG4	1	1	2
hsa-miR-4738-3p	DDX52	1	1	2
hsa-miR-134-3p	MARCKS	1	1	2
hsa-miR-5010-5p	NUDT15	1	1	2
hsa-miR-345-3p	PPP2CA	1	1	2
hsa-miR-3154	C2CD2L	1	1	2
hsa-miR-3688-3p	NEUROD4	1	1	2
hsa-miR-3189-3p	ZBTB26	1	1	2
hsa-miR-4294	TFG	1	1	2
hsa-miR-3189-3p	ARHGEF25	1	1	2
hsa-miR-5009-3p	RPL15	1	1	2
hsa-miR-3688-3p	C9orf40	1	1	2

Table SIII. Continued.

miRNA	Targets	TargetScan	mirDB	NumSum
hsa-miR-5195-5p	STC1	1	1	2
hsa-miR-3688-3p	RBBP9	1	1	2
hsa-miR-3189-3p	IQCK	1	1	2
hsa-miR-5010-5p	CUX1	1	1	2
hsa-miR-5195-5p	SLC18A2	1	1	2
hsa-miR-3145-5p	FAM26E	1	1	2
hsa-miR-3189-3p	EFCAB2	1	1	2
hsa-miR-597-5p	DDX6	1	1	2
hsa-miR-224-3p	DIMT1	1	1	2
hsa-miR-493-5p	GATA2	1	1	2
hsa-miR-493-5p	ATAD5	1	1	2
hsa-miR-3154	POU3F4	1	1	2
hsa-miR-3688-3p	RNF2	1	1	2
hsa-miR-3176	GTF3C1	1	1	2
hsa-miR-5195-5p	CHRNA9	1	1	2
hsa-miR-3189-3p	HMGCLL1	1	1	2
hsa-miR-3176	LRRCS5	1	1	2
hsa-miR-3176	CST3	1	1	2
hsa-miR-224-3p	RBM22	1	1	2
hsa-miR-5195-5p	RNF182	1	1	2
hsa-miR-3154	SCAMP5	1	1	2
hsa-miR-3176	CSDC2	1	1	2
hsa-miR-134-3p	MMS19	1	1	2
hsa-miR-134-3p	DERL3	1	1	2
hsa-miR-3154	SRD5A1	1	1	2
hsa-miR-134-3p	CD99L2	1	1	2
hsa-miR-3145-5p	TMOD2	1	1	2
hsa-miR-493-5p	HNRNPA0	1	1	2
hsa-miR-5195-5p	POLR2A	1	1	2
hsa-miR-134-3p	PVRL1	1	1	2
hsa-miR-345-3p	MAP3K1	1	1	2
hsa-miR-5009-3p	RAB40B	1	1	2
hsa-miR-345-3p	ELOVL4	1	1	2
hsa-miR-557	C2orf74	1	1	2
hsa-miR-5009-3p	GGACT	1	1	2
hsa-miR-3154	URM1	1	1	2
hsa-miR-134-3p	CDK5	1	1	2
hsa-miR-5195-5p	ARHGEF33	1	1	2
hsa-miR-3176	SLC9A8	1	1	2
hsa-miR-557	GATM	1	1	2
hsa-miR-3176	PCDH12	1	1	2
hsa-miR-3145-5p	ENO4	1	1	2
hsa-miR-493-5p	MEF2C	1	1	2
hsa-miR-5010-5p	PPT2	1	1	2
hsa-miR-3176	URM1	1	1	2
hsa-miR-3688-3p	CCNY	1	1	2
hsa-miR-134-3p	G2E3	1	1	2
hsa-miR-3154	KY	1	1	2
hsa-miR-134-3p	DUSP4	1	1	2
hsa-miR-3189-3p	BASP1	1	1	2
hsa-miR-224-3p	LZIC	1	1	2
hsa-miR-4738-3p	NDUFAF5	1	1	2
hsa-miR-5010-5p	NAB2	1	1	2
hsa-miR-597-5p	SFN	1	1	2
hsa-miR-3145-5p	SPIN3	1	1	2
hsa-miR-345-3p	ZNF586	1	1	2

Table SIII. Continued.

miRNA	Targets	TargetScan	mirDB	NumSum
hsa-miR-345-3p	DAZAP2	1	1	2
hsa-miR-3688-3p	HSPE1	1	1	2
hsa-miR-597-5p	SNW1	1	1	2
hsa-miR-224-3p	IL1RAP	1	1	2
hsa-miR-134-3p	BCL2L13	1	1	2
hsa-miR-4327	HoxA3	1	1	2
hsa-miR-557	NELL2	1	1	2
hsa-miR-5010-5p	PSENEN	1	1	2
hsa-miR-597-5p	G3BP2	1	1	2
hsa-miR-5195-5p	PPP3CA	1	1	2
hsa-miR-3154	POU2AF1	1	1	2
hsa-miR-224-3p	ZC3H7A	1	1	2
hsa-miR-557	FST	1	1	2
hsa-miR-3176	FAM20B	1	1	2
hsa-miR-3154	GML	1	1	2
hsa-miR-3189-3p	FEV	1	1	2
hsa-miR-3154	ARF3	1	1	2
hsa-miR-3189-3p	KANSL3	1	1	2
hsa-miR-3688-3p	SERP1	1	1	2
hsa-miR-557	AKIRIN1	1	1	2
hsa-miR-4738-3p	CKAP2	1	1	2
hsa-miR-3688-3p	VAMP4	1	1	2
hsa-miR-4294	SPOCK1	1	1	2
hsa-miR-5195-5p	FUT10	1	1	2
hsa-miR-3154	OST4	1	1	2
hsa-miR-3688-3p	YAP1	1	1	2
hsa-miR-3688-3p	HNMT	1	1	2
hsa-miR-3154	NEUROG2	1	1	2
hsa-miR-4294	FAM86B1	1	1	2
hsa-miR-3176	ARHGDIB	1	1	2
hsa-miR-5009-3p	DKK2	1	1	2
hsa-miR-597-5p	XPO7	1	1	2
hsa-miR-3154	TBC1D5	1	1	2
hsa-miR-3189-3p	MS4A15	1	1	2
hsa-miR-134-3p	FAM222B	1	1	2
hsa-miR-557	OSM	1	1	2
hsa-miR-3154	USP2	1	1	2
hsa-miR-493-5p	NCAPH	1	1	2
hsa-miR-4294	SSR2	1	1	2
hsa-miR-3189-3p	PCNT	1	1	2
hsa-miR-3189-3p	PCBP4	1	1	2
hsa-miR-345-3p	ZKSCAN5	1	1	2
hsa-miR-4294	MS4A2	1	1	2
hsa-miR-4294	RP2	1	1	2
hsa-miR-134-3p	TREML2	1	1	2
hsa-miR-4327	CPSF6	1	1	2
hsa-miR-5195-5p	RYK	1	1	2
hsa-miR-4327	CMSS1	1	1	2
hsa-miR-224-3p	MRPL47	1	1	2
hsa-miR-3688-3p	BRMS1L	1	1	2
hsa-miR-557	MDGA2	1	1	2
hsa-miR-3154	SKI	1	1	2
hsa-miR-5010-5p	MSS51	1	1	2
hsa-miR-3145-5p	TCEA1	1	1	2
hsa-miR-134-3p	SSBP2	1	1	2
hsa-miR-4294	WIPF2	1	1	2

Table SIII. Continued.

miRNA	Targets	TargetScan	mirDB	NumSum
hsa-miR-3189-3p	CORO2B	1	1	2
hsa-miR-4327	CALCR	1	1	2
hsa-miR-224-3p	RAB7L1	1	1	2
hsa-miR-5009-3p	PTN	1	1	2
hsa-miR-345-3p	PI4K2B	1	1	2
hsa-miR-3154	MLF2	1	1	2
hsa-miR-4294	TREML1	1	1	2
hsa-miR-597-5p	GJB7	1	1	2
hsa-miR-597-5p	CREBZF	1	1	2
hsa-miR-4327	FBXO30	1	1	2
hsa-miR-3154	TP53INP2	1	1	2
hsa-miR-4327	TCF12	1	1	2
hsa-miR-3688-3p	MITF	1	1	2
hsa-miR-3154	PIANP	1	1	2
hsa-miR-557	LUM	1	1	2
hsa-miR-3189-3p	ZNF436	1	1	2
hsa-miR-5009-3p	EIF1AX	1	1	2
hsa-miR-3145-5p	STK39	1	1	2
hsa-miR-3189-3p	KLHL29	1	1	2
hsa-miR-3688-3p	FRMD3	1	1	2
hsa-miR-3145-5p	DARS	1	1	2
hsa-miR-3189-3p	PAAF1	1	1	2
hsa-miR-3176	BMF	1	1	2
hsa-miR-4327	SPIN1	1	1	2
hsa-miR-3154	FAM181B	1	1	2
hsa-miR-3189-3p	BRSK1	1	1	2
hsa-miR-5010-5p	SLC35A4	1	1	2
hsa-miR-3154	NXP2	1	1	2
hsa-miR-597-5p	LCK	1	1	2
hsa-miR-5010-5p	PLK3	1	1	2
hsa-miR-3688-3p	CCDC6	1	1	2
hsa-miR-493-5p	SCAMP2	1	1	2
hsa-miR-3176	GALNT14	1	1	2
hsa-miR-3154	CD84	1	1	2
hsa-miR-224-3p	DOCK7	1	1	2
hsa-miR-5195-5p	MYF6	1	1	2
hsa-miR-3154	AMBN	1	1	2
hsa-miR-345-3p	CCDC126	1	1	2
hsa-miR-5010-5p	SLC5A8	1	1	2
hsa-miR-134-3p	KIAA1045	1	1	2
hsa-miR-3688-3p	RBM45	1	1	2
hsa-miR-5195-5p	KCNJ1	1	1	2
hsa-miR-224-3p	C5orf24	1	1	2
hsa-miR-3688-3p	LANCL1	1	1	2
hsa-miR-5010-5p	ENTPD2	1	1	2
hsa-miR-3154	HNF1B	1	1	2
hsa-miR-3145-5p	DPY19L3	1	1	2
hsa-miR-4738-3p	C11orf1	1	1	2
hsa-miR-3189-3p	SSR1	1	1	2
hsa-miR-4327	SOX2	1	1	2
hsa-miR-345-3p	HDC	1	1	2
hsa-miR-493-5p	PAPSS2	1	1	2
hsa-miR-597-5p	C17orf85	1	1	2
hsa-miR-3189-3p	HINFP	1	1	2
hsa-miR-4294	LENEP	1	1	2
hsa-miR-345-3p	UBE2G1	1	1	2

Table SIII. Continued.

miRNA	Targets	TargetScan	mirDB	NumSum
hsa-miR-3154	ADRB3	1	1	2
hsa-miR-3189-3p	WAS	1	1	2
hsa-miR-3154	SLC25A15	1	1	2
hsa-miR-3176	PIGH	1	1	2
hsa-miR-5009-3p	MSN	1	1	2
hsa-miR-345-3p	CER1	1	1	2
hsa-miR-134-3p	GUCD1	1	1	2
hsa-miR-4327	CLEC4D	1	1	2
hsa-miR-5009-3p	TMEM169	1	1	2
hsa-miR-557	FGFBP3	1	1	2
hsa-miR-3154	C9orf152	1	1	2
hsa-miR-597-5p	GIMAP8	1	1	2
hsa-miR-557	MS4A13	1	1	2
hsa-miR-3189-3p	RBMX	1	1	2
hsa-miR-3154	VAMP1	1	1	2
hsa-miR-3189-3p	TMBIM1	1	1	2
hsa-miR-3688-3p	UTS2B	1	1	2
hsa-miR-3176	YPEL1	1	1	2
hsa-miR-493-5p	TMEM106B	1	1	2
hsa-miR-345-3p	CCDC170	1	1	2
hsa-miR-5010-5p	NCAN	1	1	2
hsa-miR-134-3p	BTG2	1	1	2
hsa-miR-493-5p	APOO	1	1	2
hsa-miR-3176	TRMT61A	1	1	2
hsa-miR-5195-5p	CAMLG	1	1	2
hsa-miR-3145-5p	DCLRE1B	1	1	2
hsa-miR-3189-3p	MAP1A	1	1	2
hsa-miR-493-5p	GTF2IRD1	1	1	2
hsa-miR-5009-3p	RPRD1B	1	1	2
hsa-miR-5009-3p	NDFIP2	1	1	2
hsa-miR-4294	KLRK1	1	1	2
hsa-miR-5009-3p	EFCAB1	1	1	2
hsa-miR-4327	KMT2E	1	1	2
hsa-miR-4294	CSNK2A2	1	1	2
hsa-miR-224-3p	SNAP25	1	1	2
hsa-miR-3154	NPEPPS	1	1	2
hsa-miR-134-3p	C4orf26	1	1	2
hsa-miR-3145-5p	RFESD	1	1	2
hsa-miR-134-3p	TUBD1	1	1	2
hsa-miR-3145-5p	MIER1	1	1	2
hsa-miR-224-3p	TMTC4	1	1	2
hsa-miR-3145-5p	CREBZF	1	1	2
hsa-miR-134-3p	STXBP1	1	1	2
hsa-miR-3688-3p	YPEL5	1	1	2
hsa-miR-5010-5p	TSPYL2	1	1	2
hsa-miR-224-3p	GJB2	1	1	2
hsa-miR-3145-5p	SLC9A6	1	1	2
hsa-miR-557	ADAM17	1	1	2
hsa-miR-3154	LIN54	1	1	2
hsa-miR-3189-3p	GPR116	1	1	2
hsa-miR-4294	TNFRSF11B	1	1	2
hsa-miR-4327	ZNF770	1	1	2
hsa-miR-134-3p	JAM2	1	1	2
hsa-miR-3145-5p	USP44	1	1	2
hsa-miR-3189-3p	ETF1	1	1	2
hsa-miR-3189-3p	DNAJC11	1	1	2

TargetScan version 7.1; mirDB version 5. NumSum, number summary.

Table SIV. Patients with high-grade spinal cord gliomas.

miRNA	Targets	TargetScan	mirDB	NumSum
hsa-miR-32-5p	PIK3CB	1	1	2
hsa-miR-130b-3p	STX6	1	1	2
hsa-miR-190a-5p	MED4	1	1	2
hsa-miR-32-5p	CNEP1R1	1	1	2
hsa-miR-130b-3p	ACSL1	1	1	2
hsa-miR-32-5p	CD69	1	1	2
hsa-miR-454-3p	TBL1XR1	1	1	2
hsa-miR-4436b-3p	NPLOC4	1	1	2
hsa-miR-1297	THAP2	1	1	2
hsa-miR-143-5p	ZNF85	1	1	2
hsa-miR-32-5p	SLC24A3	1	1	2
hsa-miR-454-3p	PTP4A1	1	1	2
hsa-miR-32-5p	DSCAML1	1	1	2
hsa-let-7f-5p	RGS16	1	1	2
hsa-let-7f-5p	USP38	1	1	2
hsa-miR-130b-3p	C16orf70	1	1	2
hsa-let-7i-5p	BZW1	1	1	2
hsa-miR-454-3p	KDM2A	1	1	2
hsa-miR-32-5p	PPP1R12A	1	1	2
hsa-miR-4463	IGSF21	1	1	2
hsa-miR-130b-3p	CPEB3	1	1	2
hsa-miR-18a-5p	MAP7D1	1	1	2
hsa-miR-130b-3p	FBXO28	1	1	2
hsa-miR-920	ATP11A	1	1	2
hsa-miR-130b-3p	SNX2	1	1	2
hsa-miR-32-5p	GLYR1	1	1	2
hsa-miR-454-3p	CLCN5	1	1	2
hsa-miR-4436b-3p	C11orf44	1	1	2
hsa-miR-130b-3p	MB21D2	1	1	2
hsa-let-7i-5p	FOXP2	1	1	2
hsa-miR-454-3p	CDS1	1	1	2
hsa-miR-32-5p	HAND2	1	1	2
hsa-let-7d-5p	RAB11FIP4	1	1	2
hsa-miR-3196	EEF1A2	1	1	2
hsa-miR-130b-3p	FMR1	1	1	2
hsa-miR-4436b-3p	STAB2	1	1	2
hsa-miR-3196	KMT2D	1	1	2
hsa-miR-130b-3p	SMOC2	1	1	2
hsa-miR-32-5p	RAB23	1	1	2
hsa-let-7d-5p	FRMD4B	1	1	2
hsa-let-7i-5p	PGRMC1	1	1	2
hsa-let-7f-5p	AKAP6	1	1	2
hsa-miR-548ab	CCNG2	1	1	2
hsa-miR-545-5p	TJAP1	1	1	2
hsa-let-7f-5p	PLXNC1	1	1	2
hsa-miR-454-3p	SBF2	1	1	2
hsa-miR-4463	GLIPR1L2	1	1	2
hsa-let-7f-5p	PALD1	1	1	2
hsa-miR-4463	NME7	1	1	2
hsa-miR-454-3p	HPRT1	1	1	2
hsa-let-7f-5p	HIC2	1	1	2
hsa-miR-454-3p	SLAIN1	1	1	2
hsa-let-7f-5p	EIF4G2	1	1	2
hsa-let-7i-5p	PBX3	1	1	2
hsa-miR-18a-5p	AEBP2	1	1	2
hsa-miR-4436b-3p	LIN28A	1	1	2

Table SIV. Continued.

miRNA	Targets	TargetScan	mirDB	NumSum
hsa-let-7d-5p	FIGN	1	1	2
hsa-let-7i-5p	SLC5A9	1	1	2
hsa-miR-3173-3p	GRIN2B	1	1	2
hsa-let-7i-5p	LIPT2	1	1	2
hsa-let-7i-5p	PCGF3	1	1	2
hsa-miR-4436b-3p	SRRD	1	1	2
hsa-miR-32-5p	RBM47	1	1	2
hsa-miR-18a-5p	ZFP36L1	1	1	2
hsa-miR-32-5p	ARRDC3	1	1	2
hsa-let-7d-5p	GALC	1	1	2
hsa-let-7i-5p	SCN4B	1	1	2
hsa-let-7i-5p	ZNF583	1	1	2
hsa-miR-545-5p	SETD2	1	1	2
hsa-let-7f-5p	UTRN	1	1	2
hsa-miR-3196	KLK9	1	1	2
hsa-miR-545-5p	NDUFB6	1	1	2
hsa-let-7d-5p	TET3	1	1	2
hsa-let-7i-5p	MAPK6	1	1	2
hsa-let-7i-5p	TTLL4	1	1	2
hsa-miR-454-3p	SMARCD2	1	1	2
hsa-miR-32-5p	SLC32A1	1	1	2
hsa-miR-130b-3p	CPEB1	1	1	2
hsa-miR-4436b-3p	SCML1	1	1	2
hsa-miR-4436b-3p	FAM86A	1	1	2
hsa-miR-454-3p	RBM25	1	1	2
hsa-let-7d-5p	AKAP6	1	1	2
hsa-miR-130b-3p	JARID2	1	1	2
hsa-miR-130b-3p	TMEM159	1	1	2
hsa-let-7i-5p	NR6A1	1	1	2
hsa-let-7f-5p	SLC25A27	1	1	2
hsa-let-7i-5p	RASGRP1	1	1	2
hsa-let-7f-5p	GLRX	1	1	2
hsa-miR-130b-3p	ZMAT3	1	1	2
hsa-miR-4436b-3p	TRIM35	1	1	2
hsa-let-7f-5p	UHRF2	1	1	2
hsa-miR-18a-5p	SORBS2	1	1	2
hsa-miR-454-3p	STIM2	1	1	2
hsa-let-7d-5p	GALNT1	1	1	2
hsa-miR-130b-3p	HIVEP2	1	1	2
hsa-miR-1297	GNPNAT1	1	1	2
hsa-miR-130b-3p	ARID4B	1	1	2
hsa-miR-4436b-3p	SEPT3	1	1	2
hsa-let-7i-5p	PAPPA	1	1	2
hsa-miR-18a-5p	FRS2	1	1	2
hsa-miR-32-5p	KIAA1109	1	1	2
hsa-miR-4463	EMB	1	1	2
hsa-let-7f-5p	TARBP2	1	1	2
hsa-miR-3173-3p	KCNK9	1	1	2
hsa-miR-1297	RNF141	1	1	2
hsa-miR-32-5p	NECAP1	1	1	2
hsa-miR-4463	SURF4	1	1	2
hsa-miR-32-5p	LEPREL2	1	1	2
hsa-miR-3196	PTBP1	1	1	2
hsa-let-7i-5p	NXT2	1	1	2
hsa-let-7f-5p	LIN28B	1	1	2
hsa-let-7i-5p	TRIM71	1	1	2

Table SIV. Continued.

miRNA	Targets	TargetScan	mirDB	NumSum
hsa-miR-4463	TMEM74	1	1	2
hsa-let-7d-5p	GNPTAB	1	1	2
hsa-let-7i-5p	GNG5	1	1	2
hsa-let-7d-5p	FNIP1	1	1	2
hsa-miR-1297	ADAM9	1	1	2
hsa-miR-130b-3p	SLC35D1	1	1	2
hsa-miR-4436b-3p	TTC39A	1	1	2
hsa-miR-4436b-3p	TMEM154	1	1	2
hsa-miR-130b-3p	MIER1	1	1	2
hsa-miR-4436b-3p	TRIM9	1	1	2
hsa-let-7f-5p	YOD1	1	1	2
hsa-miR-454-3p	ZBTB18	1	1	2
hsa-miR-548ab	AK3	1	1	2
hsa-miR-545-5p	CDS1	1	1	2
hsa-miR-454-3p	KCNA4	1	1	2
hsa-let-7f-5p	ZNF512B	1	1	2
hsa-miR-548ab	URI1	1	1	2
hsa-miR-32-5p	PTGER4	1	1	2
hsa-let-7i-5p	RRM2	1	1	2
hsa-miR-4436b-3p	PARP6	1	1	2
hsa-let-7d-5p	THAP9	1	1	2
hsa-miR-3173-3p	APH1A	1	1	2
hsa-miR-1297	MTX2	1	1	2
hsa-let-7i-5p	FRMD4B	1	1	2
hsa-miR-18a-5p	KCNJ2	1	1	2
hsa-miR-4463	ZDHHC12	1	1	2
hsa-miR-454-3p	GRB10	1	1	2
hsa-let-7i-5p	SKIL	1	1	2
hsa-miR-130b-3p	RFX7	1	1	2
hsa-let-7d-5p	PCGF3	1	1	2
hsa-miR-548ab	MAB21L2	1	1	2
hsa-let-7i-5p	TET3	1	1	2
hsa-let-7f-5p	CCNJ	1	1	2
hsa-miR-3196	PIK3R2	1	1	2
hsa-miR-548ab	MZT1	1	1	2
hsa-miR-454-3p	STK33	1	1	2
hsa-miR-32-5p	ADAM10	1	1	2
hsa-let-7f-5p	THAP9	1	1	2
hsa-miR-32-5p	BSDC1	1	1	2
hsa-miR-1297	HMGA2	1	1	2
hsa-let-7i-5p	RGS16	1	1	2
hsa-miR-18a-5p	SOCS5	1	1	2
hsa-miR-545-5p	MBNL1	1	1	2
hsa-let-7d-5p	PARD6B	1	1	2
hsa-miR-130b-3p	EFR3A	1	1	2
hsa-miR-4436b-3p	SLC37A3	1	1	2
hsa-miR-18a-5p	TRIOBP	1	1	2
hsa-miR-920	SMCR8	1	1	2
hsa-let-7f-5p	FNIP1	1	1	2
hsa-miR-130b-3p	TROVE2	1	1	2
hsa-let-7f-5p	IGF1R	1	1	2
hsa-miR-130b-3p	CDS1	1	1	2
hsa-let-7i-5p	SLC20A1	1	1	2
hsa-let-7i-5p	EDN1	1	1	2
hsa-miR-545-5p	NBEAL1	1	1	2
hsa-miR-32-5p	C11orf24	1	1	2

Table SIV. Continued.

miRNA	Targets	TargetScan	mirDB	NumSum
hsa-miR-454-3p	PSD	1	1	2
hsa-let-7i-5p	COL4A6	1	1	2
hsa-miR-130b-3p	LONRF1	1	1	2
hsa-let-7f-5p	GCNT4	1	1	2
hsa-let-7f-5p	CPEB1	1	1	2
hsa-miR-454-3p	TMEM170B	1	1	2
hsa-miR-454-3p	FBXO28	1	1	2
hsa-miR-32-5p	SOCS5	1	1	2
hsa-miR-130b-3p	BTF3L4	1	1	2
hsa-miR-143-5p	CITED2	1	1	2
hsa-miR-454-3p	BRWD1	1	1	2
hsa-miR-548ab	MGARP	1	1	2
hsa-miR-32-5p	RASSF3	1	1	2
hsa-miR-130b-3p	BTBD7	1	1	2
hsa-miR-454-3p	CCDC126	1	1	2
hsa-let-7d-5p	FNDC3A	1	1	2
hsa-let-7f-5p	PARD6B	1	1	2
hsa-let-7d-5p	LRIG2	1	1	2
hsa-miR-920	NUCB2	1	1	2
hsa-miR-3196	VSTM2L	1	1	2
hsa-miR-454-3p	EFR3A	1	1	2
hsa-miR-4436b-3p	TMEM110	1	1	2
hsa-miR-32-5p	REV3L	1	1	2
hsa-miR-130b-3p	FIBIN	1	1	2
hsa-miR-3173-3p	PLEKHS1	1	1	2
hsa-let-7f-5p	DLST	1	1	2
hsa-let-7f-5p	BIN3	1	1	2
hsa-miR-4436b-3p	STK35	1	1	2
hsa-miR-130b-3p	RPA2	1	1	2
hsa-let-7f-5p	GAS7	1	1	2
hsa-miR-3613-5p	MAP3K1	1	1	2
hsa-let-7d-5p	ULK2	1	1	2
hsa-miR-130b-3p	ULK2	1	1	2
hsa-miR-454-3p	C5orf30	1	1	2
hsa-miR-190a-5p	KCNQ5	1	1	2
hsa-miR-454-3p	SKP1	1	1	2
hsa-miR-32-5p	CAMK2A	1	1	2
hsa-miR-454-3p	SKIDA1	1	1	2
hsa-miR-3173-3p	APOBEC3H	1	1	2
hsa-let-7d-5p	AMT	1	1	2
hsa-let-7f-5p	LIMD2	1	1	2
hsa-miR-32-5p	SSFA2	1	1	2
hsa-let-7d-5p	C15orf41	1	1	2
hsa-miR-32-5p	KLF4	1	1	2
hsa-let-7f-5p	MXD1	1	1	2
hsa-miR-548ab	ARL13B	1	1	2
hsa-miR-548ab	MBIP	1	1	2
hsa-miR-454-3p	SECISBP2L	1	1	2
hsa-miR-920	KMT2D	1	1	2
hsa-let-7i-5p	PRRX1	1	1	2
hsa-miR-920	COL8A2	1	1	2
hsa-miR-1297	NUS1	1	1	2
hsa-miR-454-3p	SNX5	1	1	2
hsa-miR-130b-3p	MBNL1	1	1	2
hsa-miR-454-3p	NPAT	1	1	2
hsa-let-7f-5p	RSPO2	1	1	2

Table SIV. Continued.

miRNA	Targets	TargetScan	mirDB	NumSum
hsa-miR-130b-3p	OTUD3	1	1	2
hsa-miR-545-5p	SFPQ	1	1	2
hsa-miR-32-5p	FZD10	1	1	2
hsa-miR-130b-3p	PRKAA1	1	1	2
hsa-miR-130b-3p	LDLR	1	1	2
hsa-let-7d-5p	OSBPL3	1	1	2
hsa-miR-4436b-3p	KIAA0247	1	1	2
hsa-miR-4436b-3p	RASSF2	1	1	2
hsa-let-7d-5p	PXT1	1	1	2
hsa-miR-3173-3p	MAL2	1	1	2
hsa-miR-130b-3p	JAKMIP1	1	1	2
hsa-miR-143-5p	SKIDA1	1	1	2
hsa-miR-130b-3p	WDR47	1	1	2
hsa-let-7i-5p	GLRX	1	1	2
hsa-miR-548ab	MAPK6	1	1	2
hsa-let-7i-5p	NDST2	1	1	2
hsa-miR-143-5p	PDX1	1	1	2
hsa-miR-545-5p	SGPP1	1	1	2
hsa-miR-1297	SYT10	1	1	2
hsa-miR-545-5p	TSGA10	1	1	2
hsa-let-7f-5p	SLC5A9	1	1	2
hsa-let-7i-5p	SMIM3	1	1	2
hsa-miR-3613-5p	RAD9B	1	1	2
hsa-miR-130b-3p	TMEM110	1	1	2
hsa-miR-143-5p	SHQ1	1	1	2
hsa-miR-132-5p	SENP3	1	1	2
hsa-let-7f-5p	COL24A1	1	1	2
hsa-miR-32-5p	BTG2	1	1	2
hsa-let-7i-5p	NME6	1	1	2
hsa-miR-32-5p	ZFC3H1	1	1	2
hsa-miR-130b-3p	SLAIN1	1	1	2
hsa-miR-130b-3p	KCNA4	1	1	2
hsa-miR-545-5p	NUPR1L	1	1	2
hsa-miR-143-5p	VSNL1	1	1	2
hsa-let-7i-5p	UHRF2	1	1	2
hsa-miR-32-5p	HERPUD2	1	1	2
hsa-miR-454-3p	THOP1	1	1	2
hsa-let-7d-5p	SLC5A9	1	1	2
hsa-let-7i-5p	GPR26	1	1	2
hsa-miR-4436b-3p	KCNK3	1	1	2
hsa-miR-18a-5p	DIRAS2	1	1	2
hsa-miR-920	PPP1R18	1	1	2
hsa-miR-4436b-3p	AIF1L	1	1	2
hsa-miR-3196	PAX2	1	1	2
hsa-miR-3196	FBXO10	1	1	2
hsa-let-7d-5p	CLP1	1	1	2
hsa-miR-143-5p	SNX3	1	1	2
hsa-miR-143-5p	STMN1	1	1	2
hsa-miR-130b-3p	CHST1	1	1	2
hsa-miR-4463	TMEM9	1	1	2
hsa-miR-130b-3p	AGFG1	1	1	2
hsa-let-7i-5p	AP1S1	1	1	2
hsa-miR-545-5p	MMD	1	1	2
hsa-let-7d-5p	PPAPDC2	1	1	2
hsa-miR-18a-5p	CDK19	1	1	2
hsa-miR-130b-3p	LRIG1	1	1	2

Table SIV. Continued.

miRNA	Targets	TargetScan	mirDB	NumSum
hsa-miR-3173-3p	CGA	1	1	2
hsa-miR-32-5p	CHST7	1	1	2
hsa-miR-454-3p	RUNX3	1	1	2
hsa-miR-130b-3p	WDFY3	1	1	2
hsa-let-7i-5p	MTUS1	1	1	2
hsa-miR-454-3p	FAM175B	1	1	2
hsa-let-7d-5p	RGS16	1	1	2
hsa-miR-32-5p	FAR1	1	1	2
hsa-miR-130b-3p	RBM25	1	1	2
hsa-miR-4436b-3p	CHAF1A	1	1	2
hsa-let-7i-5p	ARHGAP28	1	1	2
hsa-miR-4463	KRT38	1	1	2
hsa-miR-3173-3p	ARID1A	1	1	2
hsa-miR-454-3p	DYNLL2	1	1	2
hsa-miR-3173-3p	CBL	1	1	2
hsa-miR-130b-3p	TGFBR2	1	1	2
hsa-miR-130b-3p	RNF145	1	1	2
hsa-miR-920	URM1	1	1	2
hsa-miR-32-5p	NSMAF	1	1	2
hsa-miR-454-3p	ULK2	1	1	2
hsa-let-7f-5p	ZFYVE26	1	1	2
hsa-miR-32-5p	DOCK9	1	1	2
hsa-let-7f-5p	NGF	1	1	2
hsa-miR-25-5p	CYP17A1	1	1	2
hsa-let-7i-5p	PBX1	1	1	2
hsa-let-7i-5p	BEGAIN	1	1	2
hsa-miR-32-5p	NSG1	1	1	2
hsa-miR-3173-3p	HSPBP1	1	1	2
hsa-let-7f-5p	LBR	1	1	2
hsa-miR-1297	TTC13	1	1	2
hsa-miR-130b-3p	PTP4A1	1	1	2
hsa-miR-4436b-3p	C11orf86	1	1	2
hsa-let-7f-5p	GRPEL2	1	1	2
hsa-miR-3173-3p	TMEM164	1	1	2
hsa-let-7d-5p	YOD1	1	1	2
hsa-miR-143-5p	C5orf24	1	1	2
hsa-miR-1297	KLHL42	1	1	2
hsa-miR-3173-3p	PRDM16	1	1	2
hsa-miR-920	NUMA1	1	1	2
hsa-miR-1297	EPC1	1	1	2
hsa-miR-130b-3p	SLC6A6	1	1	2
hsa-miR-130b-3p	ABHD3	1	1	2
hsa-miR-454-3p	LCLAT1	1	1	2
hsa-let-7f-5p	AP1S1	1	1	2
hsa-miR-18a-5p	HMGCS1	1	1	2
hsa-miR-32-5p	DPY30	1	1	2
hsa-miR-130b-3p	PIGA	1	1	2
hsa-miR-454-3p	FSTL5	1	1	2
hsa-miR-545-5p	EYA4	1	1	2
hsa-miR-3173-3p	TOPORS	1	1	2
hsa-let-7f-5p	CASP3	1	1	2
hsa-miR-3173-3p	MCU	1	1	2
hsa-let-7i-5p	CEP135	1	1	2
hsa-miR-4436b-3p	TSPAN9	1	1	2
hsa-miR-32-5p	B3GALT2	1	1	2
hsa-miR-3173-3p	ATP6V0E1	1	1	2

Table SIV. Continued.

miRNA	Targets	TargetScan	mirDB	NumSum
hsa-let-7f-5p	NRAS	1	1	2
hsa-miR-4436b-3p	LSM12	1	1	2
hsa-let-7d-5p	CCL7	1	1	2
hsa-let-7f-5p	GATM	1	1	2
hsa-let-7d-5p	ARRDC4	1	1	2
hsa-miR-32-5p	DCAF6	1	1	2
hsa-let-7d-5p	BZW1	1	1	2
hsa-miR-920	THRA	1	1	2
hsa-let-7f-5p	TGFBR1	1	1	2
hsa-let-7i-5p	OSBPL3	1	1	2
hsa-miR-4436b-3p	TLL2	1	1	2
hsa-let-7d-5p	ZFYVE26	1	1	2
hsa-let-7i-5p	EIF4G2	1	1	2
hsa-miR-130b-3p	DDX6	1	1	2
hsa-miR-545-5p	ADORA2B	1	1	2
hsa-miR-18a-5p	ZBTB47	1	1	2
hsa-miR-3173-3p	TBC1D13	1	1	2
hsa-miR-548ab	CYBRD1	1	1	2
hsa-miR-454-3p	DYNC1LI2	1	1	2
hsa-miR-1297	BLOC1S2	1	1	2
hsa-miR-32-5p	SPRYD4	1	1	2
hsa-let-7d-5p	CCR7	1	1	2
hsa-let-7i-5p	FIGN	1	1	2
hsa-let-7d-5p	KLHL23	1	1	2
hsa-miR-130b-3p	LCLAT1	1	1	2
hsa-miR-4436b-3p	TMEM127	1	1	2
hsa-miR-18a-5p	ZBTB4	1	1	2
hsa-let-7f-5p	AHCTF1	1	1	2
hsa-miR-454-3p	ARHGAP12	1	1	2
hsa-let-7d-5p	RASGRP1	1	1	2
hsa-miR-4436b-3p	KIRREL	1	1	2
hsa-miR-18a-5p	INADL	1	1	2
hsa-miR-3173-3p	LDLRAP1	1	1	2
hsa-miR-1297	RDH14	1	1	2
hsa-miR-3173-3p	MEF2D	1	1	2
hsa-let-7d-5p	AHCTF1	1	1	2
hsa-miR-548ab	COMMD3-BMI1	1	1	2
hsa-miR-3173-3p	PRKAB2	1	1	2
hsa-miR-920	LASP1	1	1	2
hsa-let-7i-5p	C8orf58	1	1	2
hsa-let-7i-5p	DDX19A	1	1	2
hsa-miR-32-5p	SLC17A6	1	1	2
hsa-miR-32-5p	PCOLCE2	1	1	2
hsa-let-7d-5p	TMPPE	1	1	2
hsa-let-7d-5p	SCD	1	1	2
hsa-let-7i-5p	THRSP	1	1	2
hsa-miR-190a-5p	BAI3	1	1	2
hsa-let-7f-5p	E2F6	1	1	2
hsa-miR-4463	EBPL	1	1	2
hsa-miR-130b-3p	MID1IP1	1	1	2
hsa-miR-4463	KRTAP2-2	1	1	2
hsa-miR-454-3p	C7orf60	1	1	2
hsa-miR-32-5p	PDZD2	1	1	2
hsa-let-7i-5p	TRIM41	1	1	2
hsa-let-7f-5p	CCR7	1	1	2
hsa-miR-32-5p	SYNDIG1	1	1	2

Table SIV. Continued.

miRNA	Targets	TargetScan	mirDB	NumSum
hsa-miR-4436b-3p	PUM2	1	1	2
hsa-miR-4463	LOXL2	1	1	2
hsa-let-7d-5p	ZBTB8B	1	1	2
hsa-miR-454-3p	SMOC1	1	1	2
hsa-miR-130b-3p	ACVR1	1	1	2
hsa-let-7i-5p	LRIG3	1	1	2
hsa-let-7f-5p	GPR26	1	1	2
hsa-miR-1297	MTFMT	1	1	2
hsa-let-7f-5p	FZD3	1	1	2
hsa-miR-130b-3p	DNAJC16	1	1	2
hsa-let-7f-5p	TRIM71	1	1	2
hsa-miR-3196	MAPK15	1	1	2
hsa-miR-4436b-3p	CX3CL1	1	1	2
hsa-miR-548ab	GULP1	1	1	2
hsa-miR-32-5p	GNAQ	1	1	2
hsa-miR-32-5p	FAM135A	1	1	2
hsa-let-7i-5p	RNF20	1	1	2
hsa-let-7d-5p	E2F5	1	1	2
hsa-miR-548ab	FAM221A	1	1	2
hsa-miR-454-3p	CMPK1	1	1	2
hsa-miR-130b-3p	LONRF3	1	1	2
hsa-miR-3173-3p	DLG5	1	1	2
hsa-miR-130b-3p	FSTL5	1	1	2
hsa-miR-548ab	NUP54	1	1	2
hsa-miR-3173-3p	RASSF3	1	1	2
hsa-let-7f-5p	ZNF583	1	1	2
hsa-let-7i-5p	PPAPDC2	1	1	2
hsa-miR-32-5p	MOAP1	1	1	2
hsa-miR-4436b-3p	SSR1	1	1	2
hsa-miR-130b-3p	DYNC1LI2	1	1	2
hsa-miR-3613-5p	SERTAD4	1	1	2
hsa-miR-3613-5p	KLHL36	1	1	2
hsa-miR-3196	CDH23	1	1	2
hsa-let-7d-5p	CDC34	1	1	2
hsa-let-7i-5p	ZBTB8B	1	1	2
hsa-let-7f-5p	CLDN12	1	1	2
hsa-miR-920	LIMD2	1	1	2
hsa-let-7d-5p	MAP4K3	1	1	2
hsa-let-7i-5p	RPUSD2	1	1	2
hsa-let-7f-5p	CPA4	1	1	2
hsa-miR-454-3p	TMEM110	1	1	2
hsa-miR-3173-3p	SLC24A3	1	1	2
hsa-let-7d-5p	CLDN12	1	1	2
hsa-miR-130b-3p	CNOT7	1	1	2
hsa-let-7i-5p	AMT	1	1	2
hsa-let-7f-5p	LRIG3	1	1	2
hsa-miR-130b-3p	APCDD1	1	1	2
hsa-let-7d-5p	ZNF512B	1	1	2
hsa-miR-32-5p	MAN2A1	1	1	2
hsa-miR-920	RGR	1	1	2
hsa-let-7f-5p	SPRYD4	1	1	2
hsa-miR-920	NOA1	1	1	2
hsa-miR-454-3p	DNAJC16	1	1	2
hsa-miR-130b-3p	SYT6	1	1	2
hsa-let-7i-5p	RDX	1	1	2
hsa-let-7f-5p	CLP1	1	1	2

Table SIV. Continued.

miRNA	Targets	TargetScan	mirDB	NumSum
hsa-miR-130b-3p	HS3ST5	1	1	2
hsa-miR-3173-3p	CEP170	1	1	2
hsa-let-7d-5p	MED8	1	1	2
hsa-miR-130b-3p	PPARG	1	1	2
hsa-miR-1297	ACBD5	1	1	2
hsa-miR-454-3p	VPS37A	1	1	2
hsa-miR-1297	MINPP1	1	1	2
hsa-miR-143-5p	AKAP4	1	1	2
hsa-miR-545-5p	UGT2A3	1	1	2
hsa-let-7d-5p	TRIM41	1	1	2
hsa-miR-32-5p	MYO1B	1	1	2
hsa-miR-3173-3p	ZNF384	1	1	2
hsa-let-7f-5p	B3GNT7	1	1	2
hsa-let-7i-5p	SLC25A18	1	1	2
hsa-miR-32-5p	GFPT2	1	1	2
hsa-miR-143-5p	ZFP36L1	1	1	2
hsa-miR-4436b-3p	RHBDF2	1	1	2
hsa-miR-3613-5p	GPD2	1	1	2
hsa-let-7f-5p	SCD	1	1	2
hsa-miR-454-3p	IMPDH1	1	1	2
hsa-miR-130b-3p	SLC44A1	1	1	2
hsa-miR-920	LY6G6C	1	1	2
hsa-let-7i-5p	GALNT1	1	1	2
hsa-miR-920	GNAI2	1	1	2
hsa-let-7f-5p	MTUS1	1	1	2
hsa-miR-3196	ATP1A3	1	1	2
hsa-let-7d-5p	SMC1A	1	1	2
hsa-let-7f-5p	TRIM41	1	1	2
hsa-let-7i-5p	HMG A2	1	1	2
hsa-miR-3173-3p	NCS1	1	1	2
hsa-miR-32-5p	TOB2	1	1	2
hsa-let-7d-5p	CEP135	1	1	2
hsa-miR-4436b-3p	ETV4	1	1	2
hsa-miR-1297	CDK8	1	1	2
hsa-miR-3196	QSOX2	1	1	2
hsa-let-7f-5p	ADRB3	1	1	2
hsa-miR-32-5p	PLEKHB2	1	1	2
hsa-miR-4436b-3p	CACFD1	1	1	2
hsa-miR-4436b-3p	FHL1	1	1	2
hsa-miR-545-5p	GNG12	1	1	2
hsa-miR-454-3p	SNIP1	1	1	2
hsa-let-7f-5p	CDC34	1	1	2
hsa-miR-1297	SLC38A2	1	1	2
hsa-miR-454-3p	ARHGAP1	1	1	2
hsa-miR-548ab	EFHC2	1	1	2
hsa-miR-130b-3p	STIM2	1	1	2
hsa-let-7f-5p	OSBPL3	1	1	2
hsa-miR-130b-3p	SLC8A1	1	1	2
hsa-miR-920	USP39	1	1	2
hsa-let-7d-5p	SLC5A6	1	1	2
hsa-miR-130b-3p	FAM175B	1	1	2
hsa-miR-32-5p	CPEB2	1	1	2
hsa-miR-3173-3p	GTPBP1	1	1	2
hsa-miR-3173-3p	PLA2G2F	1	1	2
hsa-miR-32-5p	ITGAV	1	1	2
hsa-miR-3173-3p	ZNF318	1	1	2

Table SIV. Continued.

miRNA	Targets	TargetScan	mirDB	NumSum
hsa-miR-3613-5p	AKAP6	1	1	2
hsa-miR-454-3p	SULF1	1	1	2
hsa-miR-32-5p	CEP41	1	1	2
hsa-let-7d-5p	RPUSD2	1	1	2
hsa-miR-3196	CYP4F22	1	1	2
hsa-let-7d-5p	BZW2	1	1	2
hsa-miR-454-3p	SLC6A6	1	1	2
hsa-miR-1297	PMAIP1	1	1	2
hsa-miR-4436b-3p	SDC3	1	1	2
hsa-miR-3196	RNF157	1	1	2
hsa-miR-4436b-3p	PPP1R9B	1	1	2
hsa-miR-190a-5p	NLGN1	1	1	2
hsa-let-7f-5p	NAA30	1	1	2
hsa-let-7d-5p	XKR8	1	1	2
hsa-miR-130b-3p	WASL	1	1	2
hsa-miR-130b-3p	RASD1	1	1	2
hsa-miR-454-3p	SERINC3	1	1	2
hsa-miR-130b-3p	ARL6IP1	1	1	2
hsa-let-7i-5p	PXT1	1	1	2
hsa-miR-130b-3p	NPTN	1	1	2
hsa-miR-130b-3p	RUNX3	1	1	2
hsa-miR-454-3p	WASL	1	1	2
hsa-miR-18a-5p	IRF2	1	1	2
hsa-miR-4436b-3p	FAM53C	1	1	2
hsa-miR-454-3p	MMGT1	1	1	2
hsa-miR-32-5p	TACC2	1	1	2
hsa-miR-548ab	RAD54B	1	1	2
hsa-miR-32-5p	FNDC3B	1	1	2
hsa-miR-4436b-3p	SV2A	1	1	2
hsa-miR-454-3p	ARID4B	1	1	2
hsa-miR-130b-3p	ARHGAP12	1	1	2
hsa-miR-130b-3p	SH3D19	1	1	2
hsa-let-7i-5p	GALC	1	1	2
hsa-let-7f-5p	KLHL31	1	1	2
hsa-miR-3196	NKX3-2	1	1	2
hsa-miR-545-5p	STRADB	1	1	2
hsa-miR-4436b-3p	RASSF4	1	1	2
hsa-let-7f-5p	BZW1	1	1	2
hsa-let-7d-5p	STK40	1	1	2
hsa-let-7i-5p	RIOK3	1	1	2
hsa-miR-4436b-3p	GPR85	1	1	2
hsa-miR-548ab	EVI2A	1	1	2
hsa-miR-1297	TMEM106B	1	1	2
hsa-let-7i-5p	KCTD21	1	1	2
hsa-miR-3196	H2AFX	1	1	2
hsa-miR-4436b-3p	TRIM4	1	1	2
hsa-miR-3173-3p	FOXA1	1	1	2
hsa-miR-454-3p	ELK3	1	1	2
hsa-let-7f-5p	SLC5A6	1	1	2
hsa-miR-4436b-3p	NEURL1B	1	1	2
hsa-miR-920	FKBP1A	1	1	2
hsa-let-7d-5p	NDST2	1	1	2
hsa-let-7f-5p	TET3	1	1	2
hsa-miR-4436b-3p	GABRA4	1	1	2
hsa-miR-454-3p	MDM4	1	1	2
hsa-miR-32-5p	ITGA5	1	1	2

Table SIV. Continued.

miRNA	Targets	TargetScan	mirDB	NumSum
hsa-miR-4436b-3p	FNDC3B	1	1	2
hsa-miR-3613-5p	FAM192A	1	1	2
hsa-miR-454-3p	KIF13A	1	1	2
hsa-let-7i-5p	ADRB3	1	1	2
hsa-let-7f-5p	APBB3	1	1	2
hsa-miR-545-5p	ZFY	1	1	2
hsa-miR-454-3p	CBFB	1	1	2
hsa-let-7i-5p	TARBP2	1	1	2
hsa-miR-1297	GPR52	1	1	2
hsa-miR-454-3p	DDX6	1	1	2
hsa-let-7d-5p	PAPPA	1	1	2
hsa-let-7d-5p	TARBP2	1	1	2
hsa-miR-4436b-3p	COL5A3	1	1	2
hsa-let-7f-5p	KLHDC8B	1	1	2
hsa-miR-130b-3p	FAM46B	1	1	2
hsa-let-7f-5p	MFSD4	1	1	2
hsa-miR-130b-3p	SPOCK1	1	1	2
hsa-miR-3173-3p	HYAL4	1	1	2
hsa-miR-130b-3p	RTCA	1	1	2
hsa-let-7d-5p	DLST	1	1	2
hsa-miR-4436b-3p	ATG9A	1	1	2
hsa-miR-548ab	GPATCH11	1	1	2
hsa-miR-1297	ANKS1B	1	1	2
hsa-miR-130b-3p	RAP2C	1	1	2
hsa-miR-4436b-3p	FAM155B	1	1	2
hsa-miR-130b-3p	ADAM12	1	1	2
hsa-let-7d-5p	DDX19A	1	1	2
hsa-miR-454-3p	PTEN	1	1	2
hsa-let-7f-5p	PRPF38B	1	1	2
hsa-miR-920	APOM	1	1	2
hsa-miR-920	MAP3K2	1	1	2
hsa-let-7f-5p	IGDCC3	1	1	2
hsa-let-7i-5p	TMEM110	1	1	2
hsa-miR-143-5p	CASK	1	1	2
hsa-let-7i-5p	B3GNT7	1	1	2
hsa-miR-4463	RIPK4	1	1	2
hsa-miR-1297	ART3	1	1	2
hsa-miR-130b-3p	DGKE	1	1	2
hsa-miR-32-5p	RHPN2	1	1	2
hsa-miR-32-5p	BCL2L11	1	1	2
hsa-miR-454-3p	CD69	1	1	2
hsa-miR-4436b-3p	ITCH	1	1	2
hsa-miR-454-3p	MIER1	1	1	2
hsa-miR-4436b-3p	FBXO41	1	1	2
hsa-let-7i-5p	PLEKHA8	1	1	2
hsa-miR-32-5p	RPS6KA4	1	1	2
hsa-miR-1297	FAM98A	1	1	2
hsa-miR-32-5p	PCMTD1	1	1	2
hsa-miR-4436b-3p	VPS39	1	1	2
hsa-let-7d-5p	USP38	1	1	2
hsa-let-7d-5p	SMIM3	1	1	2
hsa-miR-130b-3p	APPL1	1	1	2
hsa-let-7i-5p	COIL	1	1	2
hsa-miR-130b-3p	KDM2A	1	1	2
hsa-let-7f-5p	ZNF275	1	1	2
hsa-let-7d-5p	IQCB1	1	1	2

Table SIV. Continued.

miRNA	Targets	TargetScan	mirDB	NumSum
hsa-miR-130b-3p	C5orf30	1	1	2
hsa-miR-4436b-3p	WIPF3	1	1	2
hsa-miR-4436b-3p	ZIC3	1	1	2
hsa-miR-130b-3p	LMLN	1	1	2
hsa-miR-454-3p	LONRF1	1	1	2
hsa-miR-143-5p	TAX1BP1	1	1	2
hsa-miR-18a-5p	ERI1	1	1	2
hsa-let-7d-5p	TGFBR3	1	1	2
hsa-miR-25-5p	SFTPB	1	1	2
hsa-let-7i-5p	ADAMTS15	1	1	2
hsa-miR-3196	PIP5K1C	1	1	2
hsa-miR-1297	ARPP19	1	1	2
hsa-miR-4436b-3p	LUZP1	1	1	2
hsa-miR-25-5p	RREB1	1	1	2
hsa-miR-454-3p	CHIC1	1	1	2
hsa-miR-1297	MAB21L1	1	1	2
hsa-miR-18a-5p	FBXL3	1	1	2
hsa-miR-454-3p	NRBF2	1	1	2
hsa-miR-545-5p	YBX3	1	1	2
hsa-miR-32-5p	PPP1R37	1	1	2
hsa-miR-545-5p	IKZF2	1	1	2
hsa-miR-3173-3p	MYH9	1	1	2
hsa-miR-32-5p	TCF21	1	1	2
hsa-miR-3613-5p	MPP4	1	1	2
hsa-let-7d-5p	NME6	1	1	2
hsa-miR-18a-5p	SUCO	1	1	2
hsa-let-7i-5p	PDPR	1	1	2
hsa-let-7f-5p	ATP8B4	1	1	2
hsa-let-7f-5p	TGFBR3	1	1	2
hsa-miR-18a-5p	CREBL2	1	1	2
hsa-miR-130b-3p	UBXN2B	1	1	2
hsa-let-7f-5p	ADAMTS15	1	1	2
hsa-let-7d-5p	PGRMC1	1	1	2
hsa-miR-3173-3p	MAG	1	1	2
hsa-miR-190a-5p	PTHLH	1	1	2
hsa-miR-143-5p	CRYBG3	1	1	2
hsa-let-7i-5p	KLHDC8B	1	1	2
hsa-miR-4436b-3p	FGF23	1	1	2
hsa-miR-32-5p	RGS17	1	1	2
hsa-miR-3173-3p	SEMA3F	1	1	2
hsa-let-7f-5p	SMC1A	1	1	2
hsa-miR-454-3p	JAKMIP1	1	1	2
hsa-miR-32-5p	GOLGA4	1	1	2
hsa-miR-454-3p	ZNF217	1	1	2
hsa-miR-4463	SLC9A4	1	1	2
hsa-let-7d-5p	B3GNT7	1	1	2
hsa-miR-548ab	TMEM135	1	1	2
hsa-let-7d-5p	RNF20	1	1	2
hsa-let-7d-5p	C15orf39	1	1	2
hsa-miR-130b-3p	SKIDA1	1	1	2
hsa-let-7f-5p	ADAMTS8	1	1	2
hsa-miR-130b-3p	PTEN	1	1	2
hsa-miR-454-3p	RAPGEF4	1	1	2
hsa-miR-454-3p	EMX2	1	1	2
hsa-miR-3196	BCAM	1	1	2
hsa-miR-130b-3p	FBXO48	1	1	2

Table SIV. Continued.

miRNA	Targets	TargetScan	mirDB	NumSum
hsa-miR-18a-5p	ADD3	1	1	2
hsa-miR-4436b-3p	PIANP	1	1	2
hsa-miR-548ab	AGTR1	1	1	2
hsa-miR-454-3p	EPC2	1	1	2
hsa-miR-18a-5p	ZCCHC3	1	1	2
hsa-miR-32-5p	RNF180	1	1	2
hsa-miR-130b-3p	SMARCD2	1	1	2
hsa-let-7f-5p	GNPTAB	1	1	2
hsa-let-7i-5p	ADAMTS8	1	1	2
hsa-miR-32-5p	HIPK3	1	1	2
hsa-miR-4436b-3p	ABHD12	1	1	2
hsa-miR-4436b-3p	ARL4C	1	1	2
hsa-miR-545-5p	SLC10A3	1	1	2
hsa-miR-454-3p	NPTN	1	1	2
hsa-miR-920	MGA	1	1	2
hsa-miR-545-5p	ANKRA2	1	1	2
hsa-miR-1297	POLR3G	1	1	2
hsa-miR-3173-3p	RNF24	1	1	2
hsa-miR-18a-5p	PDE4D	1	1	2
hsa-miR-32-5p	CIC	1	1	2
hsa-let-7f-5p	NXT2	1	1	2
hsa-miR-190a-5p	C15orf41	1	1	2
hsa-let-7f-5p	RDX	1	1	2
hsa-let-7i-5p	CCL7	1	1	2
hsa-miR-130b-3p	CLIP1	1	1	2
hsa-miR-1297	STRBP	1	1	2
hsa-let-7d-5p	TMEM110	1	1	2
hsa-miR-130b-3p	SBF2	1	1	2
hsa-miR-548ab	ME1	1	1	2
hsa-let-7d-5p	COL4A6	1	1	2
hsa-miR-32-5p	UGP2	1	1	2
hsa-let-7i-5p	E2F5	1	1	2
hsa-miR-32-5p	SNAPC1	1	1	2
hsa-miR-548ab	NOTUM	1	1	2
hsa-miR-454-3p	MDFIC	1	1	2
hsa-miR-4436b-3p	SH3GL2	1	1	2
hsa-miR-4463	RPE	1	1	2
hsa-miR-920	SH2D2A	1	1	2
hsa-miR-3173-3p	TMEM9	1	1	2
hsa-miR-3173-3p	GRM2	1	1	2
hsa-let-7f-5p	IQCB1	1	1	2
hsa-miR-454-3p	ZFPM2	1	1	2
hsa-let-7f-5p	FRMD4B	1	1	2
hsa-miR-32-5p	TAGAP	1	1	2
hsa-let-7f-5p	COIL	1	1	2
hsa-let-7i-5p	NYNRIN	1	1	2
hsa-miR-32-5p	WWP2	1	1	2
hsa-let-7d-5p	C5orf51	1	1	2
hsa-miR-545-5p	UPRT	1	1	2
hsa-miR-3196	FAM43B	1	1	2
hsa-miR-454-3p	FIBIN	1	1	2
hsa-miR-545-5p	EPM2AIP1	1	1	2
hsa-let-7d-5p	PALD1	1	1	2
hsa-miR-130b-3p	GJA1	1	1	2
hsa-miR-4436b-3p	ARL6IP1	1	1	2
hsa-miR-32-5p	CLDN11	1	1	2

Table SIV. Continued.

miRNA	Targets	TargetScan	mirDB	NumSum
hsa-miR-3173-3p	SNAP23	1	1	2
hsa-miR-3173-3p	LINGO1	1	1	2
hsa-miR-143-5p	EOGT	1	1	2
hsa-miR-454-3p	PAK6	1	1	2
hsa-miR-130b-3p	NPAT	1	1	2
hsa-let-7i-5p	IGF1R	1	1	2
hsa-let-7i-5p	ZFYVE26	1	1	2
hsa-miR-130b-3p	ARAP2	1	1	2
hsa-let-7f-5p	IGF2BP3	1	1	2
hsa-miR-3196	SLC25A1	1	1	2
hsa-miR-143-5p	HBS1L	1	1	2
hsa-miR-4436b-3p	HNRNPR	1	1	2
hsa-miR-132-5p	CRTC1	1	1	2
hsa-miR-18a-5p	TMEM2	1	1	2
hsa-miR-130b-3p	EPS15	1	1	2
hsa-miR-454-3p	SLC8A1	1	1	2
hsa-miR-4436b-3p	PPP6C	1	1	2
hsa-miR-1297	SMAD1	1	1	2
hsa-miR-130b-3p	SPG20	1	1	2
hsa-miR-143-5p	HAS3	1	1	2
hsa-let-7i-5p	ESPL1	1	1	2
hsa-let-7d-5p	NXT2	1	1	2
hsa-miR-3196	RGMA	1	1	2
hsa-miR-18a-5p	BBX	1	1	2
hsa-miR-130b-3p	RNF38	1	1	2
hsa-miR-130b-3p	TMEM55A	1	1	2
hsa-miR-4463	GNAO1	1	1	2
hsa-miR-3196	SCRT1	1	1	2
hsa-miR-454-3p	HIVEP2	1	1	2
hsa-miR-545-5p	NKRF	1	1	2
hsa-let-7i-5p	GXYLT1	1	1	2
hsa-miR-4463	REG1A	1	1	2
hsa-miR-454-3p	PTPRG	1	1	2
hsa-miR-454-3p	PEX5L	1	1	2
hsa-miR-454-3p	UBE3B	1	1	2
hsa-miR-454-3p	MSMO1	1	1	2
hsa-miR-143-5p	FAM81A	1	1	2
hsa-let-7f-5p	NDST2	1	1	2
hsa-miR-32-5p	DNAJB9	1	1	2
hsa-miR-920	VAMP1	1	1	2
hsa-let-7d-5p	PRPF38B	1	1	2
hsa-miR-4436b-3p	GRM2	1	1	2
hsa-miR-130b-3p	EPC2	1	1	2
hsa-miR-4463	OAS2	1	1	2
hsa-miR-454-3p	APCDD1	1	1	2
hsa-miR-4436b-3p	FAM214B	1	1	2
hsa-let-7d-5p	NAA30	1	1	2
hsa-miR-130b-3p	ATG16L1	1	1	2
hsa-miR-545-5p	C8orf4	1	1	2
hsa-let-7i-5p	PARD6B	1	1	2
hsa-miR-32-5p	FNIP1	1	1	2
hsa-miR-4436b-3p	CIC	1	1	2
hsa-let-7f-5p	SCN4B	1	1	2
hsa-miR-130b-3p	VPS37A	1	1	2
hsa-miR-130b-3p	PLAA	1	1	2
hsa-miR-4436b-3p	ADIPOR2	1	1	2

Table SIV. Continued.

miRNA	Targets	TargetScan	mirDB	NumSum
hsa-let-7i-5p	CCNJ	1	1	2
hsa-let-7i-5p	TMPPE	1	1	2
hsa-let-7f-5p	XKR8	1	1	2
hsa-let-7d-5p	PRRX1	1	1	2
hsa-miR-1297	PALM3	1	1	2
hsa-miR-4436b-3p	RALYL	1	1	2
hsa-miR-454-3p	RTCA	1	1	2
hsa-let-7f-5p	RAB11FIP4	1	1	2
hsa-miR-130b-3p	NHLH2	1	1	2
hsa-miR-3173-3p	TBC1D10A	1	1	2
hsa-miR-130b-3p	NPEPL1	1	1	2
hsa-miR-3196	OTUD6A	1	1	2
hsa-miR-4436b-3p	LINGO1	1	1	2
hsa-miR-130b-3p	PTPRG	1	1	2
hsa-miR-3613-5p	RERGL	1	1	2
hsa-miR-32-5p	TGIF1	1	1	2
hsa-miR-454-3p	TMEM55A	1	1	2
hsa-miR-4436b-3p	AURKA	1	1	2
hsa-let-7d-5p	ACVR1C	1	1	2
hsa-let-7i-5p	APBB3	1	1	2
hsa-miR-130b-3p	PXK	1	1	2
hsa-miR-548ab	SRSF3	1	1	2
hsa-miR-548ab	PROK2	1	1	2
hsa-miR-3173-3p	MAMSTR	1	1	2
hsa-miR-32-5p	GLRA1	1	1	2
hsa-miR-3173-3p	FAM134C	1	1	2
hsa-miR-4436b-3p	ORAI3	1	1	2
hsa-miR-143-5p	EMC2	1	1	2
hsa-let-7f-5p	RRM2	1	1	2
hsa-miR-3613-5p	DCTN2	1	1	2
hsa-miR-454-3p	PXK	1	1	2
hsa-miR-454-3p	RTN1	1	1	2
hsa-miR-4436b-3p	LBH	1	1	2
hsa-miR-4436b-3p	MAPKAPK2	1	1	2
hsa-let-7f-5p	CEP135	1	1	2
hsa-let-7i-5p	NAA30	1	1	2
hsa-miR-454-3p	TSC1	1	1	2
hsa-miR-1297	BOD1	1	1	2
hsa-miR-18a-5p	PHF19	1	1	2
hsa-miR-3173-3p	ZBPB2	1	1	2
hsa-miR-3196	ATP6V0C	1	1	2
hsa-miR-454-3p	JARID2	1	1	2
hsa-miR-143-5p	THY1	1	1	2
hsa-let-7f-5p	PGRMC1	1	1	2
hsa-miR-32-5p	NSMF	1	1	2
hsa-let-7f-5p	HMGA1	1	1	2
hsa-let-7f-5p	DDX19A	1	1	2
hsa-miR-143-5p	C12orf4	1	1	2
hsa-miR-545-5p	LYRM5	1	1	2
hsa-miR-548ab	C5orf24	1	1	2
hsa-let-7i-5p	DDX26B	1	1	2
hsa-miR-18a-5p	CRIM1	1	1	2
hsa-miR-4436b-3p	EFNB3	1	1	2
hsa-miR-454-3p	NAA30	1	1	2
hsa-let-7f-5p	RNF20	1	1	2
hsa-let-7f-5p	MAP4K3	1	1	2

Table SIV. Continued.

miRNA	Targets	TargetScan	mirDB	NumSum
hsa-miR-3613-5p	HEATR5A	1	1	2
hsa-let-7i-5p	SCD	1	1	2
hsa-miR-130b-3p	BRWD1	1	1	2
hsa-miR-548ab	REEP3	1	1	2
hsa-miR-454-3p	RBBP8	1	1	2
hsa-let-7d-5p	PLXNC1	1	1	2
hsa-miR-454-3p	HOXA3	1	1	2
hsa-miR-920	TET1	1	1	2
hsa-let-7d-5p	SLC25A27	1	1	2
hsa-let-7d-5p	IGF2BP3	1	1	2
hsa-miR-4436b-3p	C14orf1	1	1	2
hsa-let-7d-5p	RALB	1	1	2
hsa-miR-1297	WBSR16	1	1	2
hsa-miR-130b-3p	TRPC3	1	1	2
hsa-let-7d-5p	FZD3	1	1	2
hsa-miR-3196	TLX3	1	1	2
hsa-let-7f-5p	ARG2	1	1	2
hsa-miR-3173-3p	G6PC	1	1	2
hsa-miR-454-3p	ST18	1	1	2
hsa-let-7f-5p	NHLRC3	1	1	2
hsa-miR-4463	TMEM203	1	1	2
hsa-let-7i-5p	ZNF512B	1	1	2
hsa-miR-3196	GRB10	1	1	2
hsa-miR-4463	VAMP7	1	1	2
hsa-let-7f-5p	ZBTB8B	1	1	2
hsa-miR-454-3p	NPEPL1	1	1	2
hsa-miR-454-3p	PRKAA1	1	1	2
hsa-let-7i-5p	HAND1	1	1	2
hsa-miR-4463	ANKRD22	1	1	2
hsa-miR-454-3p	CPEB3	1	1	2
hsa-miR-920	HIC1	1	1	2
hsa-miR-32-5p	MORC3	1	1	2
hsa-miR-454-3p	LDLR	1	1	2
hsa-let-7d-5p	ADRB2	1	1	2
hsa-miR-130b-3p	MDFIC	1	1	2
hsa-miR-32-5p	USP45	1	1	2
hsa-let-7i-5p	C15orf41	1	1	2
hsa-miR-4463	GABRB1	1	1	2
hsa-let-7i-5p	MAP4K3	1	1	2
hsa-miR-3196	PPFIA3	1	1	2
hsa-let-7i-5p	ATP8B4	1	1	2
hsa-miR-3173-3p	ZC4H2	1	1	2
hsa-miR-130b-3p	MMGT1	1	1	2
hsa-miR-32-5p	KBTBD8	1	1	2
hsa-miR-190a-5p	PHLPP1	1	1	2
hsa-miR-454-3p	NHLH2	1	1	2
hsa-miR-4436b-3p	RGMB	1	1	2
hsa-miR-545-5p	CNOT8	1	1	2
hsa-miR-3173-3p	OXSRI	1	1	2
hsa-let-7i-5p	BZW2	1	1	2
hsa-miR-3173-3p	TRIM67	1	1	2
hsa-miR-545-5p	NDUFA12	1	1	2
hsa-miR-4436b-3p	LDLRAP1	1	1	2
hsa-miR-454-3p	FAM19A1	1	1	2
hsa-let-7d-5p	TMEM2	1	1	2
hsa-miR-4436b-3p	AK3	1	1	2

Table SIV. Continued.

miRNA	Targets	TargetScan	mirDB	NumSum
hsa-miR-548ab	RALA	1	1	2
hsa-let-7f-5p	RPUSD2	1	1	2
hsa-miR-920	CPLX2	1	1	2
hsa-let-7i-5p	NGF	1	1	2
hsa-miR-454-3p	CPEB1	1	1	2
hsa-miR-1297	SNN	1	1	2
hsa-miR-4436b-3p	NAMPT	1	1	2
hsa-miR-3173-3p	VAMP1	1	1	2
hsa-let-7d-5p	LIN28B	1	1	2
hsa-miR-4463	YPEL4	1	1	2
hsa-let-7d-5p	LBR	1	1	2
hsa-let-7d-5p	ACER2	1	1	2
hsa-miR-454-3p	RAB9B	1	1	2
hsa-miR-3196	FBXL16	1	1	2
hsa-miR-32-5p	APPL1	1	1	2
hsa-let-7i-5p	RAB11FIP4	1	1	2
hsa-miR-3173-3p	RTF1	1	1	2
hsa-miR-454-3p	TROVE2	1	1	2
hsa-let-7i-5p	FNIP1	1	1	2
hsa-miR-130b-3p	RRAGD	1	1	2
hsa-miR-1297	CCDC28A	1	1	2
hsa-miR-130b-3p	ST18	1	1	2
hsa-miR-32-5p	LHFPL2	1	1	2
hsa-miR-548ab	RNF149	1	1	2
hsa-let-7i-5p	SLC25A27	1	1	2
hsa-miR-1297	HMGA1	1	1	2
hsa-miR-32-5p	FAM150B	1	1	2
hsa-miR-1297	NAPIL5	1	1	2
hsa-miR-3196	SPATA33	1	1	2
hsa-let-7f-5p	ARHGAP28	1	1	2
hsa-miR-130b-3p	ACBD5	1	1	2
hsa-miR-454-3p	ZMAT3	1	1	2
hsa-miR-130b-3p	MEOX2	1	1	2
hsa-miR-32-5p	GOLGA8A	1	1	2
hsa-miR-4463	DDX55	1	1	2
hsa-miR-4436b-3p	MPZ	1	1	2
hsa-miR-190a-5p	BACH2	1	1	2
hsa-miR-130b-3p	HBPI	1	1	2
hsa-miR-18a-5p	FCHSD2	1	1	2
hsa-miR-454-3p	RRAGD	1	1	2
hsa-miR-545-5p	MRPS30	1	1	2
hsa-miR-3173-3p	RAB8A	1	1	2
hsa-let-7i-5p	TGFBR3	1	1	2
hsa-miR-32-5p	RAD21	1	1	2
hsa-miR-4436b-3p	TRIM26	1	1	2
hsa-miR-143-5p	ZNF626	1	1	2
hsa-miR-3173-3p	ABCG4	1	1	2
hsa-miR-32-5p	PLEKHA1	1	1	2
hsa-miR-4436b-3p	CCDC114	1	1	2
hsa-miR-454-3p	LONRF3	1	1	2
hsa-miR-3173-3p	PPP1R16B	1	1	2
hsa-miR-32-5p	ZFYVE21	1	1	2
hsa-let-7f-5p	PDPR	1	1	2
hsa-let-7i-5p	AKAP6	1	1	2
hsa-let-7i-5p	DDX19B	1	1	2
hsa-let-7f-5p	KLHL23	1	1	2

Table SIV. Continued.

miRNA	Targets	TargetScan	mirDB	NumSum
hsa-miR-18a-5p	DAAM2	1	1	2
hsa-miR-143-5p	HIF1A	1	1	2
hsa-miR-32-5p	ELOVL4	1	1	2
hsa-miR-130b-3p	ZFPM2	1	1	2
hsa-let-7i-5p	LIPH	1	1	2
hsa-miR-3196	OLIG1	1	1	2
hsa-miR-1297	ZDHHC20	1	1	2
hsa-let-7f-5p	DDX19B	1	1	2
hsa-let-7d-5p	NYNRIN	1	1	2
hsa-let-7i-5p	HIC2	1	1	2
hsa-miR-4436b-3p	TRIM46	1	1	2
hsa-miR-920	TMEM198	1	1	2
hsa-miR-1297	FRAT2	1	1	2
hsa-let-7i-5p	ACVR1C	1	1	2
hsa-let-7d-5p	ZNF275	1	1	2
hsa-miR-18a-5p	MAP3K1	1	1	2
hsa-miR-3196	SPRY4	1	1	2
hsa-miR-454-3p	RPS6KA5	1	1	2
hsa-miR-454-3p	TRPC3	1	1	2
hsa-miR-4436b-3p	AGAP3	1	1	2
hsa-miR-130b-3p	STK33	1	1	2
hsa-let-7f-5p	ACER2	1	1	2
hsa-miR-454-3p	SPOCK1	1	1	2
hsa-let-7d-5p	LRIG3	1	1	2
hsa-miR-1297	GMDS	1	1	2
hsa-let-7d-5p	DDI2	1	1	2
hsa-miR-18a-5p	HSF5	1	1	2
hsa-miR-454-3p	PAN3	1	1	2
hsa-let-7f-5p	BEGAIN	1	1	2
hsa-miR-4436b-3p	PATZ1	1	1	2
hsa-miR-454-3p	PPARG	1	1	2
hsa-let-7d-5p	ESPL1	1	1	2
hsa-let-7i-5p	ACER2	1	1	2
hsa-let-7d-5p	ADAMTS8	1	1	2
hsa-miR-4463	VAMP1	1	1	2
hsa-miR-18a-5p	PARD6B	1	1	2
hsa-miR-4436b-3p	NAB2	1	1	2
hsa-miR-32-5p	LATS2	1	1	2
hsa-miR-1297	CHORDC1	1	1	2
hsa-let-7d-5p	NR6A1	1	1	2
hsa-let-7i-5p	CPA4	1	1	2
hsa-let-7f-5p	NME6	1	1	2
hsa-miR-32-5p	GPR180	1	1	2
hsa-miR-454-3p	SNX2	1	1	2
hsa-miR-1297	RHOQ	1	1	2
hsa-miR-130b-3p	PIK3CB	1	1	2
hsa-let-7d-5p	PBX1	1	1	2
hsa-miR-548ab	UBE2A	1	1	2
hsa-miR-3173-3p	LPHN1	1	1	2
hsa-miR-454-3p	RNF38	1	1	2
hsa-miR-454-3p	CDK19	1	1	2
hsa-miR-3173-3p	SCD	1	1	2
hsa-miR-454-3p	GAREM	1	1	2
hsa-miR-3196	BEGAIN	1	1	2
hsa-let-7d-5p	GRPEL2	1	1	2
hsa-miR-32-5p	SESN3	1	1	2

Table SIV. Continued.

miRNA	Targets	TargetScan	mirDB	NumSum
hsa-miR-32-5p	MYLIP	1	1	2
hsa-miR-130b-3p	PPP1R15B	1	1	2
hsa-let-7d-5p	MAPK6	1	1	2
hsa-miR-920	FOXP4	1	1	2
hsa-miR-1297	SRP19	1	1	2
hsa-miR-3613-5p	CADM2	1	1	2
hsa-miR-454-3p	IER3IP1	1	1	2
hsa-miR-4436b-3p	CSF1R	1	1	2
hsa-miR-4436b-3p	WDC1	1	1	2
hsa-miR-548ab	C1orf168	1	1	2
hsa-let-7d-5p	COIL	1	1	2
hsa-miR-454-3p	ABHD3	1	1	2
hsa-miR-454-3p	SLC35D1	1	1	2
hsa-miR-1297	ASPN	1	1	2
hsa-miR-920	MYCT1	1	1	2
hsa-miR-25-5p	SP8	1	1	2
hsa-miR-4436b-3p	GDNF	1	1	2
hsa-miR-32-5p	FRY	1	1	2
hsa-miR-32-5p	PPP1R12C	1	1	2
hsa-miR-3173-3p	FBP1	1	1	2
hsa-miR-32-5p	PTEN	1	1	2
hsa-miR-32-5p	TMEM229A	1	1	2
hsa-miR-190a-5p	RBAK	1	1	2
hsa-miR-3173-3p	HEXIM1	1	1	2
hsa-let-7f-5p	RASGRP1	1	1	2
hsa-miR-454-3p	HBP1	1	1	2
hsa-miR-32-5p	TEF	1	1	2
hsa-miR-130b-3p	SMOC1	1	1	2
hsa-miR-1297	ATF2	1	1	2
hsa-miR-32-5p	ZDHHC5	1	1	2
hsa-let-7i-5p	ZNF275	1	1	2
hsa-miR-4436b-3p	PGS1	1	1	2
hsa-miR-32-5p	TMF1	1	1	2
hsa-miR-1297	CDC6	1	1	2
hsa-miR-454-3p	RFX7	1	1	2
hsa-miR-545-5p	SC5D	1	1	2
hsa-let-7i-5p	COL24A1	1	1	2
hsa-miR-454-3p	MYBL1	1	1	2
hsa-miR-4463	PLEKHB1	1	1	2
hsa-miR-4436b-3p	DCP1A	1	1	2
hsa-miR-454-3p	SOC5	1	1	2
hsa-miR-4436b-3p	STK19	1	1	2
hsa-miR-4463	RPP14	1	1	2
hsa-let-7f-5p	FIGN	1	1	2
hsa-miR-3173-3p	DNAJC27	1	1	2
hsa-miR-4436b-3p	SLC6A9	1	1	2
hsa-miR-130b-3p	ARX	1	1	2
hsa-miR-4436b-3p	GLIS2	1	1	2
hsa-miR-18a-5p	PHF2	1	1	2
hsa-miR-3613-5p	MEMO1	1	1	2
hsa-let-7i-5p	PPP1R15B	1	1	2
hsa-let-7i-5p	FNDC3A	1	1	2
hsa-miR-130b-3p	KIAA1468	1	1	2
hsa-let-7i-5p	DPF2	1	1	2
hsa-miR-1297	ZNF410	1	1	2
hsa-miR-130b-3p	SECISBP2L	1	1	2

Table SIV. Continued.

miRNA	Targets	TargetScan	mirDB	NumSum
hsa-let-7d-5p	GPR26	1	1	2
hsa-miR-3613-5p	ATP5J	1	1	2
hsa-let-7d-5p	SLC20A1	1	1	2
hsa-let-7d-5p	RSPO2	1	1	2
hsa-miR-130b-3p	SULF1	1	1	2
hsa-miR-32-5p	DUSP10	1	1	2
hsa-miR-32-5p	KLHL14	1	1	2
hsa-miR-130b-3p	CLCN5	1	1	2
hsa-let-7i-5p	MXD1	1	1	2
hsa-miR-132-5p	DUSP7	1	1	2
hsa-let-7d-5p	APBB3	1	1	2
hsa-miR-18a-5p	MAPK4	1	1	2
hsa-miR-545-5p	MORC3	1	1	2
hsa-miR-190a-5p	TNRC6A	1	1	2
hsa-miR-1297	OSBPL11	1	1	2
hsa-let-7i-5p	LIMD2	1	1	2
hsa-let-7f-5p	PRRX1	1	1	2
hsa-miR-4436b-3p	XYLT1	1	1	2
hsa-let-7f-5p	PCGF3	1	1	2
hsa-miR-32-5p	IQGAP2	1	1	2
hsa-let-7i-5p	LBR	1	1	2
hsa-let-7d-5p	LIPT2	1	1	2
hsa-miR-130b-3p	ZBTB4	1	1	2
hsa-miR-32-5p	KIAA1432	1	1	2
hsa-miR-18a-5p	FRYL	1	1	2
hsa-let-7f-5p	C5orf51	1	1	2
hsa-miR-4436b-3p	KCNIP1	1	1	2
hsa-let-7f-5p	FNDC3A	1	1	2
hsa-let-7d-5p	SMARCAD1	1	1	2
hsa-miR-130b-3p	ENPP5	1	1	2
hsa-let-7f-5p	THRSP	1	1	2
hsa-let-7d-5p	ARHGAP28	1	1	2
hsa-let-7i-5p	NHLRC3	1	1	2
hsa-miR-190a-5p	HCN1	1	1	2
hsa-miR-32-5p	SGPP1	1	1	2
hsa-miR-18a-5p	NEDD4	1	1	2
hsa-miR-3196	NEUROG1	1	1	2
hsa-let-7i-5p	ADRB2	1	1	2
hsa-miR-454-3p	MBNL1	1	1	2
hsa-miR-4463	CCDC86	1	1	2
hsa-miR-454-3p	BTAFL	1	1	2
hsa-let-7i-5p	CPEB1	1	1	2
hsa-miR-3196	THTPA	1	1	2
hsa-let-7f-5p	AMT	1	1	2
hsa-let-7f-5p	E2F5	1	1	2
hsa-let-7d-5p	ATP8B4	1	1	2
hsa-miR-143-5p	DIRC2	1	1	2
hsa-miR-130b-3p	ZNF217	1	1	2
hsa-miR-4436b-3p	ST3GAL5	1	1	2
hsa-miR-1297	CREBZF	1	1	2
hsa-let-7i-5p	CLP1	1	1	2
hsa-miR-18a-5p	PRDM6	1	1	2
hsa-let-7d-5p	PLEKHA8	1	1	2
hsa-miR-4436b-3p	WASF2	1	1	2
hsa-miR-4463	TSPAN1	1	1	2
hsa-miR-454-3p	LMLN	1	1	2

Table SIV. Continued.

miRNA	Targets	TargetScan	mirDB	NumSum
hsa-miR-454-3p	PIK3CB	1	1	2
hsa-let-7f-5p	CCL7	1	1	2
hsa-miR-4436b-3p	C9orf84	1	1	2
hsa-miR-454-3p	POU4F1	1	1	2
hsa-let-7d-5p	PDPR	1	1	2
hsa-miR-143-5p	ISL1	1	1	2
hsa-miR-130b-3p	TRIM37	1	1	2
hsa-miR-1297	SLC25A16	1	1	2
hsa-miR-3173-3p	HIVEP1	1	1	2
hsa-miR-454-3p	C16orf70	1	1	2
hsa-miR-4463	XKR9	1	1	2
hsa-miR-548ab	ZRANB2	1	1	2
hsa-miR-3173-3p	YWHAE	1	1	2
hsa-let-7i-5p	TGFBF1	1	1	2
hsa-miR-32-5p	FMR1	1	1	2
hsa-let-7i-5p	PLXNC1	1	1	2
hsa-miR-130b-3p	FAM19A1	1	1	2
hsa-miR-920	WDTC1	1	1	2
hsa-let-7d-5p	C8orf58	1	1	2
hsa-let-7d-5p	STX3	1	1	2
hsa-miR-18a-5p	RAB5C	1	1	2
hsa-let-7i-5p	CLDN12	1	1	2
hsa-let-7f-5p	KCTD21	1	1	2
hsa-miR-32-5p	MTMR9	1	1	2
hsa-miR-454-3p	SMOC2	1	1	2
hsa-let-7i-5p	CASP3	1	1	2
hsa-miR-25-5p	POU3F1	1	1	2
hsa-miR-454-3p	LRP8	1	1	2
hsa-let-7i-5p	FZD3	1	1	2
hsa-miR-32-5p	ST6GAL2	1	1	2
hsa-miR-4436b-3p	HMG20A	1	1	2
hsa-miR-454-3p	WDFY3	1	1	2
hsa-let-7d-5p	GNG5	1	1	2
hsa-let-7d-5p	GATM	1	1	2
hsa-miR-32-5p	COL1A2	1	1	2
hsa-miR-18a-5p	TNFAIP3	1	1	2
hsa-miR-18a-5p	TBPL1	1	1	2
hsa-let-7f-5p	SLC20A1	1	1	2
hsa-miR-4436b-3p	SLC31A2	1	1	2
hsa-miR-4436b-3p	RTKN	1	1	2
hsa-miR-32-5p	ANKRD44	1	1	2
hsa-miR-548ab	SRP9	1	1	2
hsa-miR-1297	STK39	1	1	2
hsa-let-7f-5p	RALB	1	1	2
hsa-miR-4436b-3p	TBC1D13	1	1	2
hsa-miR-32-5p	MPP1	1	1	2
hsa-miR-454-3p	SLC44A1	1	1	2
hsa-miR-18a-5p	KLHL20	1	1	2
hsa-let-7f-5p	SMIM3	1	1	2
hsa-miR-545-5p	CSDE1	1	1	2
hsa-miR-32-5p	CCNC	1	1	2
hsa-miR-32-5p	WASL	1	1	2
hsa-let-7i-5p	KLHL31	1	1	2
hsa-miR-4436b-3p	HTRA3	1	1	2
hsa-miR-130b-3p	TSC1	1	1	2
hsa-miR-454-3p	HS3ST5	1	1	2

Table SIV. Continued.

miRNA	Targets	TargetScan	mirDB	NumSum
hsa-let-7f-5p	SKIL	1	1	2
hsa-miR-548ab	NTF3	1	1	2
hsa-miR-32-5p	PAPD7	1	1	2
hsa-miR-454-3p	LRIG1	1	1	2
hsa-let-7i-5p	YOD1	1	1	2
hsa-miR-3173-3p	C11orf91	1	1	2
hsa-miR-3196	CDHR1	1	1	2
hsa-miR-4436b-3p	NOTCH2	1	1	2
hsa-miR-3196	SLITRK5	1	1	2
hsa-miR-545-5p	PHAX	1	1	2
hsa-miR-4436b-3p	RD3	1	1	2
hsa-miR-3173-3p	CBLN3	1	1	2
hsa-miR-454-3p	BMPR2	1	1	2
hsa-miR-3613-5p	GATA2	1	1	2
hsa-let-7d-5p	GLRX	1	1	2
hsa-let-7f-5p	PPP1R15B	1	1	2
hsa-miR-130b-3p	DLL1	1	1	2
hsa-miR-3196	HOXC11	1	1	2
hsa-miR-1297	DDX52	1	1	2
hsa-let-7i-5p	LIN28B	1	1	2
hsa-let-7f-5p	ESPL1	1	1	2
hsa-let-7d-5p	IGF1R	1	1	2
hsa-let-7f-5p	C15orf41	1	1	2
hsa-miR-32-5p	NEFM	1	1	2
hsa-miR-18a-5p	ZNF367	1	1	2
hsa-let-7d-5p	DDX26B	1	1	2
hsa-let-7f-5p	MED8	1	1	2
hsa-miR-3173-3p	PPP6C	1	1	2
hsa-let-7d-5p	KCTD21	1	1	2
hsa-miR-4436b-3p	NRIP2	1	1	2
hsa-miR-454-3p	SYT6	1	1	2
hsa-miR-545-5p	CCDC71L	1	1	2
hsa-miR-190a-5p	SAMD4A	1	1	2
hsa-miR-4436b-3p	HAP1	1	1	2
hsa-miR-4463	C1orf122	1	1	2
hsa-miR-3173-3p	AIM1	1	1	2
hsa-miR-545-5p	FAM221A	1	1	2
hsa-let-7i-5p	GATM	1	1	2
hsa-miR-454-3p	AGFG1	1	1	2
hsa-miR-454-3p	RNF145	1	1	2
hsa-miR-920	ATPAF1	1	1	2
hsa-miR-32-5p	AIDA	1	1	2
hsa-miR-1297	CHAC1	1	1	2
hsa-miR-454-3p	WDR47	1	1	2
hsa-miR-454-3p	CNOT7	1	1	2
hsa-miR-545-5p	GNPNAT1	1	1	2
hsa-miR-1297	REEP3	1	1	2
hsa-miR-920	LAMTOR3	1	1	2
hsa-miR-32-5p	PER2	1	1	2
hsa-miR-3196	FOXP4	1	1	2
hsa-miR-3196	ZNF385A	1	1	2
hsa-let-7d-5p	THRSP	1	1	2
hsa-miR-920	GINS2	1	1	2
hsa-miR-18a-5p	HMBOX1	1	1	2
hsa-miR-130b-3p	IMPDH1	1	1	2
hsa-miR-4436b-3p	MAML1	1	1	2

Table SIV. Continued.

miRNA	Targets	TargetScan	mirDB	NumSum
hsa-let-7d-5p	ZNF583	1	1	2
hsa-let-7i-5p	LRIG2	1	1	2
hsa-miR-4436b-3p	HJURP	1	1	2
hsa-miR-545-5p	CAPZA1	1	1	2
hsa-miR-454-3p	BBX	1	1	2
hsa-miR-130b-3p	MEMO1	1	1	2
hsa-let-7d-5p	TGFBR1	1	1	2
hsa-miR-4436b-3p	KIF21B	1	1	2
hsa-miR-18a-5p	PTGFRN	1	1	2
hsa-let-7f-5p	TMEM110	1	1	2
hsa-miR-143-5p	TCTA	1	1	2
hsa-miR-454-3p	MYT1L	1	1	2
hsa-miR-32-5p	SNN	1	1	2
hsa-miR-3173-3p	ZBTB7A	1	1	2
hsa-miR-130b-3p	NAA30	1	1	2
hsa-miR-4436b-3p	HLA-DOB	1	1	2
hsa-miR-130b-3p	CCDC126	1	1	2
hsa-miR-32-5p	SOSTDC1	1	1	2
hsa-miR-4436b-3p	PIGY	1	1	2
hsa-miR-4436b-3p	ANKRA2	1	1	2
hsa-let-7i-5p	C15orf39	1	1	2
hsa-miR-130b-3p	SOS2	1	1	2
hsa-miR-190a-5p	NEUROD1	1	1	2
hsa-miR-130b-3p	DYNLL2	1	1	2
hsa-let-7i-5p	TMEM2	1	1	2
hsa-let-7d-5p	ARG2	1	1	2
hsa-miR-130b-3p	SYBU	1	1	2
hsa-miR-454-3p	RASD1	1	1	2
hsa-miR-130b-3p	TMEM170B	1	1	2
hsa-miR-32-5p	C21orf91	1	1	2
hsa-let-7f-5p	HAND1	1	1	2
hsa-miR-3196	TRIM48	1	1	2
hsa-miR-545-5p	SDCBP	1	1	2
hsa-let-7i-5p	RSPO2	1	1	2
hsa-let-7f-5p	TTL4	1	1	2
hsa-miR-3196	OTP	1	1	2
hsa-let-7d-5p	GAS7	1	1	2
hsa-let-7f-5p	C8orf58	1	1	2
hsa-let-7f-5p	STK40	1	1	2
hsa-miR-132-5p	IRX2	1	1	2
hsa-let-7f-5p	PPAPDC2	1	1	2
hsa-miR-3173-3p	CLUL1	1	1	2
hsa-let-7d-5p	UTRN	1	1	2
hsa-let-7d-5p	PPP1R15B	1	1	2
hsa-let-7d-5p	GCNT4	1	1	2
hsa-miR-130b-3p	EMX2	1	1	2
hsa-miR-545-5p	UFM1	1	1	2
hsa-let-7d-5p	BIN3	1	1	2
hsa-miR-4436b-3p	SOX13	1	1	2
hsa-let-7d-5p	FOXP2	1	1	2
hsa-miR-920	PLK3	1	1	2
hsa-miR-454-3p	ARAP2	1	1	2
hsa-let-7f-5p	EDN1	1	1	2
hsa-miR-454-3p	SOS2	1	1	2
hsa-miR-3173-3p	UBE2Q1	1	1	2
hsa-miR-32-5p	PHTF2	1	1	2

Table SIV. Continued.

miRNA	Targets	TargetScan	mirDB	NumSum
hsa-miR-548ab	C3orf58	1	1	2
hsa-miR-4436b-3p	ADAM10	1	1	2
hsa-miR-32-5p	ITGA6	1	1	2
hsa-miR-545-5p	SLC35D3	1	1	2
hsa-miR-130b-3p	MDM4	1	1	2
hsa-let-7f-5p	PLEKHA8	1	1	2
hsa-let-7i-5p	GRPEL2	1	1	2
hsa-let-7i-5p	GNPTAB	1	1	2
hsa-miR-32-5p	GRAMD3	1	1	2
hsa-let-7d-5p	CASP3	1	1	2
hsa-miR-32-5p	PDE10A	1	1	2
hsa-miR-4436b-3p	ZNF862	1	1	2
hsa-miR-454-3p	ACBD5	1	1	2
hsa-let-7f-5p	TMEM2	1	1	2
hsa-miR-130b-3p	YTHDF2	1	1	2
hsa-let-7i-5p	PALD1	1	1	2
hsa-let-7f-5p	ARRDC4	1	1	2
hsa-miR-454-3p	FAM73A	1	1	2
hsa-miR-4436b-3p	DDI2	1	1	2
hsa-miR-143-5p	WBP11	1	1	2
hsa-miR-1297	LRRC2	1	1	2
hsa-miR-4463	ZSCAN21	1	1	2
hsa-miR-32-5p	DSC2	1	1	2
hsa-miR-3173-3p	PIM1	1	1	2
hsa-miR-130b-3p	MYBL1	1	1	2
hsa-miR-143-5p	NPLOC4	1	1	2
hsa-miR-454-3p	BTF3L4	1	1	2
hsa-miR-190a-5p	OSBPL6	1	1	2
hsa-miR-25-5p	KLK9	1	1	2
hsa-miR-3173-3p	LCMT2	1	1	2
hsa-let-7i-5p	XKR8	1	1	2
hsa-miR-18a-5p	RABGAP1	1	1	2
hsa-let-7f-5p	GALNT1	1	1	2
hsa-miR-454-3p	GJA1	1	1	2
hsa-miR-3613-5p	NDST3	1	1	2
hsa-let-7f-5p	GALC	1	1	2
hsa-miR-454-3p	DLL1	1	1	2
hsa-miR-4436b-3p	SLC37A1	1	1	2
hsa-miR-130b-3p	LRP8	1	1	2
hsa-let-7d-5p	BEGAIN	1	1	2
hsa-miR-3613-5p	ANP32B	1	1	2
hsa-let-7f-5p	BACH1	1	1	2
hsa-miR-18a-5p	XYLT2	1	1	2
hsa-miR-3196	MGP	1	1	2
hsa-miR-4436b-3p	CYBRD1	1	1	2
hsa-let-7f-5p	NR6A1	1	1	2
hsa-let-7d-5p	GXYLT1	1	1	2
hsa-miR-130b-3p	RBBP8	1	1	2
hsa-miR-4436b-3p	SLC6A17	1	1	2
hsa-miR-3613-5p	DLG5	1	1	2
hsa-let-7i-5p	USP38	1	1	2
hsa-miR-1297	DCDC2	1	1	2
hsa-miR-920	AK9	1	1	2
hsa-miR-4436b-3p	ANKFY1	1	1	2
hsa-miR-454-3p	YTHDF2	1	1	2
hsa-miR-454-3p	EPS15	1	1	2

Table SIV. Continued.

miRNA	Targets	TargetScan	mirDB	NumSum
hsa-miR-454-3p	ZBTB4	1	1	2
hsa-miR-3173-3p	AQP2	1	1	2
hsa-let-7d-5p	EIF4G2	1	1	2
hsa-let-7f-5p	PBX1	1	1	2
hsa-let-7d-5p	NHLRC3	1	1	2
hsa-miR-143-5p	HN1	1	1	2
hsa-miR-3196	DLGAP3	1	1	2
hsa-miR-548ab	SDF4	1	1	2
hsa-miR-4436b-3p	RAB1B	1	1	2
hsa-let-7d-5p	BACH1	1	1	2
hsa-miR-454-3p	CLIP1	1	1	2
hsa-miR-4436b-3p	CDC42SE1	1	1	2
hsa-miR-454-3p	IRF1	1	1	2
hsa-let-7d-5p	HMGA1	1	1	2
hsa-miR-130b-3p	CHIC1	1	1	2
hsa-miR-130b-3p	KBTBD8	1	1	2
hsa-miR-18a-5p	KDM5B	1	1	2
hsa-miR-18a-5p	TMEM248	1	1	2
hsa-miR-545-5p	MAMDC2	1	1	2
hsa-miR-4436b-3p	RELT	1	1	2
hsa-miR-545-5p	C3orf58	1	1	2
hsa-miR-454-3p	SYBU	1	1	2
hsa-let-7i-5p	DLST	1	1	2
hsa-miR-130b-3p	PAK6	1	1	2
hsa-let-7f-5p	DDX26B	1	1	2
hsa-miR-32-5p	SLC12A5	1	1	2
hsa-let-7d-5p	MTUS1	1	1	2
hsa-miR-32-5p	MMD	1	1	2
hsa-let-7d-5p	SCN4B	1	1	2
hsa-miR-3173-3p	PPP1R1C	1	1	2
hsa-miR-4436b-3p	ARHGEF6	1	1	2
hsa-miR-1297	FAM98B	1	1	2
hsa-miR-32-5p	GRHL1	1	1	2
hsa-miR-1297	UBE2G1	1	1	2
hsa-let-7d-5p	MFSH4	1	1	2
hsa-let-7i-5p	ARG2	1	1	2
hsa-miR-1297	EZH2	1	1	2
hsa-miR-548ab	DEFA6	1	1	2
hsa-miR-32-5p	PCDH11Y	1	1	2
hsa-let-7d-5p	CPEB1	1	1	2
hsa-miR-454-3p	ARX	1	1	2
hsa-miR-4436b-3p	ADAMTS4	1	1	2
hsa-let-7i-5p	KLHL23	1	1	2
hsa-let-7f-5p	RIOK3	1	1	2
hsa-miR-130b-3p	MLLT6	1	1	2
hsa-miR-3173-3p	TRIM44	1	1	2
hsa-miR-920	STT3A	1	1	2
hsa-let-7f-5p	SLC25A18	1	1	2
hsa-miR-3613-5p	HEPACAM2	1	1	2
hsa-miR-32-5p	DUS2	1	1	2
hsa-miR-130b-3p	PSD	1	1	2
hsa-miR-548ab	SLC25A21	1	1	2
hsa-miR-130b-3p	TBL1XR1	1	1	2
hsa-miR-4463	ADIPOQ	1	1	2
hsa-miR-130b-3p	ZBTB18	1	1	2
hsa-miR-143-5p	GLCE	1	1	2

Table SIV. Continued.

miRNA	Targets	TargetScan	mirDB	NumSum
hsa-miR-4436b-3p	TEX264	1	1	2
hsa-miR-454-3p	KBTBD8	1	1	2
hsa-let-7f-5p	TMPPE	1	1	2
hsa-miR-454-3p	ACSL1	1	1	2
hsa-miR-4436b-3p	SOCS4	1	1	2
hsa-miR-4436b-3p	TNFAIP8L3	1	1	2
hsa-let-7i-5p	CDC34	1	1	2
hsa-miR-130b-3p	SKP1	1	1	2
hsa-miR-143-5p	VWC2L	1	1	2
hsa-miR-1297	RGS4	1	1	2
hsa-let-7i-5p	SLC5A6	1	1	2
hsa-miR-3196	MSX2	1	1	2
hsa-let-7d-5p	SLC25A18	1	1	2
hsa-miR-130b-3p	SNIP1	1	1	2
hsa-miR-3173-3p	GPR173	1	1	2
hsa-miR-32-5p	SLC25A32	1	1	2
hsa-miR-3173-3p	ZNF12	1	1	2
hsa-miR-25-5p	NFIX	1	1	2
hsa-miR-32-5p	G3BP2	1	1	2
hsa-miR-32-5p	FHL2	1	1	2
hsa-miR-1297	ARPP21	1	1	2
hsa-miR-130b-3p	ELK3	1	1	2
hsa-miR-1297	NABP1	1	1	2
hsa-miR-4436b-3p	C17orf67	1	1	2
hsa-miR-4436b-3p	TMEM25	1	1	2
hsa-miR-32-5p	RGL1	1	1	2
hsa-miR-18a-5p	CTGF	1	1	2
hsa-miR-545-5p	TOB1	1	1	2
hsa-miR-4436b-3p	PAPD7	1	1	2
hsa-miR-4463	BRINP3	1	1	2
hsa-miR-18a-5p	GIGYF1	1	1	2
hsa-miR-130b-3p	C7orf60	1	1	2
hsa-miR-18a-5p	HIF1A	1	1	2
hsa-miR-32-5p	FAM19A1	1	1	2
hsa-miR-454-3p	FOSL1	1	1	2
hsa-miR-4436b-3p	CXCR5	1	1	2
hsa-let-7f-5p	SMARCD1	1	1	2
hsa-miR-4436b-3p	USP7	1	1	2
hsa-miR-3196	SBF1	1	1	2
hsa-let-7d-5p	E2F6	1	1	2
hsa-let-7i-5p	C5orf51	1	1	2
hsa-let-7d-5p	SKIL	1	1	2
hsa-miR-3196	WSCD2	1	1	2
hsa-let-7d-5p	SPRYD4	1	1	2
hsa-miR-4463	KLRD1	1	1	2
hsa-miR-4436b-3p	SOWAHC	1	1	2
hsa-miR-1297	LOXL2	1	1	2
hsa-let-7i-5p	SPRYD4	1	1	2
hsa-miR-130b-3p	GAREM	1	1	2
hsa-let-7f-5p	PXT1	1	1	2
hsa-miR-32-5p	FAM20C	1	1	2
hsa-miR-454-3p	APPL1	1	1	2
hsa-miR-32-5p	CPEB3	1	1	2
hsa-miR-130b-3p	IER3IP1	1	1	2
hsa-miR-920	STK36	1	1	2
hsa-let-7d-5p	ADAMTS15	1	1	2

Table SIV. Continued.

miRNA	Targets	TargetScan	mirDB	NumSum
hsa-let-7d-5p	NRAS	1	1	2
hsa-miR-130b-3p	MYT1L	1	1	2
hsa-let-7d-5p	PBX3	1	1	2
hsa-let-7f-5p	DDI2	1	1	2
hsa-miR-32-5p	DNAJC30	1	1	2
hsa-miR-1297	BID	1	1	2
hsa-miR-454-3p	FBXO48	1	1	2
hsa-miR-920	SPRYD4	1	1	2
hsa-miR-4436b-3p	TCEA2	1	1	2
hsa-miR-454-3p	SPG20	1	1	2
hsa-miR-920	LSP1	1	1	2
hsa-miR-32-5p	ANKIB1	1	1	2
hsa-miR-3173-3p	NIPSNAP1	1	1	2
hsa-let-7f-5p	LIPT2	1	1	2
hsa-miR-32-5p	DUSP5	1	1	2
hsa-miR-32-5p	CDCA7L	1	1	2
hsa-miR-32-5p	UBE2Z	1	1	2
hsa-miR-1297	ACSL3	1	1	2
hsa-miR-4436b-3p	NAT16	1	1	2
hsa-let-7f-5p	ADRB2	1	1	2
hsa-miR-4436b-3p	NEUROD4	1	1	2
hsa-miR-3173-3p	LRRC59	1	1	2
hsa-miR-4436b-3p	CDIP1	1	1	2
hsa-miR-32-5p	TOB1	1	1	2
hsa-miR-454-3p	MEOX2	1	1	2
hsa-let-7d-5p	IGDCC3	1	1	2
hsa-miR-454-3p	ADAM12	1	1	2
hsa-miR-32-5p	EFR3A	1	1	2
hsa-let-7d-5p	RIOK3	1	1	2
hsa-miR-454-3p	ACVR1	1	1	2
hsa-miR-32-5p	ANP32E	1	1	2
hsa-miR-4436b-3p	HMX2	1	1	2
hsa-miR-548ab	ARL6IP6	1	1	2
hsa-let-7i-5p	HMGA1	1	1	2
hsa-miR-32-5p	FAM110B	1	1	2
hsa-miR-454-3p	UBXN2B	1	1	2
hsa-let-7f-5p	BZW2	1	1	2
hsa-miR-3196	LRRC15	1	1	2
hsa-miR-3173-3p	TMEM184B	1	1	2
hsa-miR-32-5p	PKDCC	1	1	2
hsa-miR-3613-5p	SCAF8	1	1	2
hsa-let-7i-5p	BIN3	1	1	2
hsa-miR-3173-3p	SNTA1	1	1	2
hsa-miR-454-3p	SH3D19	1	1	2
hsa-miR-32-5p	PIKFYVE	1	1	2
hsa-miR-1297	SKP2	1	1	2
hsa-miR-18a-5p	GCLC	1	1	2
hsa-miR-4436b-3p	DHDDS	1	1	2
hsa-miR-32-5p	MYCBP2	1	1	2
hsa-miR-3173-3p	PRR13	1	1	2
hsa-miR-920	RHOJ	1	1	2
hsa-let-7d-5p	UHRF2	1	1	2
hsa-miR-25-5p	C5orf15	1	1	2
hsa-let-7d-5p	KLHL31	1	1	2
hsa-miR-32-5p	CBLN4	1	1	2
hsa-miR-18a-5p	KCNA1	1	1	2

Table SIV. Continued.

miRNA	Targets	TargetScan	mirDB	NumSum
hsa-miR-4436b-3p	TBC1D9B	1	1	2
hsa-miR-32-5p	JOSD1	1	1	2
hsa-miR-130b-3p	HPRT1	1	1	2
hsa-miR-1297	PRKCD	1	1	2
hsa-miR-4436b-3p	AGO1	1	1	2
hsa-miR-454-3p	TGFBR2	1	1	2
hsa-let-7i-5p	ULK2	1	1	2
hsa-miR-130b-3p	THOP1	1	1	2
hsa-miR-32-5p	TMEM87A	1	1	2
hsa-let-7i-5p	ARRDC4	1	1	2
hsa-miR-130b-3p	FAM73A	1	1	2
hsa-miR-920	CLEC4E	1	1	2
hsa-miR-3173-3p	NRM	1	1	2
hsa-miR-3173-3p	RNF144B	1	1	2
hsa-miR-130b-3p	DSEL	1	1	2
hsa-miR-1297	MSMO1	1	1	2
hsa-miR-130b-3p	SOC5	1	1	2
hsa-miR-130b-3p	FOSL1	1	1	2
hsa-let-7f-5p	PBX3	1	1	2
hsa-miR-454-3p	RAP2C	1	1	2
hsa-miR-130b-3p	ARHGAP1	1	1	2
hsa-let-7f-5p	ULK2	1	1	2
hsa-miR-32-5p	NEFH	1	1	2
hsa-miR-1297	TOB1	1	1	2
hsa-miR-32-5p	MAP2K4	1	1	2
hsa-miR-130b-3p	POU4F1	1	1	2
hsa-miR-454-3p	HABP4	1	1	2
hsa-miR-18a-5p	NEDD9	1	1	2
hsa-miR-32-5p	UBXN4	1	1	2
hsa-miR-454-3p	DGKE	1	1	2
hsa-miR-1297	ZDHHC6	1	1	2
hsa-let-7d-5p	COL24A1	1	1	2
hsa-miR-32-5p	SRPR	1	1	2
hsa-miR-3196	NFIX	1	1	2
hsa-miR-130b-3p	RAB9B	1	1	2
hsa-miR-132-5p	FSTL3	1	1	2
hsa-miR-130b-3p	RTN1	1	1	2
hsa-miR-4463	RDH11	1	1	2
hsa-miR-454-3p	ACBD3	1	1	2
hsa-let-7d-5p	DDX19B	1	1	2
hsa-miR-32-5p	PAX9	1	1	2
hsa-miR-130b-3p	HABP4	1	1	2
hsa-miR-454-3p	FZD6	1	1	2
hsa-miR-132-5p	WIZ	1	1	2
hsa-miR-3173-3p	STK40	1	1	2
hsa-miR-32-5p	ERGIC2	1	1	2
hsa-let-7d-5p	CPA4	1	1	2
hsa-let-7d-5p	MXD1	1	1	2
hsa-miR-130b-3p	KIF13A	1	1	2
hsa-miR-4463	NT5DC4	1	1	2
hsa-miR-130b-3p	GRB10	1	1	2
hsa-let-7d-5p	CCNJ	1	1	2
hsa-miR-3173-3p	PIANP	1	1	2
hsa-miR-3173-3p	MAX	1	1	2
hsa-miR-454-3p	PPP1R15B	1	1	2
hsa-miR-18a-5p	TMEM170B	1	1	2

Table SIV. Continued.

miRNA	Targets	TargetScan	mirDB	NumSum
hsa-miR-454-3p	KIAA1468	1	1	2
hsa-miR-920	OR11A1	1	1	2
hsa-miR-454-3p	DSEL	1	1	2
hsa-miR-4436b-3p	SYT7	1	1	2
hsa-let-7d-5p	RDX	1	1	2
hsa-miR-32-5p	KAT2B	1	1	2
hsa-miR-3196	SLITRK1	1	1	2
hsa-miR-130b-3p	IRF1	1	1	2
hsa-miR-130b-3p	LRP6	1	1	2
hsa-miR-130b-3p	MSMO1	1	1	2
hsa-miR-1297	STRADB	1	1	2
hsa-miR-130b-3p	ACBD3	1	1	2
hsa-let-7f-5p	GNG5	1	1	2
hsa-let-7f-5p	HMGA2	1	1	2
hsa-let-7i-5p	NRAS	1	1	2
hsa-miR-3613-5p	BTBD10	1	1	2
hsa-miR-3173-3p	EXTL2	1	1	2
hsa-miR-454-3p	ENPP5	1	1	2
hsa-let-7d-5p	HIC2	1	1	2
hsa-let-7i-5p	IGDCC3	1	1	2
hsa-miR-190a-5p	CEBPA	1	1	2
hsa-let-7d-5p	ADRB3	1	1	2
hsa-miR-32-5p	FOXN2	1	1	2
hsa-miR-454-3p	MEMO1	1	1	2
hsa-let-7i-5p	STK40	1	1	2
hsa-miR-545-5p	UBE2D1	1	1	2
hsa-let-7f-5p	GXYLT1	1	1	2
hsa-miR-545-5p	ATG12	1	1	2
hsa-miR-1297	RCN2	1	1	2
hsa-miR-3173-3p	ESAM	1	1	2
hsa-let-7d-5p	HMGA2	1	1	2
hsa-miR-4436b-3p	SOX10	1	1	2
hsa-miR-3173-3p	CELF4	1	1	2
hsa-miR-548ab	MUT	1	1	2
hsa-let-7d-5p	AP1S1	1	1	2
hsa-miR-18a-5p	KPNA6	1	1	2
hsa-miR-4436b-3p	C17orf85	1	1	2
hsa-miR-32-5p	LRCH1	1	1	2
hsa-miR-920	KAT6A	1	1	2
hsa-let-7f-5p	MAPK6	1	1	2
hsa-let-7d-5p	RRM2	1	1	2
hsa-miR-18a-5p	RORA	1	1	2
hsa-let-7i-5p	IQCB1	1	1	2
hsa-miR-32-5p	PPCS	1	1	2
hsa-let-7i-5p	E2F6	1	1	2
hsa-miR-3173-3p	GPR37L1	1	1	2
hsa-miR-4436b-3p	NCKAP5L	1	1	2
hsa-miR-18a-5p	RBBP8	1	1	2
hsa-miR-32-5p	FBXW7	1	1	2
hsa-let-7i-5p	GAS7	1	1	2
hsa-miR-920	CUEDC1	1	1	2
hsa-let-7f-5p	STX3	1	1	2
hsa-let-7i-5p	CCR7	1	1	2
hsa-let-7i-5p	DDI2	1	1	2
hsa-miR-3173-3p	ZDHHC9	1	1	2
hsa-miR-32-5p	GOLGA3	1	1	2

Table SIV. Continued.

miRNA	Targets	TargetScan	mirDB	NumSum
hsa-miR-454-3p	MLLT6	1	1	2
hsa-miR-545-5p	C15orf56	1	1	2
hsa-miR-18a-5p	SH3BP4	1	1	2
hsa-miR-3173-3p	PYCR2	1	1	2
hsa-let-7d-5p	NGF	1	1	2
hsa-miR-130b-3p	CDK19	1	1	2
hsa-miR-130b-3p	RAPGEF4	1	1	2
hsa-miR-4436b-3p	CACNA2D2	1	1	2
hsa-miR-4436b-3p	MAFG	1	1	2
hsa-miR-18a-5p	SMAP2	1	1	2
hsa-miR-130b-3p	BTAF1	1	1	2
hsa-miR-454-3p	FAM46B	1	1	2
hsa-miR-454-3p	PLAA	1	1	2
hsa-miR-454-3p	TRIM37	1	1	2
hsa-miR-130b-3p	NRBF2	1	1	2
hsa-miR-454-3p	ARL6IP1	1	1	2
hsa-miR-454-3p	TMEM159	1	1	2
hsa-miR-32-5p	PTAR1	1	1	2
hsa-miR-130b-3p	SERINC3	1	1	2
hsa-miR-130b-3p	BBX	1	1	2
hsa-let-7d-5p	EDN1	1	1	2
hsa-miR-32-5p	SERTAD3	1	1	2
hsa-let-7i-5p	BACH1	1	1	2
hsa-miR-454-3p	MID1IP1	1	1	2
hsa-miR-545-5p	TSPAN12	1	1	2
hsa-miR-454-3p	MB21D2	1	1	2
hsa-miR-4436b-3p	CLSTN2	1	1	2
hsa-miR-454-3p	BTBD7	1	1	2
hsa-let-7d-5p	KLHDC8B	1	1	2
hsa-miR-3196	FAM43A	1	1	2
hsa-let-7i-5p	SMARCAD1	1	1	2
hsa-miR-4463	SFXN2	1	1	2
hsa-let-7i-5p	IGF2BP3	1	1	2
hsa-miR-920	ESRRA	1	1	2
hsa-miR-143-5p	PTHLH	1	1	2
hsa-let-7i-5p	GCNT4	1	1	2
hsa-let-7i-5p	MED8	1	1	2
hsa-miR-548ab	RNF138	1	1	2
hsa-let-7f-5p	LRIG2	1	1	2
hsa-miR-130b-3p	NEUROG1	1	1	2
hsa-let-7i-5p	PRPF38B	1	1	2
hsa-miR-4463	GSTA4	1	1	2
hsa-miR-920	OR7D2	1	1	2
hsa-miR-545-5p	MAPK6	1	1	2
hsa-miR-920	CERS2	1	1	2
hsa-miR-130b-3p	HOXA3	1	1	2
hsa-let-7f-5p	C15orf39	1	1	2
hsa-let-7f-5p	ACVR1C	1	1	2
hsa-miR-454-3p	LRP6	1	1	2
hsa-miR-130b-3p	CD69	1	1	2
hsa-miR-130b-3p	CBFB	1	1	2
hsa-let-7i-5p	MFSD4	1	1	2
hsa-miR-454-3p	ATG16L1	1	1	2
hsa-let-7i-5p	RALB	1	1	2
hsa-miR-454-3p	PIGA	1	1	2
hsa-miR-454-3p	NEUROG1	1	1	2

Table SIV. Continued.

miRNA	Targets	TargetScan	mirDB	NumSum
hsa-miR-4436b-3p	PVRL1	1	1	2
hsa-let-7d-5p	LIMD2	1	1	2
hsa-miR-130b-3p	FZD6	1	1	2
hsa-miR-130b-3p	PAN3	1	1	2
hsa-let-7i-5p	STX3	1	1	2
hsa-miR-454-3p	CHST1	1	1	2
hsa-miR-4436b-3p	CBX7	1	1	2
hsa-miR-3196	UFC1	1	1	2
hsa-miR-545-5p	IPO5	1	1	2
hsa-miR-3173-3p	ENPP6	1	1	2
hsa-miR-18a-5p	TWF1	1	1	2
hsa-let-7i-5p	UTRN	1	1	2
hsa-miR-130b-3p	UBE3B	1	1	2
hsa-miR-3173-3p	ATOH7	1	1	2
hsa-let-7i-5p	THAP9	1	1	2
hsa-miR-4436b-3p	SMARCD1	1	1	2
hsa-miR-18a-5p	BTG3	1	1	2
hsa-miR-130b-3p	RPS6KA5	1	1	2
hsa-miR-920	RBPMS2	1	1	2
hsa-let-7f-5p	NYNRIN	1	1	2
hsa-miR-4436b-3p	ULK3	1	1	2
hsa-miR-1297	PTEN	1	1	2
hsa-miR-130b-3p	BMPR2	1	1	2
hsa-miR-32-5p	KLF6	1	1	2
hsa-miR-3173-3p	EN2	1	1	2
hsa-miR-18a-5p	UBTD2	1	1	2
hsa-miR-454-3p	STX6	1	1	2
hsa-miR-32-5p	USP28	1	1	2
hsa-let-7d-5p	TLL4	1	1	2
hsa-let-7f-5p	PAPPA	1	1	2
hsa-miR-4436b-3p	ZSCAN31	1	1	2
hsa-let-7f-5p	FOXP2	1	1	2
hsa-miR-32-5p	RSBN1	1	1	2
hsa-miR-32-5p	IDH1	1	1	2
hsa-miR-3196	CHST1	1	1	2
hsa-miR-32-5p	MIA3	1	1	2
hsa-let-7i-5p	AHCTF1	1	1	2
hsa-miR-130b-3p	CMPK1	1	1	2
hsa-miR-3196	CDKN1A	1	1	2
hsa-miR-1297	ADM	1	1	2
hsa-let-7f-5p	COL4A6	1	1	2
hsa-let-7d-5p	HAND1	1	1	2
hsa-miR-920	DUSP23	1	1	2
hsa-let-7d-5p	TRIM71	1	1	2
hsa-miR-4436b-3p	SH2D5	1	1	2
hsa-miR-454-3p	FMR1	1	1	2
hsa-miR-548ab	S1PR1	1	1	2
hsa-miR-32-5p	NOVA1	1	1	2
hsa-miR-545-5p	NPFFR2	1	1	2
hsa-miR-143-5p	IVD	1	1	2
hsa-miR-132-5p	TRPS1	1	1	2

TargetScan version 7.1; mirDB version 5. NumSum, .

Table SV. GO terms for the dysregulated miRNAs in patients with low grade spinal cord glioma.

GO.ID	Term	Ontology	Count	Fold Enrichment	P-value	Enrichment Score
GO:0007411	axon guidance	BP	16	4.30300684	0.0000000	5.963938046
GO:0097485	neuron projection guidance	BP	16	4.283177315	1.15514E-06	5.937365018
GO:0031326	regulation of cellular biosynthetic process	BP	106	1.466095902	5.90604E-06	5.228703554
GO:0010556	regulation of macromolecule biosynthetic process	BP	102	1.473573842	7.98973E-06	5.097467803
GO:0009889	regulation of biosynthetic process	BP	106	1.448166225	1.05437E-05	4.977005641
GO:2000112	regulation of cellular macromolecule biosynthetic process	BP	99	1.471212239	1.27777E-05	4.893548144
GO:0006464	cellular protein modification process	BP	95	1.476352668	1.85007E-05	4.732811577
GO:0036211	protein modification process	BP	95	1.476352668	1.85007E-05	4.732811577
GO:0051171	regulation of nitrogen compound metabolic process	BP	106	1.426692027	2.09659E-05	4.678486275
GO:0031325	positive regulation of cellular metabolic process	BP	75	1.580839777	2.13041E-05	4.671536031
GO:0005868	cytoplasmic dynein complex	CC	3	11.84290429	0.001866395	2.728996324
GO:0044424	intracellular part	CC	250	1.089142905	0.002705397	2.567769001
GO:0005622	intracellular	CC	255	1.083970062	0.002825832	2.548853714
GO:0005654	nucleoplasm	CC	68	1.366798187	0.003691494	2.432797873
GO:1902494	catalytic complex	CC	31	1.653738887	0.004135511	2.38347087
GO:1990234	transferase complex	CC	22	1.821985275	0.005103131	2.292163283
GO:0005737	cytoplasm	CC	200	1.122763016	0.005586031	2.252896669
GO:0043226	organelle	CC	237	1.089499385	0.006315401	2.199599059
GO:0045171	intercellular bridge	CC	4	5.383138314	0.006365077	2.196196332
GO:0032154	cleavage furrow	CC	4	5.263513018	0.006894959	2.161468331
GO:0004407	histone deacetylase activity	MF	5	7.15432532	0.000629624	3.20091849
GO:0033558	protein deacetylase activity	MF	5	7.15432532	0.000629624	3.20091849
GO:0003700	transcription factor activity, sequence-specific DNA binding	MF	35	1.6983386	0.001443542	2.840570587
GO:0005488	binding	MF	244	1.084340133	0.001446697	2.839622298
GO:0001071	nucleic acid binding transcription factor activity	MF	35	1.696935014	0.00146398	2.834464933
GO:0061630	ubiquitin protein ligase activity	MF	10	3.023993177	0.001856386	2.731331679
GO:0019213	deacetylase activity	MF	5	5.534478078	0.002042343	2.689871352
GO:0061659	ubiquitin-like protein ligase activity	MF	10	2.948013449	0.002237311	2.650273673
GO:0016810	hydrolase activity, acting on carbon-nitrogen (but not peptide) bonds	MF	8	3.32853717	0.002897833	2.537926633
GO:0016811	hydrolase activity, acting on carbon-nitrogen (but not peptide) bonds, in linear amides	MF	6	4.240877178	0.002928964	2.53328597
GO:0048519	negative regulation of biological process	BP	215	1.314205599	1.90798E-06	5.719426803
GO:0032388	positive regulation of intracellular transport	BP	27	2.663195759	3.7914E-06	5.4212005
GO:0050767	regulation of neurogenesis	BP	47	1.946811894	1.01526E-05	4.993420919
GO:0060284	regulation of cell development	BP	52	1.856633772	1.28564E-05	4.890879567
GO:0048699	generation of neurons	BP	77	1.617947167	1.68617E-05	4.77309749
GO:0032880	regulation of protein localization	BP	59	1.749018492	1.99174E-05	4.700767386
GO:0019222	regulation of metabolic process	BP	269	1.220831373	2.15375E-05	4.66680564
GO:0048523	negative regulation of cellular process	BP	196	1.289164384	2.6332E-05	4.57951538

Table SV. Continued.

GO.ID	Term	Ontology	Count	Fold Enrichment	P-value	Enrichment Score
GO:0048522	positive regulation of cellular process	BP	212	1.269271432	2.81554E-05	4.550437846
GO:0070201	regulation of establishment of protein localization	BP	52	1.798101812	3.05516E-05	4.514965883
GO:0005634	nucleus	CC	304	1.231695572	1.80736E-06	5.742954258
GO:0044424	intracellular part	CC	530	1.088058844	2.04674E-05	4.688936828
GO:0005622	intracellular	CC	539	1.079686145	4.52986E-05	4.343915052
GO:0031201	SNARE complex	CC	9	4.738343261	9.9612E-05	4.001688294
GO:0043231	intracellular membrane-bounded organelle	CC	432	1.116763503	0.000106446	3.972871135
GO:0043229	intracellular organelle	CC	467	1.101332864	0.000127507	3.894465822
GO:0005654	nucleoplasm	CC	141	1.335507249	0.000128162	3.892241037
GO:0044428	nuclear part	CC	175	1.255625089	0.000414714	3.382251382
GO:0005667	transcription factor complex	CC	23	2.132167012	0.000558361	3.253084728
GO:0043209	myelin sheath	CC	15	2.536688817	0.000891245	3.050002988
GO:0000979	RNA polymerase II core promoter sequence-specific DNA binding	MF	10	4.975289811	2.61021E-05	4.583324366
GO:0005515	protein binding	MF	371	1.143380883	5.22559E-05	4.281864953
GO:0001046	core promoter sequence-specific DNA binding	MF	13	3.453720597	9.53024E-05	4.02089605
GO:0019899	enzyme binding	MF	93	1.455869988	0.000121009	3.917183879
GO:0005488	binding	MF	514	1.065460518	0.000314213	3.502775183
GO:0019904	protein domain specific binding	MF	39	1.769817022	0.000411229	3.385916662
GO:0001047	core promoter binding	MF	15	2.648138125	0.000563565	3.249056119
GO:0030546	receptor activator activity	MF	6	5.472818792	0.000651633	3.185997106
GO:0005484	SNAP receptor activity	MF	6	4.320646415	0.002365753	2.626030649
GO:0044212	transcription regulatory region DNA binding	MF	46	1.520227442	0.003095	2.50933933

GO, gene ontology; BP, biological process; CC, cellular component; MF, molecular function.

Table SVI. GO terms for the dysregulated miRNAs in patients with high-grade spinal cord glioma.

GO.ID	Term	Ontology	Count	Fold Enrichment	P-value	Enrichment Score
GO:0061564	axon development	BP	32	1.884141195	0.000467204	3.330493133
GO:0010256	endomembrane system organization	BP	37	1.767797217	0.000589361	3.229618287
GO:0007409	axonogenesis	BP	29	1.855430194	0.001076472	2.967997161
GO:0017145	stem cell division	BP	6	4.846511628	0.001255789	2.901083383
GO:0021761	limbic system development	BP	11	2.931223528	0.001296333	2.887283497
GO:0043434	response to peptide hormone	BP	28	1.855758299	0.00129942	2.88625061
GO:0021545	cranial nerve development	BP	7	4.112191684	0.001382592	2.859305976
GO:0021766	hippocampus development	BP	9	3.276514903	0.001605863	2.794291438
GO:0032366	intracellular sterol transport	BP	4	7.385160576	0.001629013	2.788075413
GO:0006289	nucleotide-excision repair	BP	12	2.69718908	0.001650105	2.782488524
GO:0055037	recycling endosome	CC	15	2.923483022	0.000191799	3.717154695
GO:0044424	intracellular part	CC	554	1.064487373	0.001085126	2.96451995
GO:1990234	transferase complex	CC	44	1.607166051	0.001359882	2.866498917
GO:0031984	organelle subcompartment	CC	23	1.963001018	0.001676812	2.775515512
GO:0005773	vacuole	CC	65	1.433757721	0.00210693	2.676349938
GO:0005802	trans-Golgi network	CC	16	2.222676453	0.002415005	2.617081893
GO:0044431	Golgi apparatus part	CC	51	1.494880881	0.002734588	2.563108056
GO:0005622	intracellular	CC	563	1.055531975	0.002756559	2.559632707
GO:1902494	catalytic complex	CC	61	1.435228241	0.00280379	2.552254499
GO:0000139	Golgi membrane	CC	41	1.565459622	0.003134448	2.503838998
GO:0016597	amino acid binding	MF	8	3.847369663	0.001005412	2.997655894
GO:0031406	carboxylic acid binding	MF	14	2.440110289	0.001855287	2.731588867
GO:0016740	transferase activity	MF	113	1.269831766	0.003803836	2.419778249
GO:0035035	histone acetyltransferase binding	MF	5	4.637454504	0.003922722	2.406412461
GO:0001055	RNA polymerase II activity	MF	3	7.790923567	0.005567144	2.254367583
GO:0017154	semaphorin receptor activity	MF	3	7.082657788	0.007437794	2.128555835
GO:0008201	heparin binding	MF	13	2.136751189	0.008139483	2.08940318
GO:0019787	ubiquitin-like protein transferase activity	MF	27	1.623109076	0.009461078	2.024059366
GO:0004842	ubiquitin-protein transferase activity	MF	26	1.630950183	0.010146749	1.993673089
GO:0071889	14-3-3 protein binding	MF	4	4.51647743	0.01076041	1.968171175
GO:0031323	regulation of cellular metabolic process	BP	442	1.295560544	5.41394E-12	11.26648637
GO:0060255	regulation of macromolecule metabolic process	BP	437	1.287648853	2.24375E-11	10.64902607
GO:0080090	regulation of primary metabolic process	BP	435	1.285365031	3.50315E-11	10.45554158
GO:0048522	positive regulation of cellular process	BP	364	1.33436413	4.74598E-11	10.32367393
GO:0019222	regulation of metabolic process	BP	454	1.261576484	1.61811E-10	9.790992476
GO:0044260	cellular macromolecule metabolic process	BP	585	1.195311319	2.24089E-10	9.649579537
GO:0048518	positive regulation of B process	BP	393	1.295305062	2.87708E-10	9.54104738
GO:0031325	positive regulation of cellular metabolic process	BP	238	1.449893814	3.44421E-10	9.462910604
GO:2000113	negative regulation of cellular macromolecule biosynthetic process	BP	131	1.707630432	5.60684E-10	9.251281925
GO:0007275	multicellular organism development	BP	368	1.304591601	7.11093E-10	9.148073833
GO:0005622	intracellular	CC	909	1.113989002	5.04481E-14	13.29715481
GO:0044424	intracellular part	CC	892	1.12033944	6.10334E-14	13.2144325
GO:0043231	intracellular membrane-bounded organelle	CC	725	1.146631132	6.2339E-10	9.205240322
GO:0043229	intracellular organelle	CC	779	1.123951142	2.4579E-09	8.60943571
GO:0005737	cytoplasm	CC	707	1.144240799	3.47097E-09	8.459549451
GO:0043227	membrane-bounded organelle	CC	782	1.116111027	1.30836E-08	7.883272894
GO:0043226	organelle	CC	828	1.097359412	6.13274E-08	7.212345617
GO:0044446	intracellular organelle part	CC	545	1.154472209	1.95608E-06	5.708613474
GO:0045202	synapse	CC	73	1.738088319	2.65413E-06	5.576077892
GO:0005623	cell	CC	986	1.043479112	2.73837E-06	5.562508064
GO:0005515	protein binding	MF	605	1.146818986	1.29835E-07	6.886608824
GO:0000977	RNA polymerase II regulatory region sequence-specific DNA binding	MF	65	1.860542463	9.06697E-07	6.042537824

Table SVI. Continued.

GO.ID	Term	Ontology	Count	Fold Enrichment	P-value	Enrichment Score
GO:0001012	RNA polymerase II regulatory region DNA binding	MF	65	1.857383647	9.62249E-07	6.01671254
GO:0016740	transferase activity	MF	190	1.383748653	9.87986E-07	6.005249019
GO:0000976	transcription regulatory region sequence-specific DNA binding	MF	70	1.755816296	2.83754E-06	5.547057975
GO:1990837	sequence-specific double-stranded DNA binding	MF	72	1.723775592	3.95133E-06	5.403256903
GO:0000982	transcription factor activity, RNA polymerase II core promoter proximal region sequence-specific binding	MF	42	2.103844169	3.99572E-06	5.398404898
GO:0000981	RNA polymerase II transcription factor	MF	67	1.742906452	5.96266E-06	5.224559904
GO:0043565	sequence-specific DNA binding	MF	97	1.543084192	1.06427E-05	4.972948523
GO:0001071	nucleic acid binding transcription factor activity	MF	108	1.50224906	1.07396E-05	4.969013737

GO, gene ontology; BP, biological process; CC, cellular component; MF, molecular function.