

KEGG Pathways targeted by downregulated miRs								KEGG Pathways targeted by upregulated miRs							
miRNA	PathName	PathFg	PathBg	GenomeFG	GenomeBG	pval	BH	miRNA	PathName	PathFg	PathBg	GenomeFG	GenomeBG	pval	BH
hsa-miR-146b-5p	Pathways in cancer	285	330	13741	19747	5.94E-13	1.15E-10	hsa-miR-3154	Endocytosis	158	187	11820	19747	1.86E-13	3.58E-11
hsa-miR-146a-5p	Pathways in cancer	285	330	13787	19747	1.11E-12	2.14E-10	hsa-miR-3154	Pathways in cancer	259	330	11820	19747	3.38E-13	6.53E-11
hsa-miR-652-5p	Pathways in cancer	203	330	8443	19747	3.76E-12	7.29E-10	hsa-miR-1193	Endocytosis	158	187	11973	19747	8.25E-13	1.60E-10
hsa-miR-221-5p	Axon guidance	121	129	13873	19747	2.76E-11	5.34E-09	hsa-miR-3154	Wnt signaling pathway	131	152	11820	19747	1.00E-12	1.93E-10
hsa-miR-99b-5p	Pathways in cancer	205	330	8827	19747	1.08E-10	2.10E-08	hsa-miR-937-5p	Calcium signaling pathway	86	178	4832	19747	3.95E-12	7.59E-10
hsa-miR-99b-3p	Wnt signaling pathway	134	152	12919	19747	1.21E-10	2.35E-08	hsa-miR-676-5p	Pathways in cancer	213	330	9088	19747	6.75E-12	1.31E-09
hsa-miR-27a-3p	Axon guidance	122	129	14343	19747	1.39E-10	2.70E-08	hsa-miR-532-3p	Pathways in cancer	221	330	9658	19747	1.84E-11	3.56E-09
hsa-let-7d-3p	Pathways in cancer	275	330	13453	19747	1.99E-10	3.87E-08	hsa-miR-3173-3p	Wnt signaling pathway	121	152	10610	19747	2.26E-11	4.39E-09
hsa-miR-652-5p	Chronic myeloid leukemia	59	75	8443	19747	2.22E-10	4.29E-08	hsa-miR-637	Axon guidance	118	129	13290	19747	6.80E-11	1.32E-08
hsa-miR-151a-3p	Pathways in cancer	285	330	14207	19747	2.45E-10	4.75E-08	hsa-miR-3173-3p	Pathways in cancer	234	330	10610	19747	9.27E-11	1.79E-08
hsa-miR-125a-5p	MAPK signaling pathway	215	272	12239	19747	8.86E-10	1.72E-07	hsa-miR-676-5p	Axon guidance	94	129	9088	19747	5.01E-10	9.67E-08
hsa-miR-301b	Pathways in cancer	295	330	15093	19747	1.02E-09	1.99E-07	hsa-miR-637	Pathways in cancer	271	330	13290	19747	8.57E-10	1.65E-07
hsa-miR-146a-5p	Adherens junction	73	76	13787	19747	8.25E-09	1.59E-06	hsa-miR-375	Endocytosis	142	187	10779	19747	1.04E-09	2.02E-07
hsa-miR-221-5p	Endocytosis	164	187	13873	19747	1.21E-08	2.32E-06	hsa-miR-532-3p	Insulin signaling pathway	103	139	9658	19747	1.10E-09	2.12E-07
hsa-miR-146a-3p	Wnt signaling pathway	141	152	14839	19747	1.44E-08	2.80E-06	hsa-miR-3154	Melanogenesis	89	102	11820	19747	1.12E-09	2.12E-07
hsa-miR-24-3p	Axon guidance	123	129	15270	19747	1.57E-08	3.02E-06	hsa-miR-676-5p	Colorectal cancer	67	86	9088	19747	1.41E-09	2.72E-07
hsa-miR-652-5p	Glioma	50	65	8443	19747	2.07E-08	3.95E-06	hsa-miR-2278	Pathways in cancer	241	330	11306	19747	1.54E-09	2.98E-07
hsa-miR-221-5p	Insulin signaling pathway	125	139	13873	19747	2.08E-08	3.97E-06	hsa-miR-3154	MAPK signaling pathway	209	272	11820	19747	1.94E-09	3.69E-07
hsa-miR-24-3p	Pathways in cancer	294	330	15270	19747	2.16E-08	4.17E-06	hsa-miR-3150a-3p	Pathways in cancer	265	330	12942	19747	1.08E-09	3.83E-07
hsa-miR-652-5p	ErbB signaling pathway	64	89	8443	19747	2.31E-08	4.42E-06	hsa-miR-3150a-3p	Axon guidance	114	129	12942	19747	2.48E-09	4.78E-07
hsa-miR-221-5p	Pathways in cancer	275	330	13873	19747	2.42E-08	4.63E-06	hsa-miR-129-5p	Axon guidance	123	129	15041	19747	3.23E-09	6.27E-07
hsa-miR-125a-5p	Axon guidance	108	129	12239	19747	5.39E-08	1.04E-05	hsa-miR-2278	Endocytosis	145	187	11306	19747	4.21E-09	8.07E-07
hsa-miR-146b-5p	Adherens junction	72	76	13741	19747	5.48E-08	1.06E-05	hsa-miR-676-5p	Prostate cancer	68	89	9088	19747	4.66E-09	8.85E-07
hsa-miR-301b	Wnt signaling pathway	141	152	15093	19747	9.10E-08	1.76E-05	hsa-miR-676-5p	Neurotrophin signaling pathway	92	129	9088	19747	4.75E-09	9.03E-07
hsa-miR-125a-5p	Pathways in cancer	249	330	12239	19747	1.12E-07	2.14E-05	hsa-miR-2278	Axon guidance	105	129	11306	19747	4.90E-09	9.42E-07
hsa-let-7d-3p	TGF beta signaling pathway	79	86	13453	19747	1.42E-07	2.74E-05	hsa-miR-3691-5p	Pathways in cancer	215	330	9774	19747	5.33E-09	1.03E-06
hsa-miR-27a-3p	Endocytosis	165	187	14343	19747	1.63E-07	3.15E-05	hsa-miR-4263	Pathways in cancer	190	330	8277	19747	5.65E-09	1.10E-06
hsa-miR-146b-5p	Wnt signaling pathway	133	152	13741	19747	1.66E-07	3.18E-05	hsa-miR-3154	Adherens junction	68	76	11820	19747	1.01E-08	1.90E-06
hsa-miR-181b-5p	Axon guidance	111	129	13039	19747	2.09E-07	4.05E-05	hsa-miR-3154	Axon guidance	107	129	11820	19747	1.28E-08	2.37E-06
hsa-miR-125a-5p	Insulin signaling pathway	114	139	12239	19747	2.24E-07	4.26E-05	hsa-miR-676-5p	MAPK signaling pathway	171	272	9088	19747	1.39E-08	2.62E-06
hsa-miR-146a-5p	Wnt signaling pathway	133	152	13787	19747	2.25E-07	4.32E-05	hsa-miR-3173-3p	Axon guidance	100	129	10610	19747	1.68E-08	3.21E-06
hsa-miR-125a-5p	Regulation of actin cytoskeleton	166	212	12239	19747	2.34E-07	4.44E-05	hsa-miR-676-5p	Glioma	52	65	9088	19747	1.93E-08	3.62E-06
hsa-miR-221-5p	Calcium signaling pathway	154	178	13873	19747	2.56E-07	4.84E-05	hsa-miR-608	Endocytosis	168	187	14514	19747	2.24E-08	4.35E-06
hsa-miR-24-3p	Endocytosis	171	187	15270	19747	2.83E-07	5.43E-05	hsa-miR-382-5p	Endocytosis	136	187	10473	19747	2.37E-08	4.60E-06
hsa-miR-99b-5p	Wnt signaling pathway	99	152	8827	19747	2.85E-07	5.50E-05	hsa-miR-3173-3p	T cell receptor signaling pathway	87	110	10610	19747	2.59E-08	4.95E-06
hsa-miR-146a-3p	ErbB signaling pathway	85	89	14839	19747	2.92E-07	5.63E-05	hsa-miR-532-3p	Pancreatic cancer	60	75	9658	19747	2.73E-08	5.21E-06
hsa-miR-221-5p	Glioma	62	65	13873	19747	3.89E-07	7.35E-05	hsa-miR-676-5p	Chronic myeloid leukemia	58	75	9088	19747	2.93E-08	5.48E-06
hsa-miR-99b-3p	Pathways in cancer	257	330	12919	19747	4.68E-07	8.98E-05	hsa-miR-532-3p	Colorectal cancer	67	86	9658	19747	3.08E-08	5.89E-06
hsa-let-7d-3p	Adherens junction	70	76	13453	19747	5.74E-07	0.000109615	hsa-miR-608	Pathways in cancer	283	330	14514	19747	4.78E-08	9.22E-06
hsa-miR-26a-5p	Pathways in cancer	287	330	15050	19747	6.21E-07	0.000120405	hsa-miR-637	Neurotrophin signaling pathway	113	129	13290	19747	8.62E-08	1.66E-05
hsa-miR-146a-3p	Pathways in cancer	284	330	14839	19747	6.76E-07	0.000128356	hsa-miR-3150a-3p	Endocytosis	155	187	12942	19747	9.22E-08	1.77E-05
hsa-miR-652-3p	Adherens junction	74	76	15230	19747	7.09E-07	0.000137521	hsa-miR-676-5p	T cell receptor signaling pathway	78	110	9088	19747	1.03E-07	1.88E-05
hsa-miR-221-3p	Pathways in cancer	258	330	13035	19747	7.44E-07	0.000144246	hsa-miR-1193	Axon guidance	106	129	11973	19747	1.03E-07	1.99E-05
hsa-let-7d-3p	Chronic myeloid leukemia	69	75	13453	19747	7.79E-07	0.000148044	hsa-miR-433-5p	Wnt signaling pathway	43	152	2448	19747	1.12E-07	2.07E-05
hsa-miR-125a-5p	Glioma	58	65	12239	19747	8.48E-07	0.000158546	hsa-miR-129-5p	Pathways in cancer	289	330	15041	19747	1.17E-07	2.27E-05
hsa-miR-99b-3p	Axon guidance	109	129	12919	19747	9.73E-07	0.000185914	hsa-miR-433-3p	Axon guidance	89	129	9123	19747	1.31E-07	2.54E-05
hsa-miR-146b-5p	Small cell lung cancer	77	84	13741	19747	9.76E-07	0.000186374	hsa-miR-3173-3p	Glioma	55	65	10610	19747	1.41E-07	2.64E-05
hsa-miR-99b-3p	Colorectal cancer	76	86	12919	19747	1.07E-06	0.000205225	hsa-miR-937-5p	MAPK signaling pathway	105	272	4832	19747	1.40E-07	2.66E-05
hsa-miR-151a-3p	Wnt signaling pathway	134	152	14207	19747	1.14E-06	0.000218293	hsa-miR-375	Axon guidance	99	129	10779	19747	1.39E-07	2.68E-05
hsa-miR-125a-5p	Cell adhesion molecules CAMs	108	133	12239	19747	1.23E-06	0.000229153	hsa-miR-3661	Pathways in cancer	182	330	8111	19747	1.41E-07	2.73E-05
hsa-miR-146a-5p	Small cell lung cancer	77	84	13787	19747	1.20E-06	0.000229196	hsa-miR-3173-3p	Endocytosis	135	187	10610	19747	1.55E-07	2.91E-05
hsa-miR-146a-3p	Chronic myeloid leukemia	72	75	14839	19747	1.32E-06	0.000248585	hsa-miR-3173-3p	Melanogenesis	80	102	10610	19747	1.83E-07	3.44E-05
hsa-let-7d-3p	Endocytosis	156	187	13453	19747	1.44E-06	0.000270114	hsa-miR-676-5p	ErbB signaling pathway	65	89	9088	19747	2.02E-07	3.64E-05
hsa-miR-146a-3p	Regulation of actin cytoskeleton	187	212	14839	19747	1.50E-06	0.000280619	hsa-miR-676-5p	Insulin signaling pathway	94	139	9088	19747	2.07E-07	3.72E-05
hsa-miR-125a-5p	Endocytosis	146	187	12239	19747	1.67E-06	0.000312096	hsa-miR-3150a-3p	Wnt signaling pathway	128	152	12942	19747	1.95E-07	3.73E-05
hsa-miR-146a-3p	Axon guidance	118	129	14839	19747	1.74E-06	0.000325833	hsa-miR-676-5p	Long term potentiation	54	71	9088	19747	2.36E-07	4.24E-05
hsa-miR-151a-3p	Axon guidance	115	129	14207	19747	1.76E-06	0.000335713	hsa-miR-676-5p	Renal cell carcinoma	54	71	9088	19747	2.36E-07	4.24E-05
hsa-miR-652-5p	Apoptosis	59	87	8443	19747	2.00E-06	0.000366655	hsa-miR-532-3p	Glioma	52	65	9658	19747	2.33E-07	4.33E-05
hsa-miR-221-5p	ErbB signaling pathway	81	89	13873	19747	2.03E-06	0.000379721	hsa-miR-937-5p	Pathways in cancer	122	330	4832	19747	2.34E-07	4.44E-05
hsa-miR-652-5p	Renal cell carcinoma	50	71	8443	19747	2.18E-06	0.000398159	hsa-miR-4263	Endocytosis	113	187	8277	19747	2.34E-07	4.52E-05
hsa-miR-652-5p	Prostate cancer	60	89	8443	19747	2.23E-06	0.000407587	hsa-miR-676-5p	Phosphatidylinositol signaling system	57	76	9088	19747	2.52E-07	4.53E-05
hsa-let-7d-3p	Neurotrophin signaling pathway	111	129	13453	19747	2.25E-06	0.000418964	hsa-miR-129-5							

hsa-miR-27a-3p	Pathways in cancer	275	330	14343	19747	2.80E-06	0.000538022	hsa-miR-676-5p	Small cell lung cancer	61	84	9088	19747	6.64E-07	0.000118921
hsa-miR-146a-5p	MAPK signaling pathway	223	272	13787	19747	2.88E-06	0.000546761	hsa-miR-532-3p	Regulation of actin cytoskeleton	139	212	9658	19747	6.49E-07	0.00011934
hsa-miR-652-3p	Wnt signaling pathway	139	152	15230	19747	2.88E-06	0.000552453	hsa-miR-4263	Glioma	47	65	8277	19747	6.57E-07	0.000126091
hsa-miR-151a-5p	Endocytosis	169	187	15295	19747	2.99E-06	0.000576318	hsa-miR-2278	Chronic myeloid leukemia	63	75	11306	19747	6.81E-07	0.000129308
hsa-miR-652-5p	T cell receptor signaling pathway	71	110	8443	19747	3.21E-06	0.000580306	hsa-miR-2278	Pancreatic cancer	63	75	11306	19747	6.81E-07	0.000129308
hsa-miR-652-5p	Wnt signaling pathway	93	152	8443	19747	3.40E-06	0.000615824	hsa-miR-382-5p	Adherens junction	61	76	10473	19747	6.98E-07	0.000134014
hsa-miR-652-5p	Neurotrophin signaling pathway	81	129	8443	19747	3.41E-06	0.000616447	hsa-miR-129-5p	ErbB signaling pathway	85	89	15041	19747	7.87E-07	0.000149568
hsa-miR-125a-5p	ErbB signaling pathway	75	89	12239	19747	3.56E-06	0.000659413	hsa-miR-532-3p	Wnt signaling pathway	104	152	9658	19747	8.15E-07	0.000150016
hsa-miR-223-5p	T cell receptor signaling pathway	107	110	16441	19747	3.42E-06	0.00066282	hsa-miR-3154	Cell adhesion molecules CAMs	106	133	11820	19747	8.20E-07	0.000152587
hsa-miR-151a-5p	Pathways in cancer	288	330	15295	19747	3.48E-06	0.000671795	hsa-miR-532-3p	Phosphatidylinositol signaling system	58	76	9658	19747	9.09E-07	0.000167308
hsa-miR-301b	Chronic myeloid leukemia	72	75	15093	19747	3.87E-06	0.000739802	hsa-miR-937-5p	Non small cell lung cancer	30	54	4832	19747	9.69E-07	0.000182236
hsa-miR-146b-5p	MAPK signaling pathway	222	272	13741	19747	3.95E-06	0.000741854	hsa-miR-3173-3p	Neurotrophin signaling pathway	96	129	10610	19747	9.93E-07	0.000182692
hsa-miR-221-3p	Ubiquitin mediated proteolysis	112	134	13035	19747	4.08E-06	0.000774469	hsa-miR-3661	Wnt signaling pathway	92	152	8111	19747	9.59E-07	0.000185027
hsa-let-7d-3p	Wnt signaling pathway	128	152	13453	19747	4.64E-06	0.000854327	hsa-miR-375	Focal adhesion	144	203	10779	19747	1.18E-06	0.000226129
hsa-let-7d-3p	ErbB signaling pathway	79	89	13453	19747	4.84E-06	0.000890414	hsa-miR-937-5p	Glioma	34	65	4832	19747	1.23E-06	0.000230123
hsa-miR-652-3p	Axon guidance	119	129	15230	19747	4.72E-06	0.000901273	hsa-miR-3173-3p	Insulin signaling pathway	102	160	10610	19747	1.42E-06	0.000260292
hsa-let-7d-3p	Acute myeloid leukemia	54	58	13453	19747	5.01E-06	0.000921932	hsa-miR-375	Calcium signaling pathway	128	178	10779	19747	1.42E-06	0.000271247
hsa-miR-125a-5p	Wnt signaling pathway	120	152	12239	19747	5.09E-06	0.000941957	hsa-miR-3154	Ubiquitin mediated proteolysis	106	134	11820	19747	1.62E-06	0.000298792
hsa-miR-221-3p	Axon guidance	108	129	13035	19747	5.16E-06	0.000974476	hsa-miR-2278	Adherens junction	63	76	11306	19747	1.75E-06	0.000329171
hsa-miR-301b	Endocytosis	167	187	15093	19747	5.17E-06	0.000988193	hsa-miR-676-5p	Non small cell lung cancer	42	54	9088	19747	1.85E-06	0.000329657
hsa-let-7d-3p	MAPK signaling pathway	218	272	13453	19747	5.73E-06	0.001049391	hsa-miR-382-5p	Wnt signaling pathway	109	152	10473	19747	1.78E-06	0.000339674
hsa-miR-151a-3p	Ubiquitin mediated proteolysis	118	134	14207	19747	5.66E-06	0.001075352	hsa-miR-3173-3p	B cell receptor signaling pathway	60	75	10610	19747	1.88E-06	0.000342029
hsa-miR-181b-5p	MAPK signaling pathway	213	272	13039	19747	5.64E-06	0.001076516	hsa-miR-3150a-3p	ErbB signaling pathway	78	89	12942	19747	1.86E-06	0.00035165
hsa-miR-99b-3p	Prostate cancer	77	89	12919	19747	6.00E-06	0.001127492	hsa-miR-433-5p	Pathways in cancer	71	330	2448	19747	1.99E-06	0.000365819
hsa-miR-223-3p	Axon guidance	122	129	15956	19747	6.01E-06	0.001159541	hsa-miR-1193	Phosphatidylinositol signaling system	65	76	11973	19747	1.94E-06	0.000368425
hsa-miR-181b-5p	Wnt signaling pathway	125	152	13039	19747	6.43E-06	0.001228033	hsa-miR-3154	ogenic right ventricular cardiomyopat	63	74	11820	19747	2.12E-06	0.000392694
hsa-miR-146a-3p	Leukocyte transendothelial migration	106	116	14839	19747	6.73E-06	0.001244943	hsa-miR-1193	Pathways in cancer	240	330	11973	19747	2.32E-06	0.000440991
hsa-miR-744-3p	Wnt signaling pathway	145	152	16506	19747	6.54E-06	0.001262583	hsa-miR-637	ErbB signaling pathway	79	89	13290	19747	2.35E-06	0.000444226
hsa-miR-223-3p	Pathways in cancer	296	330	15956	19747	6.82E-06	0.001316138	hsa-miR-2278	Focal adhesion	148	203	11306	19747	2.49E-06	0.000466262
hsa-miR-99b-3p	Cell adhesion molecules CAMs	110	133	12919	19747	7.29E-06	0.001363793	hsa-miR-3173-3p	Endometrial cancer	44	52	10610	19747	2.59E-06	0.000469201
hsa-miR-652-5p	MAPK signaling pathway	152	272	8443	19747	7.93E-06	0.00143514	hsa-miR-3173-3p	Colorectal cancer	67	86	10610	19747	2.80E-06	0.00050723
hsa-miR-146b-5p	Apoptosis	78	87	13741	19747	7.65E-06	0.00143004	hsa-miR-129-5p	Insulin signaling pathway	127	139	15041	19747	2.86E-06	0.000539903
hsa-miR-652-3p	Pathways in cancer	286	330	15230	19747	7.53E-06	0.001431	hsa-miR-4263	ErbB signaling pathway	59	89	8277	19747	2.89E-06	0.000546005
hsa-miR-744-3p	Axon guidance	124	129	16506	19747	8.58E-06	0.001656522	hsa-miR-608	Axon guidance	116	129	14514	19747	3.10E-06	0.000588651
hsa-miR-26a-5p	Wnt signaling pathway	137	152	15050	19747	8.61E-06	0.001661697	hsa-miR-937-5p	T cell receptor signaling pathway	49	110	4832	19747	3.18E-06	0.000588667
hsa-miR-126-5p	Pathways in cancer	289	330	15467	19747	9.05E-06	0.001738441	hsa-miR-4263	Axon guidance	80	129	8277	19747	3.14E-06	0.000591131
hsa-miR-146a-5p	Apoptosis	78	87	13787	19747	9.30E-06	0.00173915	hsa-miR-532-3p	Non small cell lung cancer	43	54	9658	19747	3.30E-06	0.000604471
hsa-miR-221-3p	ErbB signaling pathway	77	89	13035	19747	9.83E-06	0.00184853	hsa-miR-3150a-3p	Non small cell lung cancer	50	54	12942	19747	3.40E-06	0.000638568
hsa-miR-146b-5p	Colorectal cancer	77	86	13741	19747	9.91E-06	0.00185234	hsa-miR-937-5p	Apoptosis	41	87	4832	19747	3.53E-06	0.000650113
hsa-let-7d-3p	Colorectal cancer	76	86	13453	19747	1.08E-05	0.001972605	hsa-miR-433-3p	Insulin signaling pathway	91	139	9123	19747	3.43E-06	0.000662456
hsa-miR-146b-5p	Chronic myeloid leukemia	68	75	13741	19747	1.17E-05	0.002180513	hsa-miR-2278	Small cell lung cancer	68	84	11306	19747	3.70E-06	0.000688144
hsa-miR-181b-5p	Fc gamma R mediated phagocytosis	83	97	13039	19747	1.16E-05	0.002209655	hsa-miR-937-5p	Phosphatidylinositol signaling system	37	76	4832	19747	4.02E-06	0.000738776
hsa-miR-146a-5p	Colorectal cancer	77	86	13787	19747	1.20E-05	0.002245296	hsa-miR-4263	Chronic myeloid leukemia	51	75	8277	19747	4.39E-06	0.000825469
hsa-miR-126-5p	Wnt signaling pathway	139	152	15467	19747	1.27E-05	0.002437502	hsa-miR-3173-3p	Non small cell lung cancer	45	54	10610	19747	4.67E-06	0.000826824
hsa-miR-652-3p	Endocytosis	167	187	15230	19747	1.33E-05	0.002493059	hsa-miR-375	Pathways in cancer	220	330	10779	19747	4.48E-06	0.000836828
hsa-miR-151a-5p	Wnt signaling pathway	138	152	15295	19747	1.31E-05	0.002522168	hsa-miR-3173-3p	Thyroid cancer	27	29	10610	19747	4.84E-06	0.00085752
hsa-miR-221-3p	Neurotrophin signaling pathway	107	129	13035	19747	1.35E-05	0.00252974	hsa-miR-375	Wnt signaling pathway	110	152	10779	19747	4.69E-06	0.0008775
hsa-miR-652-5p	SNARE interactions in vesicular transport	30	39	8443	19747	1.48E-05	0.002572461	hsa-miR-608	Glioma	62	65	14514	19747	4.64E-06	0.000877617
hsa-miR-146a-5p	Chronic myeloid leukemia	68	75	13787	19747	1.39E-05	0.002602666	hsa-miR-3691-5p	Endocytosis	123	187	9774	19747	4.66E-06	0.000894984
hsa-miR-99b-5p	Chronic myeloid leukemia	52	75	8827	19747	1.38E-05	0.002621433	hsa-miR-3154	Colorectal cancer	71	86	11820	19747	5.07E-06	0.000933444
hsa-miR-99b-5p	Pancreatic cancer	52	75	8827	19747	1.38E-05	0.002621433	hsa-miR-433-5p	MAPK signaling pathway	60	272	2448	19747	5.30E-06	0.000968988
hsa-miR-652-5p	Acute myeloid leukemia	41	58	8443	19747	1.54E-05	0.002674418	hsa-miR-3661	MAPK signaling pathway	148	272	8111	19747	5.45E-06	0.001029743
hsa-miR-223-5p	ErbB signaling pathway	87	89	16441	19747	1.42E-05	0.002719466	hsa-miR-4263	Wnt signaling pathway	91	152	8277	19747	5.81E-06	0.001087381
hsa-miR-146a-3p	Glioma	62	65	14839	19747	1.54E-05	0.002794031	hsa-miR-532-3p	Axon guidance	88	129	9658	19747	6.74E-06	0.00121298
hsa-miR-181b-5p	Pathways in cancer	253	330	13039	19747	1.49E-05	0.002824012	hsa-miR-3661	Chronic myeloid leukemia	50	75	8111	19747	6.54E-06	0.001230248
hsa-let-7d-3p	Focal adhesion	165	203	13453	19747	1.70E-05	0.003081516	hsa-miR-3661	Axon guidance	78	129	8111	19747	6.59E-06	0.001238636
hsa-let-7d-3p	Axon guidance	109	129	13453	19747	1.71E-05	0.003094515	hsa-miR-937-5p	Colorectal cancer	40	86	4832	19747	6.92E-06	0.00125896
hsa-miR-126-5p	Small cell lung cancer	80	84	15467	19747	1.62E-05	0.003108266	hsa-miR-129-5p	Apoptosis	82	87	15041	19747	6.80E-06	0.001270755
hsa-miR-223-5p	Chronic myeloid leukemia	74	75	16441	19747	1.69E-05	0.003210969	hsa-miR-3661	Insulin signaling pathway	83	139	8111	19747	6.77E-06	0.001272139
hsa-miR-652-5p	mTOR signaling pathway	38	53	8443	19747	1.86E-05	0.003226211	hsa-miR-608	Calcium signaling pathway	155	178	14514	19747	7.88E-06	0.001481972
hsa-let-7d-5p	Pathways in cancer	315	330	17554	19747	1.75E-05	0.003396985	hsa-miR-3691-5p	Wnt signaling pathway	102	152	9774	19747	8.00E-06	0.001536229
hsa-miR-221-5p	Chronic myeloid leukemia	68	75	13873	19747	1.93E-05	0.003438583	hsa-miR-375	Adherens junction	60	76	10779	19747	8.26E-06	0.001545524
hsa-miR-652-5p	Melanoma	48	71	8443	19747	2.02E-05	0.003494366	hsa-miR-3154	Phosphatidylinositol signaling system	60	76	10779	19747	8.26E-06	0.001545524
hsa-miR-223-3p	Calcium signaling pathway	164	178	15956	19747	1.88E-05	0.003606707	hsa-miR-2278	T cell receptor signaling pathway	85	110	11306	19747	8.52E-06	0.001551167
hsa-miR-223-5p	Pathways in cancer	301	330	16441	19747	1.96E-05	0.003704269	hsa-miR-608	MAPK signaling pathway	230	272	14514	19747	8.25E-06	0.001551881
hsa-miR-221-5p	Neurotrophin signaling pathway	111	129	13873	19747	2.10E-05	0.003737615	hsa-miR-637	Glioma	59	65	13290	19747	8.74E-06	0.001633837
hsa-miR-652-5p	Small cell lung cancer	55	84	8443	19747	2.17E-05	0.003738729	hsa-miR-3173-3p	Long term potentiation	56	71	10610	19747	9.35E-06	0.001636552
hsa-miR-221-5p	T cell receptor signaling pathway</														

hsa-miR-27a-3p	Adherens junction	70	76	14343	19747	2.16E-05	0.004089051	hsa-miR-676-5p	mTOR signaling pathway	40	53	9088	19747	1.21E-05	0.002084177
hsa-miR-652-5p	Focal adhesion	116	203	8443	19747	2.38E-05	0.004100562	hsa-miR-433-3p	Neurotrophin signaling pathway	84	129	9123	19747	1.10E-05	0.002087882
hsa-miR-652-3p	Endometrial cancer	51	52	15230	19747	2.20E-05	0.004114507	hsa-miR-4263	Colorectal cancer	56	86	8277	19747	1.16E-05	0.002163362
hsa-miR-125a-5p	Neurotrophin signaling pathway	102	129	12239	19747	2.27E-05	0.004126786	hsa-miR-3173-3p	Acute myeloid leukemia	47	58	10610	19747	1.30E-05	0.002259715
hsa-miR-24-3p	Colorectal cancer	81	86	15270	19747	2.28E-05	0.004279423	hsa-miR-676-5p	B cell receptor signaling pathway	53	75	9088	19747	1.32E-05	0.002265747
hsa-miR-221-5p	Regulation of actin cytoskeleton	175	212	13873	19747	2.62E-05	0.004615688	hsa-miR-676-5p	Pancreatic cancer	53	75	9088	19747	1.32E-05	0.002265747
hsa-miR-146a-3p	Cell adhesion molecules CAMs	119	133	14839	19747	2.58E-05	0.004623698	hsa-miR-3150a-3p	Insulin signaling pathway	114	139	12942	19747	1.25E-05	0.002290808
hsa-miR-221-3p	Endocytosis	149	187	13035	19747	2.63E-05	0.004916839	hsa-miR-676-5p	Wnt signaling pathway	96	152	9088	19747	1.49E-05	0.002540805
hsa-miR-181b-5p	Endocytosis	149	187	13039	19747	2.69E-05	0.005063439	hsa-miR-1193	Wnt signaling pathway	117	152	11973	19747	1.37E-05	0.002590057
hsa-miR-99b-3p	Pancreatic cancer	65	75	12919	19747	2.86E-05	0.005201606	hsa-miR-2278	Neurotrophin signaling pathway	97	129	11306	19747	1.60E-05	0.00288654
hsa-miR-301b	Ubiquitin mediated proteolysis	121	134	15093	19747	2.93E-05	0.005512585	hsa-miR-2278	Adipocytokine signaling pathway	57	70	11306	19747	1.62E-05	0.00290998
hsa-miR-27a-5p	Pathways in cancer	321	330	18134	19747	3.13E-05	0.006063574	hsa-miR-4263	p53 signaling pathway	46	68	8277	19747	1.59E-05	0.002949381
hsa-miR-26a-5p	Apoptosis	81	87	15050	19747	3.18E-05	0.006076474	hsa-miR-532-3p	Endocytosis	120	187	9658	19747	1.72E-05	0.003038279
hsa-miR-99b-3p	Apoptosis	74	87	12919	19747	3.38E-05	0.006109809	hsa-miR-3661	Long term potentiation	47	71	8111	19747	1.64E-05	0.00304719
hsa-miR-99b-3p	Endometrial cancer	47	52	12919	19747	3.39E-05	0.006135748	hsa-miR-433-3p	ErbB signaling pathway	61	89	9123	19747	1.66E-05	0.003156987
hsa-miR-744-3p	Endocytosis	175	187	16506	19747	3.38E-05	0.006458382	hsa-miR-2278	ErbB signaling pathway	70	89	11306	19747	1.80E-05	0.003246443
hsa-miR-27a-3p	Calcium signaling pathway	152	178	14343	19747	3.56E-05	0.00662774	hsa-miR-3173-3p	VEGF signaling pathway	60	78	10610	19747	1.89E-05	0.003270655
hsa-miR-652-3p	Fc gamma R mediated phagocytosis	90	97	15230	19747	3.81E-05	0.007086578	hsa-miR-3173-3p	Pancreatic cancer	58	75	10610	19747	1.95E-05	0.003378572
hsa-miR-744-3p	Pathways in cancer	301	330	16506	19747	3.72E-05	0.007099297	hsa-miR-129-5p	Chronic myeloid leukemia	71	75	15041	19747	1.85E-05	0.003392068
hsa-miR-652-3p	MAPK signaling pathway	236	272	15230	19747	3.90E-05	0.007245493	hsa-miR-433-3p	Pathways in cancer	190	330	9123	19747	1.90E-05	0.003615798
hsa-miR-146a-3p	Pancreatic cancer	70	75	14839	19747	4.12E-05	0.007284646	hsa-miR-608	Focal adhesion	174	203	14514	19747	1.94E-05	0.003621254
hsa-miR-99b-3p	Hedgehog signaling pathway	50	56	12919	19747	4.22E-05	0.007643382	hsa-miR-937-5p	Amyotrophic lateral sclerosis ALS	28	55	4832	19747	2.05E-05	0.003650145
hsa-miR-221-5p	Vascular smooth muscle contraction	100	116	13873	19747	4.54E-05	0.007904124	hsa-miR-608	Wnt signaling pathway	133	157	14514	19747	1.99E-05	0.003725283
hsa-miR-99b-5p	Colorectal cancer	57	86	8827	19747	4.34E-05	0.008024221	hsa-miR-3154	Renal cell carcinoma	59	71	11820	19747	2.16E-05	0.00382754
hsa-miR-221-5p	Apoptosis	77	87	13873	19747	4.63E-05	0.008050708	hsa-miR-3173-3p	ErbB signaling pathway	67	89	10610	19747	2.22E-05	0.00383683
hsa-miR-151a-3p	Renal cell carcinoma	65	71	14207	19747	4.44E-05	0.008084078	hsa-miR-3661	Endocytosis	105	187	8111	19747	2.11E-05	0.003919558
hsa-miR-99b-3p	Melanogenesis	85	102	12919	19747	4.53E-05	0.008195955	hsa-miR-3173-3p	Focal adhesion	138	203	10610	19747	2.29E-05	0.003969531
hsa-miR-126-5p	Apoptosis	82	87	15467	19747	4.32E-05	0.008251944	hsa-miR-676-5p	Adherens junction	53	76	9088	19747	2.42E-05	0.004068711
hsa-miR-146b-5p	Pancreatic cancer	67	75	13741	19747	4.55E-05	0.008419426	hsa-miR-937-5p	B cell receptor signaling pathway	35	75	4832	19747	2.33E-05	0.004117821
hsa-miR-24-3p	Chronic myeloid leukemia	71	75	15270	19747	4.51E-05	0.008428672	hsa-miR-532-3p	Renal cell carcinoma	52	71	9658	19747	2.55E-05	0.004437818
hsa-miR-24-3p	Pancreatic cancer	71	75	15270	19747	4.51E-05	0.008428672	hsa-miR-532-3p	Adherens junction	55	76	9658	19747	2.67E-05	0.004643106
hsa-miR-652-3p	ErbB signaling pathway	83	89	15230	19747	4.55E-05	0.008460058	hsa-miR-937-5p	Endocytosis	71	187	4832	19747	2.65E-05	0.004656841
hsa-miR-301b	Colorectal cancer	80	86	15093	19747	4.66E-05	0.008572172	hsa-miR-937-5p	Melanogenesis	44	102	4832	19747	2.65E-05	0.004664436
hsa-miR-27a-3p	Wnt signaling pathway	131	152	14343	19747	4.73E-05	0.00871077	hsa-miR-3661	ErbB signaling pathway	56	89	8111	19747	2.55E-05	0.004738247
hsa-miR-223-5p	Non small cell lung cancer	54	54	16441	19747	4.97E-05	0.009251996	hsa-miR-937-5p	Wnt signaling pathway	60	152	4832	19747	2.87E-05	0.005024427
hsa-miR-221-5p	Renal cell carcinoma	64	71	13873	19747	5.43E-05	0.009392842	hsa-miR-433-5p	Colorectal cancer	25	86	2448	19747	2.91E-05	0.005244655
hsa-miR-652-5p	Ubiquitin mediated proteolysis	80	134	8443	19747	5.53E-05	0.009402445	hsa-miR-3691-5p	MAPK signaling pathway	168	272	9774	19747	2.80E-05	0.005339232
hsa-let-7d-3p	Prostate cancer	77	89	13453	19747	5.41E-05	0.009460262	hsa-miR-2278	Regulation of actin cytoskeleton	150	212	11306	19747	3.18E-05	0.005633362
hsa-miR-652-5p	Long term potentiation	47	71	8443	19747	5.61E-05	0.009535865	hsa-miR-532-3p	Endometrial cancer	40	52	9658	19747	3.29E-05	0.005664797
hsa-miR-151a-3p	Focal adhesion	170	203	14207	19747	5.49E-05	0.009874722	hsa-miR-532-3p	Neurotrophin signaling pathway	86	129	9658	19747	3.32E-05	0.005716635
hsa-miR-221-5p	Phosphatidylinositol signaling system	68	76	13873	19747	5.71E-05	0.009879627	hsa-miR-129-5p	Glioma	62	65	15041	19747	3.16E-05	0.005722473
hsa-miR-146a-3p	Endometrial cancer	50	52	14839	19747	5.66E-05	0.009906922	hsa-miR-637	Insulin signaling pathway	115	139	13290	19747	3.18E-05	0.005790205
hsa-miR-146a-5p	Pancreatic cancer	67	75	13787	19747	5.38E-05	0.009945064	hsa-miR-676-5p	GnRH signaling pathway	69	105	9088	19747	3.60E-05	0.005977811
hsa-let-7d-3p	Pancreatic cancer	66	75	13453	19747	5.71E-05	0.009997099	hsa-miR-2278	MAPK signaling pathway	188	272	11306	19747	3.41E-05	0.006039866
hsa-miR-221-5p	Colorectal cancer	76	86	13873	19747	5.86E-05	0.010145995	hsa-miR-3154	Basal cell carcinoma	47	55	11820	19747	3.53E-05	0.00614393
hsa-miR-223-5p	Wnt signaling pathway	143	152	16441	19747	5.47E-05	0.010179715	hsa-miR-129-5p	MAPK signaling pathway	234	272	15041	19747	3.48E-05	0.006267138
hsa-miR-24-3p	Arrhythmogenic right ventricular cardiomyopathy ARVC	70	74	15270	19747	5.54E-05	0.010357115	hsa-miR-1193	Neurotrophin signaling pathway	100	129	11973	19747	3.39E-05	0.006373963
hsa-miR-652-5p	Progesterone mediated oocyte maturation	56	88	8443	19747	6.18E-05	0.010436385	hsa-miR-2278	Renal cell carcinoma	57	71	11306	19747	3.62E-05	0.006411835
hsa-miR-99b-3p	Basal cell carcinoma	49	55	12919	19747	5.80E-05	0.010495132	hsa-miR-382-5p	Chronic myeloid leukemia	57	75	10473	19747	3.46E-05	0.006470155
hsa-miR-27a-3p	Prostate cancer	80	89	14343	19747	5.75E-05	0.010524801	hsa-miR-129-5p	Regulation of actin cytoskeleton	185	212	15041	19747	3.62E-05	0.006517932
hsa-let-7d-3p	Small cell lung cancer	73	84	13453	19747	6.08E-05	0.010634555	hsa-miR-2278	Wnt signaling pathway	111	152	11306	19747	3.85E-05	0.006767629
hsa-miR-221-5p	Non small cell lung cancer	50	54	13873	19747	6.36E-05	0.01093812	hsa-miR-676-5p	Adipocytokine signaling pathway	49	70	9088	19747	4.17E-05	0.006878598
hsa-miR-24-3p	Neurotrophin signaling pathway	117	129	15270	19747	5.96E-05	0.011146698	hsa-miR-382-5p	Colorectal cancer	64	86	10473	19747	3.69E-05	0.006896558
hsa-miR-146a-3p	Colorectal cancer	79	86	14839	19747	6.43E-05	0.011186343	hsa-miR-129-5p	Chemokine signaling pathway	166	189	15041	19747	3.98E-05	0.007159209
hsa-miR-99b-5p	mTOR signaling pathway	38	53	8827	19747	6.23E-05	0.01139481	hsa-miR-637	Basal cell carcinoma	50	55	13290	19747	3.98E-05	0.007197864
hsa-let-7d-5p	Cell cycle	122	124	17554	19747	5.98E-05	0.011547893	hsa-miR-937-5p	Long term potentiation	33	71	4832	19747	4.36E-05	0.007549902
hsa-miR-181b-5p	Glioma	57	65	13039	19747	6.25E-05	0.011624837	hsa-miR-3173-3p	Basal cell carcinoma	44	55	10610	19747	4.52E-05	0.007678658
hsa-miR-151a-3p	Chronic myeloid leukemia	68	75	14207	19747	6.65E-05	0.011900223	hsa-miR-382-3p	Pathways in cancer	136	203	6099	19747	4.04E-05	0.007748112
hsa-miR-99b-5p	Endocytosis	110	187	8827	19747	6.75E-05	0.0123556	hsa-miR-3154	TGF beta signaling pathway	69	86	11820	19747	4.51E-05	0.007763354
hsa-miR-301b	Axon guidance	116	129	15093	19747	6.87E-05	0.012504963	hsa-miR-3150a-3p	VEGF signaling pathway	67	78	12942	19747	4.43E-05	0.007798982
hsa-miR-301b	Small cell lung cancer	78	84	15093	19747	6.96E-05	0.012660861	hsa-miR-3150a-3p	Hedgehog signaling pathway	50	56	12942	19747	4.53E-05	0.00797248
hsa-miR-223-5p	Focal adhesion	188	203	16441	19747	6.92E-05	0.012810896	hsa-miR-3150a-3p	Colorectal cancer	73	86	12942	19747	4.83E-05	0.008050561
hsa-miR-223-5p	Endometrial cancer	52	52	16441	19747	7.18E-05	0.013289411	hsa-miR-3154	Prostate cancer	71	89	11820	19747	5.02E-05	0.008584782
hsa-miR-146a-3p	Endocytosis	162	187	14839	19747	7.71E-05	0.013343894	hsa-miR-937-3p	Endocytosis	67	187	4545	19747	4.70E-05	0.008972413
hsa-miR-652-5p	Insulin signaling pathway	82	139	8443	19747	8.08E-05	0.013651138	hsa-miR-3150a-3p	Neurotrophin signaling pathway	105	129	12942	19747	5.14E-05	0.009052311
hsa-miR-652-5p	Endocytosis	106	187	8443	19747	8.18E-05	0.01381728	hsa-miR-676-5p	Regulation of actin cytoskeleton	126	212	9088	19747	5.54E-05	0.009084991
hsa-miR-99b-5p	Focal adhesion	118	203	8827	19747	7.70E-05	0.014011162	hsa-miR-129-5p	Neurotrophin signaling pathway	116	129	15041	19747	5.27E-05	0.009441504
hsa-miR-26															

hsa-miR-181b-5p	Neurotrophin signaling pathway	105	129	13039	19747	8.12E-05	0.015027418	hsa-miR-375	MAPK signaling pathway	180	272	10779	19747	6.00E-05	0.011036871
hsa-miR-99b-5p	Calcium signaling pathway	105	178	8827	19747	8.36E-05	0.015207388	hsa-miR-676-5p	Endometrial cancer	38	52	9088	19747	6.83E-05	0.011133543
hsa-miR-223-3p	Wnt signaling pathway	140	152	15956	19747	8.08E-05	0.015345335	hsa-miR-3150a-3p	Prostate cancer	75	89	12942	19747	6.42E-05	0.011226759
hsa-miR-99b-5p	Ubiquitin mediated proteolysis	82	134	8827	19747	8.61E-05	0.015586676	hsa-miR-129-5p	Non small cell lung cancer	52	54	15041	19747	6.42E-05	0.011423822
hsa-miR-125a-5p	Long term potentiation	59	71	12239	19747	9.17E-05	0.016039243	hsa-miR-3154	Long term potentiation	58	71	11820	19747	6.88E-05	0.011622651
hsa-miR-125a-5p	Melanoma	59	71	12239	19747	9.17E-05	0.016039243	hsa-miR-433-5p	Insulin signaling pathway	34	139	2448	19747	6.61E-05	0.011691053
hsa-miR-223-5p	Prostate cancer	86	89	16441	19747	8.88E-05	0.016339284	hsa-miR-3154	Insulin signaling pathway	105	139	11820	19747	7.03E-05	0.011805596
hsa-miR-26a-5p	p53 signaling pathway	64	68	15050	19747	8.85E-05	0.016368915	hsa-miR-2278	Fc gamma R mediated phagocytosis	74	97	11306	19747	6.97E-05	0.011919696
hsa-miR-221-3p	Prostate cancer	75	89	13035	19747	9.16E-05	0.016666282	hsa-miR-382-5p	Apoptosis	64	87	10473	19747	6.74E-05	0.012467059
hsa-miR-181b-5p	ErbB signaling pathway	75	89	13039	19747	9.30E-05	0.017199915	hsa-miR-3661	mTOR signaling pathway	36	53	8111	19747	6.99E-05	0.012793959
hsa-miR-151a-3p	Insulin signaling pathway	119	139	14207	19747	0.0001009	0.017960267	hsa-miR-4263	Small cell lung cancer	53	84	8277	19747	7.15E-05	0.012875853
hsa-let-7d-3p	Regulation of actin cytoskeleton	169	212	13453	19747	0.000107859	0.018443966	hsa-miR-433-5p	Chronic myeloid leukemia	22	75	2448	19747	7.40E-05	0.013030214
hsa-miR-301b	p53 signaling pathway	64	68	15093	19747	0.000102674	0.01848127	hsa-miR-637	Calcium signaling pathway	143	178	13290	19747	7.43E-05	0.013219865
hsa-miR-652-5p	Calcium signaling pathway	101	178	8443	19747	0.000112703	0.018821464	hsa-miR-433-3p	Wnt signaling pathway	94	152	9123	19747	7.18E-05	0.013424446
hsa-miR-151a-3p	ErbB signaling pathway	79	89	14207	19747	0.00010857	0.019216806	hsa-miR-3150a-3p	Adherens junction	65	76	12942	19747	7.71E-05	0.013484791
hsa-miR-27a-3p	Colorectal cancer	77	86	14343	19747	0.000110484	0.019666191	hsa-miR-676-5p	Leukocyte transendothelial migration	74	116	9088	19747	8.46E-05	0.013698256
hsa-miR-221-5p	Focal adhesion	166	203	13873	19747	0.000115078	0.019678335	hsa-miR-3154	Small cell lung cancer	67	84	11820	19747	8.23E-05	0.013746453
hsa-miR-223-3p	Endocytosis	170	187	15956	19747	0.000104408	0.019837566	hsa-miR-608	Neurotrophin signaling pathway	113	129	14514	19747	7.48E-05	0.013772382
hsa-miR-99b-5p	Axon guidance	79	129	8827	19747	0.000110931	0.019967569	hsa-miR-382-5p	Axon guidance	90	129	10473	19747	7.58E-05	0.013947124
hsa-miR-652-3p	Non small cell lung cancer	52	54	15230	19747	0.000114054	0.020415739	hsa-miR-129-5p	Prostate cancer	82	89	15041	19747	7.95E-05	0.01406383
hsa-miR-221-5p	Melanogenesis	88	102	13873	19747	0.000121871	0.0208167	hsa-miR-637	Melanogenesis	86	102	13290	19747	7.97E-05	0.014111409
hsa-miR-744-5p	Endocytosis	183	187	17959	19747	0.000113356	0.021650935	hsa-miR-3154	Fc gamma R mediated phagocytosis	76	97	11820	19747	8.65E-05	0.01444931
hsa-miR-125a-5p	Notch signaling pathway	41	47	12239	19747	0.000124519	0.021666243	hsa-miR-676-5p	Endocytosis	112	187	9088	19747	8.96E-05	0.014521934
hsa-miR-221-5p	Fc gamma R mediated phagocytosis	84	97	13873	19747	0.000130035	0.022105871	hsa-miR-608	Non small cell lung cancer	51	54	14514	19747	8.10E-05	0.01482996
hsa-miR-146b-5p	Epithelial cell signaling in Helicobacter pylori infection	63	71	13741	19747	0.000125454	0.022330776	hsa-miR-608	Notch signaling pathway	45	47	14514	19747	8.12E-05	0.014850669
hsa-miR-146a-3p	Hedgehog signaling pathway	53	56	14839	19747	0.000131678	0.022385261	hsa-miR-937-5p	Fc epsilon RI signaling pathway	36	82	4832	19747	8.93E-05	0.014906568
hsa-miR-146a-3p	Calcium signaling pathway	154	178	14839	19747	0.000133824	0.022750096	hsa-miR-375	Regulation of actin cytoskeleton	143	212	10779	19747	8.47E-05	0.015503292
hsa-miR-146a-3p	Neurotrophin signaling pathway	114	129	14839	19747	0.000140382	0.023864929	hsa-miR-382-5p	ErbB signaling pathway	65	89	10473	19747	8.58E-05	0.015780163
hsa-miR-27a-3p	Arrhythmogenic right ventricular cardiomyopathy ARVC	67	74	14343	19747	0.000135707	0.024020225	hsa-miR-3150a-3p	Chondroitin sulfate biosynthesis	22	22	12942	19747	9.13E-05	0.015972402
hsa-miR-26a-5p	MAPK signaling pathway	232	272	15050	19747	0.000137266	0.02498239	hsa-miR-3173-3p	Cell adhesion molecules CAMs	93	133	10610	19747	9.59E-05	0.016110727
hsa-miR-221-3p	Chronic myeloid leukemia	64	75	13035	19747	0.000139064	0.025031591	hsa-miR-532-3p	Melanogenesis	69	102	9658	19747	9.71E-05	0.016309608
hsa-miR-27a-3p	p53 signaling pathway	82	88	14343	19747	0.000145605	0.025626428	hsa-miR-4263	Pancreatic cancer	48	75	8277	19747	9.24E-05	0.016446206
hsa-miR-301b	Apoptosis	60	67	15093	19747	0.000143821	0.025743921	hsa-miR-637	Long term potentiation	62	71	13290	19747	9.40E-05	0.016544959
hsa-miR-146a-5p	Epithelial cell signaling in Helicobacter pylori infection	63	71	13787	19747	0.000146249	0.025886116	hsa-miR-3150a-3p	Renal cell carcinoma	61	71	12942	19747	9.65E-05	0.016891079
hsa-miR-146b-5p	Ubiquitin mediated proteolysis	112	134	13741	19747	0.000147027	0.026023757	hsa-miR-937-5p	Neurotrophin signaling pathway	51	129	4832	19747	0.000104998	0.017324632
hsa-let-7d-3p	Endometrial cancer	47	52	13453	19747	0.000156267	0.02656537	hsa-miR-532-3p	Vascular smooth muscle contraction	77	116	9658	19747	0.00010465	0.017581228
hsa-miR-26a-5p	Colorectal cancer	79	86	15050	19747	0.000147364	0.02667296	hsa-miR-3150a-3p	B cell receptor signaling pathway	64	75	12942	19747	0.000101309	0.017729052
hsa-let-7d-5p	Fc gamma R mediated phagocytosis	96	97	17554	19747	0.000140639	0.026862066	hsa-miR-3150a-3p	Chronic myeloid leukemia	64	75	12942	19747	0.000101309	0.017729052
hsa-miR-99b-5p	Glioma	44	65	8827	19747	0.000151546	0.027126664	hsa-miR-129-5p	Endometrial cancer	50	52	15041	19747	0.000103131	0.01784161
hsa-let-7d-3p	Renal cell carcinoma	62	71	13453	19747	0.000161547	0.027463042	hsa-miR-3173-3p	Adherens junction	57	76	10610	19747	0.000107652	0.018085536
hsa-let-7d-3p	Insulin signaling pathway	114	139	13453	19747	0.000161893	0.027521756	hsa-miR-375	Cell adhesion molecules CAMs	94	133	10779	19747	0.000100939	0.018471879
hsa-miR-301b	Cell cycle	111	124	15093	19747	0.000157835	0.028094679	hsa-miR-382-3p	Glioma	35	65	6099	19747	9.77E-05	0.018662523
hsa-miR-181b-5p	Apoptosis	73	87	13039	19747	0.000153508	0.02824555	hsa-miR-637	B cell receptor signaling pathway	65	75	13290	19747	0.000106737	0.018679028
hsa-miR-221-5p	Hedgehog signaling pathway	51	56	13873	19747	0.000168714	0.028681315	hsa-miR-937-5p	Insulin signaling pathway	54	139	4832	19747	0.00011545	0.018933743
hsa-miR-146b-5p	ErbB signaling pathway	77	89	13741	19747	0.000163039	0.028688775	hsa-miR-937-5p	Melanoma	32	71	9632	19747	0.000117967	0.019307438
hsa-miR-151a-3p	Endocytosis	156	187	14207	19747	0.000163741	0.02881839	hsa-miR-532-3p	Apoptosis	60	87	4832	19747	0.000117572	0.01963452
hsa-miR-223-5p	Endocytosis	173	187	16441	19747	0.000158785	0.028898924	hsa-miR-3154	Focal adhesion	147	203	11820	19747	0.000119226	0.019672336
hsa-miR-125a-5p	Non small cell lung cancer	46	54	12239	19747	0.000168497	0.029150033	hsa-miR-676-5p	Acute myeloid leukemia	41	58	9088	19747	0.000123397	0.019866924
hsa-miR-151a-3p	Apoptosis	77	87	14207	19747	0.000167132	0.029415282	hsa-miR-3154	Phosphatidylinositol signaling system	61	76	11820	19747	0.00012165	0.020072195
hsa-miR-24-3p	Regulation of actin cytoskeleton	185	212	15270	19747	0.000164646	0.029471626	hsa-miR-3150a-3p	mTOR signaling pathway	47	53	12942	19747	0.000115951	0.020175557
hsa-miR-744-5p	MAPK signaling pathway	263	272	17959	19747	0.000158992	0.030208421	hsa-miR-4263	Apoptosis	54	87	8277	19747	0.000116375	0.020481931
hsa-miR-125a-5p	Phosphatidylinositol signaling system	62	76	12239	19747	0.000178306	0.030668704	hsa-miR-433-3p	Chronic myeloid leukemia	51	75	9123	19747	0.000110711	0.020592154
hsa-miR-26a-5p	Ubiquitin mediated proteolysis	119	134	15050	19747	0.000172185	0.030993221	hsa-miR-2278	Colorectal cancer	66	86	11306	19747	0.000124095	0.020847969
hsa-miR-221-3p	Adipocytokine signaling pathway	60	70	13035	19747	0.00017231	0.031015856	hsa-miR-2278	Prostate cancer	68	89	11306	19747	0.000125279	0.021046845
hsa-let-7d-3p	B cell receptor signaling pathway	65	75	13453	19747	0.000185712	0.031385261	hsa-miR-2278	Cell adhesion molecules CAMs	97	133	11306	19747	0.000125639	0.021107433
hsa-miR-146a-3p	MAPK signaling pathway	229	272	14839	19747	0.000187684	0.03153089	hsa-miR-937-5p	Regulation of actin cytoskeleton	76	212	4832	19747	0.000130689	0.021171555
hsa-miR-221-3p	T cell receptor signaling pathway	90	110	13035	19747	0.000177375	0.031927528	hsa-miR-937-3p	Calcium signaling pathway	63	178	4545	19747	0.000116734	0.021945942
hsa-miR-151a-3p	Adherens junction	68	76	14207	19747	0.000186187	0.032768926	hsa-miR-637	Wnt signaling pathway	123	152	13290	19747	0.000127213	0.022135018
hsa-miR-151a-5p	Adherens junction	71	76	15295	19747	0.00018016	0.03368986	hsa-miR-3173-3p	Calcium signaling pathway	120	178	10610	19747	0.000132649	0.022152374
hsa-miR-146a-5p	ErbB signaling pathway	77	89	13787	19747	0.00019344	0.034045491	hsa-miR-637	Hedgehog signaling pathway	50	56	13290	19747	0.000127553	0.02219425
hsa-miR-146b-5p	Focal adhesion	164	203	13741	19747	0.000196547	0.034199207	hsa-miR-375	Leukocyte transendothelial migration	83	116	10779	19747	0.000128263	0.023343919
hsa-miR-223-5p	Small cell lung cancer	81	84	16441	19747	0.000188936	0.034386391	hsa-miR-3661	Neurotrophin signaling pathway	74	129	8111	19747	0.000132486	0.023980405
hsa-miR-301b	Glioma	61	65	15093	19747	0.000193635	0.034466982	hsa-miR-937-5p	Natural killer cell mediated cytotoxicity	53	147	4832	19747	0.00015073	0.024162766
hsa-miR-652-3p	Focal adhesion	177	203	15230	19747	0.000196075	0.034509122	hsa-miR-129-5p	Colorectal cancer	79	86	15041	19747	0.000142322	0.024194675
hsa-miR-151a-5p	Axon guidance	116	129	15295	19747	0.000186797	0.034930957	hsa-miR-2278	Non small cell lung cancer	44	54	11306	19747	0.000147614	0.024651555
hsa-miR-27a-3p	Ubiquitin mediated proteolysis	115	134	14343	19747	0.000200911	0.034958519	hsa-miR-3661	Hedgehog signaling pathway						

hsa-miR-221-3p	Glioma	56	65	13035	19747	0.000212036	0.037954366	hsa-miR-937-3p	MAPK signaling pathway	89	272	4545	19747	0.000147695	0.027618936
hsa-miR-151a-3p	mTOR signaling pathway	49	53	14207	19747	0.000218006	0.038369054	hsa-miR-382-5p	Neurotrophin signaling pathway	89	129	10473	19747	0.000156583	0.028028283
hsa-miR-126-5p	Colorectal cancer	80	86	15467	19747	0.000207212	0.03916298	hsa-miR-1193	Focal adhesion	148	203	11973	19747	0.000156212	0.02811821
hsa-miR-146b-5p	T cell receptor signaling pathway	93	110	13741	19747	0.00022804	0.039450927	hsa-miR-1193	T cell receptor signaling pathway	85	110	11973	19747	0.000157858	0.02841442
hsa-miR-125a-5p	mTOR signaling pathway	45	53	12239	19747	0.000233519	0.039931828	hsa-miR-3691-5p	Chronic myeloid leukemia	53	75	9774	19747	0.000157788	0.028559671
hsa-miR-221-5p	B cell receptor signaling pathway	66	75	13873	19747	0.00024347	0.040416049	hsa-miR-3691-5p	Pancreatic cancer	53	75	9774	19747	0.000157788	0.028559671
hsa-miR-221-5p	Pancreatic cancer	66	75	13873	19747	0.00024347	0.040416049	hsa-miR-532-3p	Focal adhesion	125	203	9658	19747	0.000178654	0.029656596
hsa-miR-99b-5p	Small cell lung cancer	54	84	8827	19747	0.000229353	0.040595502	hsa-miR-676-5p	Calcium signaling pathway	106	178	9088	19747	0.000186563	0.029850021
hsa-miR-24-3p	Cell adhesion molecules CAMs	119	133	15270	19747	0.000232061	0.040842709	hsa-miR-4263	TGF beta signaling pathway	53	86	8277	19747	0.00017488	0.030254173
hsa-miR-151a-3p	Pancreatic cancer	67	75	14207	19747	0.000233019	0.041011429	hsa-miR-637	Colorectal cancer	73	86	13290	19747	0.000176598	0.030374852
hsa-miR-221-3p	Insulin signaling pathway	111	139	13035	19747	0.000230395	0.041240783	hsa-miR-532-3p	Hedgehog signaling pathway	41	56	9658	19747	0.000184323	0.030413213
hsa-miR-27a-3p	Cell adhesion molecules CAMs	114	133	14343	19747	0.000239067	0.041358534	hsa-miR-3154	T cell receptor signaling pathway	84	110	11820	19747	0.000191674	0.031051263
hsa-miR-151a-3p	MAPK signaling pathway	221	272	14207	19747	0.000236932	0.041699952	hsa-miR-937-5p	Fc gamma R mediated phagocytosis	40	97	4832	19747	0.000197506	0.03120589
hsa-miR-744-5p	Calcium signaling pathway	174	178	17959	19747	0.000222395	0.042032727	hsa-miR-532-3p	Long term potentiation	50	71	9658	19747	0.000190416	0.031418707
hsa-let-7d-3p	Apoptosis	74	87	13453	19747	0.000250314	0.042052702	hsa-miR-532-3p	Melanoma	50	71	9658	19747	0.000190416	0.031418707
hsa-miR-301b	Long term potentiation	66	71	15093	19747	0.000237833	0.042096523	hsa-miR-937-3p	ErbB signaling pathway	36	89	4545	19747	0.000176614	0.033026891
hsa-miR-301b	Renal cell carcinoma	66	71	15093	19747	0.000237833	0.042096523	hsa-miR-433-5p	Purine metabolism	36	158	2448	19747	0.000192831	0.033359803
hsa-miR-151a-5p	Melanogenesis	93	102	15295	19747	0.000233836	0.043493501	hsa-miR-129-5p	Small cell lung cancer	77	84	15041	19747	0.000208953	0.034895083
hsa-miR-27a-3p	Regulation of actin cytoskeleton	176	212	14343	19747	0.000251562	0.043520203	hsa-miR-4263	Non small cell lung cancer	36	54	8277	19747	0.000206953	0.035550509
hsa-miR-126-5p	Inositol phosphate metabolism	52	54	15467	19747	0.000230949	0.043649421	hsa-miR-4263	Melanoma	45	71	8277	19747	0.000211429	0.036154374
hsa-miR-146a-3p	mTOR signaling pathway	50	53	14839	19747	0.000265518	0.044076027	hsa-miR-676-5p	Fc epsilon RI signaling pathway	54	82	9088	19747	0.000223707	0.037694544
hsa-miR-27a-3p	Chemokine signaling pathway	158	189	14343	19747	0.00025902	0.044810521	hsa-miR-532-3p	mTOR signaling pathway	39	53	9658	19747	0.000221108	0.036482857
hsa-miR-27a-3p	Renal cell carcinoma	64	71	14343	19747	0.000266426	0.046091732	hsa-miR-676-5p	Melanogenesis	65	102	9088	19747	0.000232997	0.037046497
hsa-miR-744-5p	Pathways in cancer	317	330	17959	19747	0.000246035	0.046500661	hsa-miR-382-5p	Cell adhesion molecules CAMs	91	133	10473	19747	0.000211394	0.037205257
hsa-miR-181b-5p	Vascular smooth muscle contraction	94	116	13039	19747	0.000259507	0.047230308	hsa-miR-3173-3p	Renal cell carcinoma	53	71	10610	19747	0.000229691	0.037439705
hsa-miR-146a-5p	T cell receptor signaling pathway	93	110	13787	19747	0.000275154	0.04760158	hsa-miR-676-5p	Testosterone regulated sodium reabsorpti	31	42	9088	19747	0.000237073	0.037694544
hsa-miR-151a-5p	Cell adhesion molecules CAMs	119	133	15295	19747	0.000261927	0.048456507	hsa-miR-2278	Chemokine signaling pathway	132	189	11306	19747	0.000234353	0.038902564
hsa-miR-99b-3p	Chronic myeloid leukemia	63	75	12919	19747	0.000277486	0.048703987	hsa-miR-433-3p	Apoptosis	57	87	9123	19747	0.00021422	0.03898802
hsa-miR-652-5p	Endometrial cancer	35	52	8443	19747	0.000301921	0.048911122	hsa-miR-433-5p	Adipocytokine signaling pathway	20	70	2448	19747	0.000229584	0.039488478
hsa-miR-99b-3p	Insulin signaling pathway	110	139	12919	19747	0.000283985	0.049697352	hsa-miR-129-5p	Melanogenesis	92	102	15041	19747	0.000241231	0.040044294
hsa-miR-27a-3p	Fc gamma R mediated phagocytosis	85	97	14343	19747	0.000297444	0.05116033	hsa-miR-608	Melanogenesis	90	102	14514	19747	0.000223182	0.040172773
hsa-miR-99b-3p	Calcium signaling pathway	138	178	12919	19747	0.000292822	0.051243934	hsa-miR-433-5p	Glioma	19	65	2448	19747	0.000235899	0.040338809
hsa-miR-652-3p	Glioma	61	65	15230	19747	0.000301199	0.052107344	hsa-miR-608	Bladder cancer	41	43	14514	19747	0.000235572	0.042403043
hsa-miR-223-5p	Acute myeloid leukemia	57	58	16441	19747	0.000302946	0.053924363	hsa-miR-637	Adherens junction	65	76	13290	19747	0.00025208	0.042853615
hsa-miR-26a-5p	Amyotrophic lateral sclerosis ALS	52	55	15050	19747	0.000307759	0.054473282	hsa-miR-937-5p	ErbB signaling pathway	37	89	4832	19747	0.0002779	0.043074457
hsa-miR-223-5p	Axon guidance	121	129	16441	19747	0.000309265	0.055049239	hsa-miR-382-5p	Pancreatic cancer	55	75	10473	19747	0.000247779	0.043361394
hsa-miR-151a-3p	Small cell lung cancer	74	84	14207	19747	0.000316009	0.055301633	hsa-miR-382-3p	Insulin signaling pathway	63	139	6099	19747	0.000232295	0.043903832
hsa-miR-744-5p	Ubiquitin mediated proteolysis	132	134	17959	19747	0.000298014	0.056026663	hsa-miR-3691-5p	Colorectal cancer	59	86	9774	19747	0.000252987	0.044778742
hsa-miR-151a-3p	Prostate cancer	78	89	14207	19747	0.000320744	0.056130147	hsa-miR-4263	Calcium signaling pathway	98	178	8277	19747	0.000263873	0.044858476
hsa-miR-151a-5p	Apoptosis	80	87	15295	19747	0.000312401	0.057481703	hsa-miR-3661	Cell adhesion molecules CAMs	75	133	8111	19747	0.000250127	0.045022915
hsa-miR-301b	Prostate cancer	81	89	15093	19747	0.000328784	0.057537209	hsa-miR-2278	Glioma	51	65	11306	19747	0.000276131	0.045561651
hsa-miR-301b	ErbB signaling pathway	81	89	15093	19747	0.000328784	0.057537209	hsa-miR-129-5p	Adherens junction	70	76	15041	19747	0.000279045	0.046042424
hsa-miR-146b-5p	Endometrial cancer	47	52	13741	19747	0.000341104	0.057987764	hsa-miR-1193	Chronic myeloid leukemia	60	75	11973	19747	0.000270913	0.047409807
hsa-let-7d-3p	Non small cell lung cancer	48	54	13453	19747	0.000353853	0.058739604	hsa-miR-433-5p	al cell signaling in Helicobacter pylori i	20	71	2448	19747	0.000282827	0.047515007
hsa-let-7d-5p	p53 signaling pathway	68	68	17554	19747	0.000329021	0.060210854	hsa-miR-1193	Inositol phosphate metabolism	45	54	11973	19747	0.000277613	0.048582308
hsa-miR-99b-5p	Non small cell lung cancer	37	54	8827	19747	0.000345941	0.060885594	hsa-miR-433-5p	Pyrimidine metabolism	25	98	2448	19747	0.000291985	0.049053534
hsa-miR-301b	Focal adhesion	175	203	15093	19747	0.00035395	0.061587224	hsa-miR-3173-3p	Hedgehog signaling pathway	43	56	10610	19747	0.000308905	0.049733714
hsa-miR-146b-5p	Axon guidance	107	129	13741	19747	0.000376691	0.064037553	hsa-miR-2278	Endometrial cancer	42	52	11306	19747	0.000303591	0.049788951
hsa-miR-146a-3p	Prostate cancer	80	89	14839	19747	0.00038922	0.06409137	hsa-miR-382-5p	Acute myeloid leukemia	44	58	10473	19747	0.000289866	0.050436767
hsa-miR-652-3p	Renal cell carcinoma	66	71	15230	19747	0.000376416	0.064743494	hsa-miR-3150a-3p	Pancreatic cancer	63	75	12942	19747	0.000298883	0.050511151
hsa-miR-99b-3p	Ubiquitin mediated proteolysis	106	134	12919	19747	0.000374643	0.064813201	hsa-miR-3154	ErbB signaling pathway	69	89	11820	19747	0.000232221	0.051233066
hsa-miR-146a-3p	Acute myeloid leukemia	54	58	14839	19747	0.000399798	0.065566944	hsa-miR-375	Chondroitin sulfate biosynthesis	20	22	10779	19747	0.00029264	0.052675272
hsa-miR-146a-5p	Endometrial cancer	47	52	13787	19747	0.000385316	0.065888998	hsa-miR-3173-3p	Prostate cancer	64	89	10610	19747	0.000326247	0.053556148
hsa-miR-26a-5p	Neurotrophin signaling pathway	114	129	15050	19747	0.000377789	0.066868615	hsa-miR-637	Chronic myeloid leukemia	64	75	13290	19747	0.000322916	0.054249937
hsa-miR-652-5p	Glycosphingolipid biosynthesis lacto and neolacto series	20	26	8443	19747	0.000420362	0.067257931	hsa-miR-3150a-3p	Calcium signaling pathway	138	178	12942	19747	0.000329106	0.055618925
hsa-miR-26a-5p	Non small cell lung cancer	51	54	15050	19747	0.000383425	0.067866282	hsa-miR-4263	mTOR signaling pathway	35	53	8277	19747	0.000334101	0.05646302
hsa-miR-146b-5p	Renal cell carcinoma	62	71	13741	19747	0.000406053	0.068622954	hsa-miR-382-3p	Ascorbate and aldarate metabolism	17	26	6099	19747	0.000300371	0.056770199
hsa-let-7d-3p	Ubiquitin mediated proteolysis	109	134	13453	19747	0.000419978	0.069296392	hsa-miR-3154	Endometrial cancer	43	52	11820	19747	0.000360128	0.057260284
hsa-miR-27a-3p	Endometrial cancer	48	52	14343	19747	0.000406347	0.069485305	hsa-miR-2278	Acute myeloid leukemia	46	58	11306	19747	0.000350177	0.057428974
hsa-miR-221-3p	Renal cell carcinoma	60	71	13035	19747	0.000395551	0.069617061	hsa-miR-3154	Neurotrophin signaling pathway	96	129	11820	19747	0.000362277	0.057601993
hsa-miR-221-3p	Long term potentiation	60	71	13035	19747	0.000395551	0.069617061	hsa-miR-375	T cell receptor signaling pathway	78	110	10779	19747	0.000323382	0.058208837
hsa-miR-223-3p	Cell adhesion molecules CAMs	122	133	15956	19747	0.000375618	0.070616146	hsa-miR-937-5p	Inositol phosphate metabolism	25	54	4832	19747	0.000385046	0.059278083
hsa-miR-181b-5p	Long term potentiation	60	71	13039	19747	0.000400451	0.072481579	hsa-miR-129-5p	p53 signaling pathway	63	68	15041	19747	0.000366574	0.059385001
hsa-miR-27a-3p	T cell receptor signaling pathway	95	110	14343	19747	0.000438984	0.074627245	hsa-miR-937-5p	Chronic myeloid leukemia	32	75	4832	19747	0.000403078	0.061670892
hsa-miR-146b-5p	Prostate cancer	76	89	13741	19747	0.00044472	0.075157742	hsa-miR-937-5p	Pancreatic cancer	32	75	4832	19747	0.000403078	0.061670892
hsa-miR-223-3p	p53 signaling pathway	65													

hsa-miR-146a-5p	Focal adhesion	163	203	13787	19747	0.000471182	0.079629754	hsa-miR-532-3p	Inositol phosphate metabolism	39	54	9658	19747	0.000420993	0.067358842
hsa-miR-24-3p	Hedgehog signaling pathway	53	56	15270	19747	0.000467347	0.079916267	hsa-miR-1193	Apoptosis	68	87	11973	19747	0.000390191	0.067503055
hsa-miR-652-3p	Insulin signaling pathway	123	139	15230	19747	0.00046754	0.079949378	hsa-miR-3154	Leukocyte transendothelial migration	87	116	11820	19747	0.000434108	0.068589113
hsa-let-7d-3p	Melanoma	61	71	13453	19747	0.000495355	0.081238212	hsa-miR-3154	Glioma	52	65	11820	19747	0.000447394	0.07024091
hsa-miR-99b-5p	Insulin signaling pathway	82	139	8827	19747	0.000474149	0.082502002	hsa-miR-433-3p	Calcium signaling pathway	105	178	9123	19747	0.000390923	0.070366077
hsa-let-7d-3p	Cell adhesion molecules CAMs	108	133	13453	19747	0.000505879	0.08296416	hsa-miR-3691-5p	Apoptosis	59	87	9774	19747	0.000408413	0.071472312
hsa-miR-744-5p	Axon guidance	127	129	17959	19747	0.000447621	0.083705047	hsa-miR-3154	Dilated cardiomyopathy	72	94	11820	19747	0.000461007	0.072378095
hsa-miR-125a-5p	Leukocyte transendothelial migration	89	116	12239	19747	0.000510506	0.083722948	hsa-miR-937-5p	Focal adhesion	71	203	4832	19747	0.000485443	0.073787394
hsa-miR-125a-5p	Colorectal cancer	68	86	12239	19747	0.000516433	0.084694974	hsa-miR-676-5p	Melanoma	47	71	9088	19747	0.000474926	0.074088461
hsa-miR-99b-5p	Leukocyte transendothelial migration	70	116	8827	19747	0.000489911	0.085244504	hsa-miR-382-5p	Phosphatidylinositol signaling system	55	76	10473	19747	0.000435113	0.074404288
hsa-miR-26a-5p	T cell receptor signaling pathway	98	110	15050	19747	0.000488666	0.085516501	hsa-miR-637	Testosterone regulated sodium reabsorpti	38	42	13290	19747	0.000460456	0.075054346
hsa-miR-26a-5p	Cell adhesion molecules CAMs	117	133	15050	19747	0.000489108	0.08559385	hsa-miR-937-3p	Adherens junction	31	76	4545	19747	0.000406503	0.075230357
hsa-miR-151a-5p	Neurotrophin signaling pathway	115	129	15295	19747	0.000475206	0.086487466	hsa-miR-608	Insulin signaling pathway	119	139	14514	19747	0.00043752	0.075690965
hsa-miR-652-3p	Regulation of actin cytoskeleton	183	212	15230	19747	0.00051276	0.08716925	hsa-miR-3154	Acute myeloid leukemia	47	58	11820	19747	0.000484529	0.076071087
hsa-miR-99b-5p	Long term potentiation	46	71	8827	19747	0.000504954	0.087357062	hsa-miR-3173-3p	Regulation of actin cytoskeleton	138	212	10610	19747	0.00048897	0.077257193
hsa-miR-146a-5p	Prostate cancer	76	89	13787	19747	0.000522229	0.087734507	hsa-miR-382-5p	Glioma	48	65	10473	19747	0.000464181	0.078910801
hsa-miR-125a-5p	Glycosphingolipid biosynthesis lacto and neolacto series	24	26	12239	19747	0.000548733	0.089443473	hsa-miR-3691-5p	ErbB signaling pathway	60	89	9774	19747	0.00046633	0.0811141464
hsa-miR-652-3p	Phosphatidylinositol signaling system	70	76	15230	19747	0.000533226	0.090648344	hsa-miR-3691-5p	Prostate cancer	60	89	9774	19747	0.00046633	0.0811141464
hsa-miR-181b-5p	Colorectal cancer	71	86	13039	19747	0.000510764	0.090915957	hsa-miR-129-5p	Focal adhesion	174	203	15041	19747	0.000513156	0.08210497
hsa-miR-652-3p	Prostate cancer	81	89	15230	19747	0.00054778	0.09312267	hsa-miR-937-5p	Long term depression	31	73	4832	19747	0.000544004	0.082688638
hsa-miR-146a-3p	Focal adhesion	172	203	14839	19747	0.000599812	0.096569661	hsa-miR-2278	Leukocyte transendothelial migration	84	116	11306	19747	0.00051528	0.082867473
hsa-miR-652-5p	Keratan sulfate biosynthesis	13	15	8443	19747	0.000607988	0.096670164	hsa-miR-433-5p	Calcium signaling pathway	38	178	2448	19747	0.000519112	0.084077318
hsa-miR-652-5p	Phosphatidylinositol signaling system	47	76	8443	19747	0.00060935	0.096886585	hsa-miR-532-3p	Dorso ventral axis formation	20	24	9658	19747	0.000533004	0.084214642
hsa-miR-223-5p	Cell cycle	116	124	16441	19747	0.000570618	0.098146362	hsa-miR-2278	Apoptosis	65	87	11306	19747	0.000532085	0.085844345
hsa-miR-301b	T cell receptor signaling pathway	98	110	15093	19747	0.000583053	0.099702079	hsa-miR-1193	Colorectal cancer	67	86	11973	19747	0.000508379	0.086932894
hsa-miR-652-5p	VEGF signaling pathway	48	78	8443	19747	0.000628283	0.09989706	hsa-miR-4263	Neurotrophin signaling pathway	73	129	8277	19747	0.000531143	0.08763865
hsa-let-7d-5p	Small cell lung cancer	83	84	17554	19747	0.000573115	0.102014542	hsa-miR-4263	B cell receptor signaling pathway	46	75	8277	19747	0.000534225	0.088147171
hsa-miR-221-5p	Leukocyte transendothelial migration	97	116	13873	19747	0.000662745	0.106701873	hsa-miR-2278	VEGF signaling pathway	59	78	11306	19747	0.000551202	0.088743469
hsa-let-7d-5p	Cell adhesion molecules CAMs	129	133	17554	19747	0.000605749	0.107823241	hsa-miR-3150a-3p	Focal adhesion	155	203	12942	19747	0.000532131	0.088865819
hsa-miR-652-3p	Pancreatic cancer	69	75	15230	19747	0.000640346	0.10821846	hsa-miR-2278	B cell receptor signaling pathway	57	75	11306	19747	0.000553032	0.089038096
hsa-miR-652-3p	Chronic myeloid leukemia	69	75	15230	19747	0.000640346	0.10821846	hsa-miR-433-3p	Amyotrophic lateral sclerosis ALS	38	55	9123	19747	0.000500512	0.089091123
hsa-miR-125a-5p	Calcium signaling pathway	131	178	12239	19747	0.000685376	0.110345529	hsa-miR-3691-5p	T cell receptor signaling pathway	72	110	9774	19747	0.000514353	0.089497422
hsa-miR-146b-5p	Endocytosis	150	187	13741	19747	0.000673962	0.112037554	hsa-miR-608	Metabolic pathways	805	1091	14514	19747	0.000537536	0.090305999
hsa-miR-652-3p	p53 signaling pathway	63	68	15230	19747	0.000667236	0.112095656	hsa-miR-1193	Endometrial cancer	43	52	11973	19747	0.000532497	0.090524489
hsa-miR-27a-5p	Apoptosis	87	87	18134	19747	0.000592933	0.112657236	hsa-miR-129-5p	Fc gamma R mediated phagocytosis	87	97	15041	19747	0.000572693	0.09105824
hsa-let-7d-5p	Chemokine signaling pathway	181	189	17554	19747	0.000640963	0.113450513	hsa-miR-4263	MAPK signaling pathway	141	272	8277	19747	0.000564508	0.093143816
hsa-let-7d-3p	Glioma	56	65	13453	19747	0.000726501	0.118419616	hsa-miR-375	Adipocytokine signaling pathway	52	70	10779	19747	0.000536423	0.093337565
hsa-miR-24-3p	Non small cell lung cancer	51	54	15270	19747	0.000705559	0.119239443	hsa-miR-433-3p	Melanoma	47	71	9123	19747	0.000528442	0.094062697
hsa-miR-26a-5p	Glioma	60	65	15050	19747	0.000686393	0.11943239	hsa-miR-3150a-3p	Endometrial cancer	45	52	12942	19747	0.000579451	0.09618882
hsa-miR-26a-5p	Small cell lung cancer	76	84	15050	19747	0.000690877	0.120212535	hsa-miR-637	Prostate cancer	74	89	13290	19747	0.000601917	0.096306782
hsa-miR-223-5p	B cell receptor signaling pathway	72	75	16441	19747	0.000717066	0.121901255	hsa-miR-4263	Prostate cancer	53	89	8277	19747	0.000585438	0.09659727
hsa-miR-146a-3p	Basal cell carcinoma	51	55	14839	19747	0.000769512	0.122352367	hsa-miR-433-5p	Non small cell lung cancer	16	54	2448	19747	0.000607004	0.097120698
hsa-miR-744-3p	Ubiquitin mediated proteolysis	125	134	16506	19747	0.000688267	0.1225115	hsa-miR-637	Focal adhesion	158	203	13290	19747	0.000608506	0.097360948
hsa-miR-24-3p	B cell receptor signaling pathway	69	75	15270	19747	0.000730686	0.123485875	hsa-miR-1193	MAPK signaling pathway	191	272	11973	19747	0.000581314	0.098823321
hsa-miR-146b-5p	Non small cell lung cancer	48	54	13741	19747	0.00075587	0.123962745	hsa-miR-937-5p	Keratan sulfate biosynthesis	10	15	4832	19747	0.000658226	0.093932124
hsa-miR-151a-5p	Prostate cancer	81	89	15295	19747	0.000694783	0.125755689	hsa-miR-3173-3p	Phosphatidylinositol signaling system	55	76	10610	19747	0.000663573	0.09517346
hsa-miR-99b-3p	B cell receptor signaling pathway	62	75	12919	19747	0.000749908	0.125984581	hsa-miR-3173-3p	Small cell lung cancer	60	84	10610	19747	0.000673059	0.094997225
hsa-miR-223-5p	Insulin signaling pathway	129	139	16441	19747	0.000758507	0.128946147	hsa-miR-676-5p	Inositol phosphate metabolism	37	54	9088	19747	0.000694193	0.106905777
hsa-miR-652-3p	Apoptosis	79	87	15230	19747	0.000771134	0.129550574	hsa-miR-3691-5p	Lysosome	78	121	9774	19747	0.000619322	0.107142774
hsa-let-7d-5p	Endocytosis	179	187	17554	19747	0.000748615	0.131007574	hsa-miR-676-5p	Cell adhesion molecules CAMs	80	133	9088	19747	0.000711303	0.108829364
hsa-miR-146b-5p	p53 signaling pathway	59	68	13741	19747	0.000816472	0.133197587	hsa-miR-937-5p	Renal cell carcinoma	30	71	4832	19747	0.000733725	0.110058689
hsa-miR-151a-5p	Regulation of actin cytoskeleton	183	212	15295	19747	0.000750462	0.13508321	hsa-miR-637	Phosphatidylinositol signaling system	64	76	13290	19747	0.000700709	0.110712079
hsa-miR-27a-3p	Lysosome	103	121	14343	19747	0.000813858	0.135914248	hsa-miR-3154	Hypertrophic cardiomyopathy HCM	66	86	11820	19747	0.000716395	0.11041253
hsa-miR-146b-5p	TGF beta signaling pathway	73	86	13741	19747	0.000837732	0.136550394	hsa-miR-637	Vascular smooth muscle contraction	94	116	13290	19747	0.000706129	0.111568348
hsa-miR-99b-5p	Apoptosis	54	87	8827	19747	0.000814709	0.136871034	hsa-miR-937-5p	p53 signaling pathway	29	68	4832	19747	0.000745651	0.111847677
hsa-miR-146a-5p	Endocytosis	150	187	13787	19747	0.000848998	0.138386636	hsa-miR-129-5p	Long term potentiation	65	71	15041	19747	0.000733278	0.115857882
hsa-miR-744-3p	Adherens junction	73	76	16506	19747	0.000782822	0.138559453	hsa-miR-532-3p	Small cell lung cancer	56	84	9658	19747	0.000749348	0.116898243
hsa-miR-744-3p	Phosphatidylinositol signaling system	73	76	16506	19747	0.000782822	0.138559453	hsa-miR-2278	al cell signaling in Helicobacter pylori i	54	71	11306	19747	0.000745344	0.117764429
hsa-miR-146a-5p	Non small cell lung cancer	48	54	13787	19747	0.000850721	0.138667493	hsa-miR-3150a-3p	Apoptosis	71	87	12942	19747	0.000718635	0.117856097
hsa-miR-652-5p	Inositol phosphate metabolism	35	54	8443	19747	0.000880931	0.139187027	hsa-miR-3150a-3p	Melanogenesis	82	102	12942	19747	0.00072148	0.118322736
hsa-miR-221-3p	Phosphatidylinositol signaling system	63	76	13035	19747	0.000836759	0.141412353	hsa-miR-3661	Glioma	40	65	8111	19747	0.000682711	0.118791765
hsa-miR-652-5p	B cell receptor signaling pathway	46	75	8443	19747	0.000896383	0.141628529	hsa-miR-433-3p	Colorectal cancer	55	86	9123	19747	0.00067596	0.118968932
hsa-miR-27a-3p	Epithelial cell signaling in Helicobacter pylori infection	63	71	14343	19747	0.000854746	0.141887862	hsa-miR-433-3p	Fc gamma R mediated phagocytosis	61	97	9123	19747	0.000677162	0.11918055
hsa-miR-27a-3p	Focal adhesion	167	203	14343	19747	0.00086564	0.143696263	hsa-miR-532-3p	Basal cell carcinoma	39	55	9658	19747	0.000766091	0.119510234
hsa-miR-301b	Epithelial cell signaling in Helicobacter pylori infection	65	71	15093	19747	0.000863254	0.144163361	hsa-miR-3691-5p	NOD like receptor signaling pathway	46	66	9774	19747	0.000690852	0.119517381</

hsa-miR-744-5p	Regulation of actin cytoskeleton	205	212	17959	19747	0.000857753	0.156968844	hsa-miR-608	lycine serine and threonine metabolis	30	31	14514	19747	0.000866043	0.1359687
hsa-miR-146a-5p	Neurotrophin signaling pathway	106	129	13787	19747	0.000969109	0.156995671	hsa-miR-937-5p	losterone regulated sodium reabsorpt	20	42	4832	19747	0.000928753	0.136526661
hsa-miR-146a-5p	TGF beta signaling pathway	73	86	13787	19747	0.000974196	0.157819677	hsa-miR-676-5p	Apoptosis	55	87	9088	19747	0.00090837	0.138072174
hsa-miR-744-3p	B cell receptor signaling pathway	72	75	16506	19747	0.000902748	0.158883651	hsa-miR-532-3p	losterone regulated sodium reabsorpt	31	42	9658	19747	0.000896237	0.138916784
hsa-miR-24-3p	Focal adhesion	175	203	15270	19747	0.00097336	0.159630969	hsa-miR-3154	Hedgehog signaling pathway	45	56	11820	19747	0.000903641	0.139160787
hsa-miR-744-5p	Arrhythmogenic right ventricular cardiomyopathy ARVC	74	74	17959	19747	0.000878752	0.160811564	hsa-miR-637	Acute myeloid leukemia	50	58	13290	19747	0.000894629	0.139562186
hsa-miR-125a-5p	Endometrial cancer	43	52	12239	19747	0.001026556	0.161169265	hsa-miR-3173-3p	Tight junction	89	132	10610	19747	0.000921023	0.140433233
hsa-miR-221-5p	VEGF signaling pathway	67	78	13873	19747	0.001028778	0.162546912	hsa-miR-382-5p	T cell receptor signaling pathway	75	110	10473	19747	0.00086177	0.143053798
hsa-miR-125a-5p	Vascular smooth muscle contraction	88	116	12239	19747	0.001041724	0.163550695	hsa-miR-3661	T cell receptor signaling pathway	62	110	8111	19747	0.000839733	0.145273744
hsa-miR-146a-3p	Notch signaling pathway	44	47	14839	19747	0.001050217	0.16383384	hsa-miR-4263	Insulin signaling pathway	77	139	8277	19747	0.000897009	0.146212502
hsa-miR-26a-5p	Phosphatidylinositol signaling system	69	76	15050	19747	0.000959929	0.165107744	hsa-miR-608	Prostate cancer	78	89	14514	19747	0.000948206	0.146971995
hsa-miR-26a-5p	Adherens junction	69	76	15050	19747	0.000959929	0.165107744	hsa-miR-608	ErbB signaling pathway	78	89	14514	19747	0.000948206	0.146971995
hsa-miR-24-3p	Wnt signaling pathway	133	152	15270	19747	0.001038009	0.169195449	hsa-miR-3691-5p	Axon guidance	82	129	9774	19747	0.000863617	0.147678517
hsa-miR-27a-3p	Neurotrophin signaling pathway	109	129	14343	19747	0.001032927	0.17043299	hsa-miR-3173-3p	Heparan sulfate biosynthesis	22	26	10610	19747	0.000975335	0.14825088
hsa-miR-24-3p	Endometrial cancer	49	52	15270	19747	0.001061235	0.17298126	hsa-miR-2278	Phosphatidylinositol signaling system	57	76	11306	19747	0.000981783	0.152176304
hsa-miR-221-5p	Long term potentiation	63	73	13873	19747	0.001113093	0.174755557	hsa-miR-3154	Regulation of actin cytoskeleton	149	212	11820	19747	0.000991286	0.152658035
hsa-miR-221-3p	B cell receptor signaling pathway	62	75	13035	19747	0.001061109	0.177205272	hsa-miR-382-5p	Fc gamma R mediated phagocytosis	67	97	10473	19747	0.000929845	0.153424352
hsa-miR-27a-3p	Pancreatic cancer	66	75	14343	19747	0.001095073	0.179591893	hsa-miR-382-5p	Focal adhesion	130	203	10473	19747	0.000935185	0.15430557
hsa-miR-24-3p	Ubiquitin mediated proteolysis	118	134	15270	19747	0.001134906	0.183854798	hsa-miR-382-5p	Endometrial cancer	39	52	10473	19747	0.000943354	0.155653492
hsa-miR-126-5p	Axon guidance	115	129	15467	19747	0.001026438	0.186811765	hsa-miR-382-5p	MAPK signaling pathway	170	272	10473	19747	0.000946197	0.156122529
hsa-miR-221-5p	Ubiquitin mediated proteolysis	110	134	13873	19747	0.001199665	0.187147769	hsa-miR-375	Long term potentiation	52	71	10779	19747	0.000944087	0.158606573
hsa-miR-181b-5p	Renal cell carcinoma	59	71	13039	19747	0.001090087	0.187494987	hsa-miR-433-5p	ErbB signaling pathway	22	89	2448	19747	0.001035998	0.159543658
hsa-miR-99b-5p	Renal cell carcinoma	45	71	8827	19747	0.001156617	0.18852862	hsa-miR-433-3p	Glioma	43	65	9123	19747	0.000919465	0.15998689
hsa-miR-652-5p	p53 signaling pathway	42	68	8443	19747	0.00120941	0.189877437	hsa-miR-3150a-3p	Cell adhesion molecules CAMs	104	133	12942	19747	0.001003938	0.161634057
hsa-miR-652-3p	Heparan sulfate biosynthesis	26	26	15230	19747	0.001161572	0.19165941	hsa-miR-3691-5p	Adipocytokine signaling pathway	48	70	9774	19747	0.000945703	0.161715259
hsa-miR-221-5p	Glycosphingolipid biosynthesis lacto and neolacto series	25	26	13873	19747	0.00123193	0.191803608	hsa-miR-3154	B cell receptor signaling pathway	58	75	11820	19747	0.001064412	0.163706788
hsa-miR-24-3p	Leukocyte transendothelial migration	103	116	15270	19747	0.001185137	0.191992222	hsa-miR-129-5p	losterone regulated sodium reabsorpt	40	42	15041	19747	0.001056422	0.163745384
hsa-miR-146b-5p	Insulin signaling pathway	113	139	13741	19747	0.001201448	0.19223167	hsa-miR-433-3p	Endocytosis	108	187	9123	19747	0.000946091	0.164619842
hsa-miR-146a-3p	Renal cell carcinoma	64	71	14839	19747	0.001261414	0.195519159	hsa-miR-637	T cell receptor signaling pathway	89	110	13290	19747	0.001069203	0.164657312
hsa-miR-146a-3p	Long term potentiation	64	71	14839	19747	0.001261414	0.195519159	hsa-miR-382-5p	Prostate cancer	62	89	10473	19747	0.001011094	0.165819406
hsa-miR-26a-5p	Pancreatic cancer	68	75	15050	19747	0.001150923	0.196807774	hsa-miR-129-5p	Hedgehog signaling pathway	52	56	15041	19747	0.001073953	0.166462689
hsa-miR-26a-5p	Chronic myeloid leukemia	68	75	15050	19747	0.001150923	0.196807774	hsa-miR-4263	losterone regulated sodium reabsorpt	28	42	8277	19747	0.001039677	0.168427656
hsa-miR-125a-5p	Prostate cancer	69	89	12239	19747	0.001286863	0.199463703	hsa-miR-129-5p	Type II diabetes mellitus	46	49	15041	19747	0.001108929	0.171883947
hsa-let-7d-5p	T cell receptor signaling pathway	107	110	17554	19747	0.001230744	0.207995718	hsa-miR-382-3p	Small cell lung cancer	40	84	6099	19747	0.000943197	0.17198387
hsa-miR-221-5p	mTOR signaling pathway	47	53	13873	19747	0.001350164	0.209275476	hsa-miR-129-5p	Vascular smooth muscle contraction	102	116	15041	19747	0.001115542	0.172909007
hsa-miR-652-3p	Small cell lung cancer	76	84	15230	19747	0.001278144	0.209615588	hsa-miR-129-5p	Pancreatic cancer	68	75	15041	19747	0.00111873	0.173403121
hsa-miR-181b-5p	Ubiquitin mediated proteolysis	105	134	13039	19747	0.001228457	0.211294568	hsa-miR-3150a-3p	Acute myeloid leukemia	41	58	12942	19747	0.001084708	0.173553343
hsa-miR-27a-5p	Regulation of actin cytoskeleton	206	212	18134	19747	0.001139494	0.211945937	hsa-miR-937-5p	Adherens junction	39	76	4832	19747	0.001222446	0.174809731
hsa-miR-24-3p	Glioma	60	65	15270	19747	0.001317358	0.212094573	hsa-miR-3661	Colorectal cancer	50	86	8111	19747	0.001020274	0.175487168
hsa-miR-99b-3p	mTOR signaling pathway	45	53	12919	19747	0.001322589	0.215581956	hsa-miR-433-5p	Keratan sulfate biosynthesis	7	15	2448	19747	0.001157408	0.177083358
hsa-miR-126-5p	Non small cell lung cancer	51	54	15467	19747	0.001201144	0.216205959	hsa-miR-637	Lysosome	97	121	13290	19747	0.001181664	0.180794517
hsa-let-7d-3p	Long term potentiation	60	71	13453	19747	0.001363899	0.218223804	hsa-miR-1193	Adipocytokine signaling pathway	55	70	11973	19747	0.00110386	0.182136891
hsa-miR-24-3p	Calcium signaling pathway	154	178	15270	19747	0.001365674	0.218507909	hsa-miR-129-5p	T cell receptor signaling pathway	97	110	15041	19747	0.001176905	0.182420237
hsa-miR-27a-3p	ErbB signaling pathway	77	89	14343	19747	0.001358085	0.220009812	hsa-miR-937-5p	Toll like receptor signaling pathway	40	105	4832	19747	0.001300345	0.185398907
hsa-miR-151a-5p	Ubiquitin mediated proteolysis	118	134	15295	19747	0.00126586	0.220259625	hsa-miR-937-5p	Prostate cancer	35	89	4832	19747	0.001332407	0.189201818
hsa-miR-652-5p	TGF beta signaling pathway	51	86	8443	19747	0.001438056	0.224336779	hsa-miR-3154	Apoptosis	66	87	11820	19747	0.001237579	0.189349637
hsa-miR-151a-5p	MAPK signaling pathway	231	272	15295	19747	0.00129635	0.225564852	hsa-miR-129-5p	Tight junction	115	132	15041	19747	0.001230134	0.18940625
hsa-miR-151a-3p	T cell receptor signaling pathway	93	110	14207	19747	0.001397989	0.226474169	hsa-miR-4263	Focal adhesion	107	203	8277	19747	0.001180533	0.191246292
hsa-miR-744-5p	Vascular smooth muscle contraction	114	116	17959	19747	0.001272281	0.227738237	hsa-miR-2278	Calcium signaling pathway	122	178	11306	19747	0.001254059	0.191871076
hsa-miR-146a-5p	Insulin signaling pathway	113	139	13787	19747	0.001451614	0.227903365	hsa-miR-532-3p	Dilated cardiomyopathy	61	94	9658	19747	0.001263974	0.194651923
hsa-miR-126-5p	ErbB signaling pathway	81	89	15467	19747	0.001285059	0.230025521	hsa-miR-937-5p	N Glycan biosynthesis	21	46	4832	19747	0.001378759	0.196583838
hsa-miR-146b-5p	Adipocytokine signaling pathway	60	70	13741	19747	0.001455876	0.230028383	hsa-miR-1193	ErbB signaling pathway	68	89	11973	19747	0.001216145	0.199447746
hsa-miR-24-3p	Small cell lung cancer	76	84	15270	19747	0.00146119	0.233790435	hsa-miR-937-5p	Endometrial cancer	23	52	4832	19747	0.001412739	0.20060899
hsa-miR-146b-5p	Hedgehog signaling pathway	49	56	13741	19747	0.001513835	0.237672138	hsa-miR-433-5p	Melanogenesis	24	102	2448	19747	0.001320467	0.200710914
hsa-miR-221-3p	Cell adhesion molecules CAMs	104	133	13035	19747	0.00145026	0.23929296	hsa-miR-382-5p	Non small cell lung cancer	40	54	10473	19747	0.001234095	0.201157504
hsa-miR-223-5p	Cell adhesion molecules CAMs	123	133	16441	19747	0.001486506	0.239327392	hsa-miR-676-5p	ogestosterone mediated oocyte maturati	55	88	9088	19747	0.001344675	0.201701186
hsa-let-7d-3p	Thyroid cancer	27	29	13453	19747	0.001507625	0.239712369	hsa-miR-4263	Ubiquitin mediated proteolysis	74	134	8277	19747	0.00125427	0.201937428
hsa-miR-151a-5p	Glioma	60	65	15295	19747	0.00141666	0.245082175	hsa-miR-3173-3p	Melanoma	51	71	10610	19747	0.001360182	0.202667127
hsa-miR-744-3p	Calcium signaling pathway	163	178	16506	19747	0.001409276	0.245213983	hsa-miR-937-3p	cosphingolipid biosynthesis globo se	9	14	4545	19747	0.001140021	0.202957353
hsa-miR-151a-3p	TGF beta signaling pathway	74	86	14207	19747	0.001525605	0.245622338	hsa-miR-375	Prostate cancer	63	89	10779	19747	0.001264618	0.2061328
hsa-miR-151a-3p	Colorectal cancer	74	86	14207	19747	0.001525605	0.245622338	hsa-miR-433-3p	MAPK signaling pathway	151	272	9123	19747	0.001195495	0.206385694
hsa-miR-126-5p	Chronic myeloid leukemia	69	75	15467	19747	0.001381755	0.245952355	hsa-miR-129-5p	TGF beta signaling pathway	77	86	15041	19747	0.001350638	0.206647646
hsa-miR-151a-3p	Hedgehog signaling pathway	50	56	14207	19747	0.001542622	0.248362137	hsa-miR-637	Fc gamma R mediated phagocytosis	79	97	13290	19747	0.001390794	0.211400758
hsa-let-7d-5p	Chronic myeloid leukemia	74	75	17554	19747	0.001497615	0.248604138	hsa-miR-608	Long term potentiation	63	71	14514	19747	0.001423194	0.212055896
hsa-miR-181b-5p	Prostate cancer	72	89	13039	19747	0.0014631	0.250190087	hsa-miR-3150a-3p	Type II diabetes mellitus	42	49	12942	19747	0.001357524</	

hsa-miR-223-5p	Regulation of actin cytoskeleton	192	212	16441	19747	0.001620961	0.259353733	hsa-miR-3173-3p	Chemokine signaling pathway	122	189	10610	19747	0.001597517	0.236432589
hsa-miR-221-5p	Prostate cancer	75	89	13873	19747	0.00171025	0.25995799	hsa-miR-3691-5p	Adherens junction	51	76	9774	19747	0.001420902	0.238711494
hsa-miR-221-5p	Endometrial cancer	46	52	13873	19747	0.001718213	0.261168433	hsa-miR-1193	Non homologous end joining	13	13	11973	19747	0.001492828	0.240345256
hsa-miR-146a-5p	Hedgehog signaling pathway	49	56	13787	19747	0.001697625	0.261434223	hsa-miR-608	Colorectal cancer	75	86	14514	19747	0.001637878	0.240768013
hsa-miR-146a-3p	B cell receptor signaling pathway	67	75	14839	19747	0.001758945	0.265600624	hsa-miR-129-5p	Calcium signaling pathway	152	178	15041	19747	0.001615002	0.243868059
hsa-miR-99b-5p	Vascular smooth muscle contraction	68	116	8827	19747	0.001740178	0.271467735	hsa-miR-3691-5p	Inositol phosphate metabolism	38	54	9774	19747	0.001495813	0.251296637
hsa-miR-652-3p	Cell cycle	109	124	15230	19747	0.001712105	0.27393674	hsa-miR-3691-5p	Type II diabetes mellitus	35	49	9774	19747	0.001500266	0.252044734
hsa-miR-221-3p	Type II diabetes mellitus	42	49	13035	19747	0.001679532	0.274798673	hsa-miR-3691-5p	Long term potentiation	48	71	9774	19747	0.001524623	0.256136666
hsa-miR-146a-5p	Glioma	56	65	13787	19747	0.001825169	0.277425743	hsa-miR-2278	Melanoma	53	71	11306	19747	0.001759512	0.26040777
hsa-miR-99b-3p	Keratan sulfate biosynthesis	15	15	12919	19747	0.001716704	0.278105989	hsa-miR-3661	Pancreatic cancer	44	75	8111	19747	0.001554076	0.261084852
hsa-miR-301b	MAPK signaling pathway	228	272	15093	19747	0.001733322	0.279064814	hsa-miR-532-3p	Hypertrophic cardiomyopathy HCM	56	86	9658	19747	0.001746637	0.263702051
hsa-miR-24-3p	Prostate cancer	80	89	15270	19747	0.001788643	0.280816995	hsa-miR-3154	Adipocytokine signaling pathway	54	70	11820	19747	0.001738532	0.264256854
hsa-let-7d-3p	Spliceosome	101	126	13453	19747	0.001778766	0.281045099	hsa-miR-937-5p	mTOR signaling pathway	23	53	4832	19747	0.001924613	0.267521217
hsa-let-7d-5p	Non small cell lung cancer	54	54	17554	19747	0.001719131	0.281937475	hsa-miR-608	Chronic myeloid leukemia	66	75	14514	19747	0.001833645	0.267712194
hsa-miR-221-5p	Wnt signaling pathway	123	152	13873	19747	0.001856306	0.282158503	hsa-miR-433-5p	Apoptosis	21	87	2448	19747	0.001834895	0.270393904
hsa-miR-652-5p	Axon guidance	72	129	8443	19747	0.001861749	0.290432801	hsa-miR-375	Neuroactive ligand receptor interactor	165	259	10779	19747	0.001715905	0.272828915
hsa-miR-146a-3p	Melanogenesis	89	102	14839	19747	0.001942163	0.291324411	hsa-miR-1193	Fc gamma R mediated phagocytosis	73	97	11973	19747	0.001708746	0.273399298
hsa-miR-125a-5p	Fc gamma R mediated phagocytosis	74	97	12239	19747	0.001948572	0.294234442	hsa-miR-4263	VEGF signaling pathway	46	78	8277	19747	0.001740636	0.276761047
hsa-miR-301b	Non small cell lung cancer	50	54	15093	19747	0.001840865	0.294538338	hsa-miR-608	mTOR signaling pathway	48	53	14514	19747	0.001922206	0.280642108
hsa-miR-146b-5p	Amyotrophic lateral sclerosis ALS	48	55	13741	19747	0.001920301	0.295726391	hsa-miR-1193	Glioma	51	65	11973	19747	0.001760192	0.281630743
hsa-miR-652-5p	Chemokine signaling pathway	101	189	8443	19747	0.001909739	0.296009524	hsa-miR-3691-5p	Calcium signaling pathway	108	178	9774	19747	0.001697904	0.28355005
hsa-miR-27a-5p	Chronic myeloid leukemia	75	75	18134	19747	0.001655745	0.296378388	hsa-miR-1193	Basal cell carcinoma	44	55	11973	19747	0.001773906	0.283825026
hsa-miR-27a-5p	Melanogenesis	101	102	18134	19747	0.00166133	0.297378074	hsa-miR-382-5p	Tight junction	87	123	10473	19747	0.001790507	0.284690684
hsa-let-7d-5p	Gap junction	88	90	17554	19747	0.001841449	0.298314766	hsa-miR-637	Amyotrophic lateral sclerosis ALS	47	55	13290	19747	0.001916572	0.285569186
hsa-miR-24-3p	Adherens junction	69	76	15270	19747	0.001920119	0.299538542	hsa-miR-382-5p	ogenic right ventricular cardiomyopat	52	74	10473	19747	0.001856114	0.293266014
hsa-let-7d-3p	T cell receptor signaling pathway	89	110	13453	19747	0.001912046	0.300191183	hsa-miR-129-5p	Ubiquitin mediated proteolysis	116	134	15041	19747	0.001986523	0.294005336
hsa-miR-652-3p	Neurotrophin signaling pathway	113	129	15230	19747	0.001893382	0.301047744	hsa-miR-937-3p	Pancreatic cancer	29	75	4545	19747	0.001678379	0.295394672
hsa-miR-221-3p	Small cell lung cancer	68	84	13035	19747	0.001881182	0.306632721	hsa-miR-433-5p	Huntingtons disease	35	172	2448	19747	0.002023658	0.295454106
hsa-miR-301b	Notch signaling pathway	44	47	15093	19747	0.001920768	0.307322818	hsa-miR-382-3p	Regulation of actin cytoskeleton	86	212	6099	19747	0.001687814	0.297055198
hsa-miR-223-5p	Apoptosis	82	87	16441	19747	0.001974969	0.308095159	hsa-miR-433-5p	Fc epsilon RI signaling pathway	20	82	2448	19747	0.002039147	0.297715524
hsa-miR-99b-3p	TGF beta signaling pathway	69	86	12919	19747	0.001929254	0.308680669	hsa-miR-3173-3p	Vascular smooth muscle contraction	78	116	10610	19747	0.002082074	0.306064903
hsa-miR-27a-3p	Apoptosis	75	87	14343	19747	0.001956286	0.309093195	hsa-miR-3173-3p	Leukocyte transendothelial migration	78	116	10610	19747	0.002082074	0.306064903
hsa-miR-99b-5p	VEGF signaling pathway	48	78	8827	19747	0.002013578	0.310090997	hsa-miR-382-5p	Insulin signaling pathway	91	139	10473	19747	0.001943876	0.307132392
hsa-miR-99b-3p	Renal cell carcinoma	58	71	12919	19747	0.001957673	0.313227731	hsa-miR-676-5p	Type II diabetes mellitus	33	49	9088	19747	0.002097929	0.310493557
hsa-miR-99b-3p	Long term potentiation	58	71	12919	19747	0.001957673	0.313227731	hsa-miR-3150a-3p	Long term potentiation	58	71	12942	19747	0.002084118	0.310533634
hsa-miR-181b-5p	T cell receptor signaling pathway	87	110	13039	19747	0.001882076	0.314306647	hsa-miR-1193	Cell adhesion molecules CAMs	97	133	11973	19747	0.00196325	0.311634707
hsa-let-7d-5p	Ubiquitin mediated proteolysis	129	134	17554	19747	0.001952507	0.314353689	hsa-miR-676-5p	Chemokine signaling pathway	107	189	9088	19747	0.002135456	0.316047439
hsa-miR-146a-5p	Amyotrophic lateral sclerosis ALS	48	55	13787	19747	0.002146457	0.319822119	hsa-miR-1193	Long term potentiation	55	71	11973	19747	0.002014667	0.318317379
hsa-miR-652-3p	Ubiquitin mediated proteolysis	117	134	15230	19747	0.002073927	0.325606491	hsa-miR-3154	Oocyte meiosis	82	112	11820	19747	0.002141452	0.319076414
hsa-miR-223-5p	Calcium signaling pathway	162	178	16441	19747	0.00212812	0.327730354	hsa-miR-433-5p	Vibrio cholerae infection	15	55	2448	19747	0.0022393	0.324698844
hsa-miR-301b	Calcium signaling pathway	152	178	15093	19747	0.002078313	0.330451777	hsa-miR-382-5p	O Glycan biosynthesis	24	30	10473	19747	0.002082102	0.326890002
hsa-miR-221-5p	GnRH signaling pathway	87	105	13873	19747	0.002201413	0.332413417	hsa-miR-3154	mTOR signaling pathway	42	53	11820	19747	0.002235856	0.330906712
hsa-let-7d-5p	MAPK signaling pathway	256	272	17554	19747	0.002142483	0.342797335	hsa-miR-608	Cell adhesion molecules CAMs	112	133	14514	19747	0.002298906	0.331042429
hsa-miR-181b-5p	Phosphatidylinositol signaling system	62	76	13039	19747	0.002077982	0.342867003	hsa-miR-382-3p	Melanoma	34	71	6099	19747	0.001955306	0.338985873
hsa-miR-223-5p	TGF beta signaling pathway	81	86	16441	19747	0.00224662	0.343732896	hsa-miR-608	Endometrial cancer	47	52	14514	19747	0.002386129	0.343602619
hsa-miR-223-3p	Chronic myeloid leukemia	70	75	15956	19747	0.002023582	0.346032474	hsa-miR-676-5p	Vascular smooth muscle contraction	69	116	9088	19747	0.002395128	0.349688689
hsa-let-7d-5p	Endometrial cancer	52	52	17554	19747	0.002176949	0.346134952	hsa-miR-532-3p	T cell receptor signaling pathway	69	110	9658	19747	0.002387903	0.35499149
hsa-miR-744-3p	Peroxisome	75	79	16506	19747	0.002065026	0.351054354	hsa-miR-532-3p	VEGF signaling pathway	51	78	9658	19747	0.002412954	0.357117265
hsa-miR-99b-3p	Amyotrophic lateral sclerosis ALS	46	55	12919	19747	0.00224751	0.35510661	hsa-miR-3661	Adherens junction	44	76	8111	19747	0.002235925	0.364455716
hsa-let-7d-3p	Notch signaling pathway	41	47	13453	19747	0.002285535	0.356543484	hsa-miR-129-5p	Leukocyte transendothelial migration	101	116	15041	19747	0.002520001	0.365400205
hsa-let-7d-5p	Renal cell carcinoma	70	71	17554	19747	0.00222864	0.362057721	hsa-miR-3173-3p	Fc epsilon RI signaling pathway	57	82	10610	19747	0.002555829	0.36803932
hsa-miR-24-3p	Basal cell carcinoma	51	55	15270	19747	0.002376704	0.363635782	hsa-miR-676-5p	Long term depression	46	73	9088	19747	0.002546291	0.368153313
hsa-miR-221-3p	Endometrial cancer	44	52	13035	19747	0.002266661	0.364932469	hsa-miR-3661	Endometrial cancer	32	52	8111	19747	0.002286616	0.370431832
hsa-miR-99b-5p	Hedgehog signaling pathway	36	56	8827	19747	0.002448846	0.369775681	hsa-miR-3661	Non small cell lung cancer	33	54	8111	19747	0.002315135	0.375051926
hsa-let-7d-3p	Fc gamma R mediated phagocytosis	79	97	13453	19747	0.002370643	0.369820351	hsa-miR-129-5p	Acute myeloid leukemia	53	58	15041	19747	0.002602348	0.377340482
hsa-miR-26a-5p	ErbB signaling pathway	79	89	15050	19747	0.00222556	0.371668468	hsa-miR-3154	Gap junction	67	90	11820	19747	0.002650167	0.386924423
hsa-miR-223-5p	Adherens junction	72	76	16441	19747	0.002475197	0.373754739	hsa-miR-375	Inositol phosphate metabolism	40	54	10779	19747	0.002532971	0.390077608
hsa-miR-744-3p	Fc gamma R mediated phagocytosis	91	97	16506	19747	0.002253525	0.378592263	hsa-miR-937-5p	Adipocytokine signaling pathway	28	70	4832	19747	0.002895281	0.390862901
hsa-miR-301b	Oocyte meiosis	98	112	15093	19747	0.002459201	0.384665678	hsa-miR-4263	Renal cell carcinoma	42	71	8277	19747	0.002498867	0.392322088
hsa-let-7d-5p	Apoptosis	85	87	17554	19747	0.002467071	0.387330143	hsa-miR-637	VEGF signaling pathway	64	78	13290	19747	0.002728217	0.392863266
hsa-miR-99b-3p	Adipocytokine signaling pathway	57	70	12919	19747	0.002471898	0.388087926	hsa-miR-637	Adipocytokine signaling pathway	58	70	13290	19747	0.002743681	0.395090022
hsa-miR-744-5p	Metabolic pathways	1018	1091	17959	19747	0.0022365	0.388522191	hsa-miR-637	ogenic right ventricular cardiomyopat	61	74	13290	19747	0.002745703	0.395173016
hsa-miR-99b-3p	T cell receptor signaling pathway	86	110	12919	19747	0.002490545	0.391015536	hsa-miR-433-5p	Small cell lung cancer	20	84	2448	19747	0.002766031	0.395542413
hsa-miR-27a-5p	Lysosome	119	121	18134	19747	0.002253967	0.394444249	hsa-miR-1193	Prostate cancer	67	89	11973	19747	0.002571788	0.39862721
hsa-miR-125a-5p	Adherens junction	59	76	12239	19747	0.002681935	0.396926398	hsa-miR-129-5p	Purine metabolism	135	158	15041	19747	0.002752678	0.399138311
hsa-miR-223-3p	Arrhythmogenic right ventricular cardiomyopathy ARVC	69	74	15956</											

hsa-miR-146a-3p	VEGF signaling pathway	69	78	14839	19747	0.002798063	0.411315303	hsa-miR-433-3p	Renal cell carcinoma	45	71	9123	19747	0.002622645	0.422245908
hsa-miR-146a-3p	Amyotrophic lateral sclerosis ALS	50	55	14839	19747	0.002809039	0.412928717	hsa-miR-375	Dilated cardiomyopathy	65	94	10779	19747	0.002744363	0.42263189
hsa-miR-223-5p	Pancreatic cancer	71	75	16441	19747	0.002829883	0.415985052	hsa-miR-532-3p	Fc epsilon RI signaling pathway	53	82	9658	19747	0.002915605	0.422762668
hsa-miR-181b-5p	Chronic myeloid leukemia	61	75	13039	19747	0.002595971	0.417951275	hsa-miR-382-3p	Non small cell lung cancer	27	54	6099	19747	0.002547807	0.433127201
hsa-miR-652-5p	Adherens junction	45	76	8443	19747	0.002785017	0.420537551	hsa-miR-375	Colorectal cancer	60	86	10779	19747	0.002841469	0.434744682
hsa-miR-221-3p	Colorectal cancer	69	86	13035	19747	0.002726046	0.436167404	hsa-miR-3150a-3p	Josterone regulated sodium reabsorpti	36	42	12942	19747	0.003029222	0.436207949
hsa-miR-223-5p	Glioma	62	65	16441	19747	0.003014442	0.437090936	hsa-miR-382-5p	Adipocytokine signaling pathway	49	70	10473	19747	0.002825092	0.436963204
hsa-miR-99b-3p	Acute myeloid leukemia	48	58	12919	19747	0.002825025	0.440703919	hsa-miR-2278	Hypertrophic cardiomyopathy HCM	62	86	11306	19747	0.003165228	0.439966702
hsa-miR-146a-5p	Calcium signaling pathway	141	178	13787	19747	0.003066462	0.441570554	hsa-miR-1193	Adherens junction	58	76	11973	19747	0.002861707	0.440702929
hsa-miR-151a-5p	p53 signaling pathway	62	68	15295	19747	0.00269371	0.441768361	hsa-miR-637	mTOR signaling pathway	45	53	13290	19747	0.003143629	0.446395299
hsa-miR-126-5p	Fc gamma R mediated phagocytosis	87	97	15467	19747	0.002702359	0.443186927	hsa-miR-608	Hedgehog signaling pathway	50	56	14514	19747	0.003292453	0.454358518
hsa-miR-146b-5p	Melanoma	60	71	13741	19747	0.003022266	0.44427307	hsa-miR-3150a-3p	Small cell lung cancer	67	84	12942	19747	0.003161733	0.455289622
hsa-miR-744-5p	Spliceosome	123	126	17959	19747	0.002585259	0.444664448	hsa-miR-129-5p	ABC transporters	41	44	15041	19747	0.003197859	0.457293777
hsa-miR-27a-3p	Glioma	57	65	14343	19747	0.002898005	0.446292826	hsa-miR-129-5p	B cell receptor signaling pathway	67	75	15041	19747	0.003197947	0.457306456
hsa-miR-27a-3p	B cell receptor signaling pathway	65	75	14343	19747	0.002911009	0.448212395	hsa-miR-608	Lysosome	102	121	14514	19747	0.003318983	0.4580196
hsa-miR-27a-3p	Chronic myeloid leukemia	65	75	14343	19747	0.002911009	0.448212395	hsa-miR-608	Vascular smooth muscle contraction	98	116	14514	19747	0.003440025	0.471283403
hsa-let-7d-5p	Jak STAT signaling pathway	149	156	17554	19747	0.002910561	0.451137031	hsa-miR-382-3p	Ubiquitin mediated proteolysis	57	134	6099	19747	0.002807878	0.471723564
hsa-miR-223-3p	Glioma	61	65	15956	19747	0.002730686	0.453293929	hsa-miR-433-3p	Pancreatic cancer	47	75	9123	19747	0.002973133	0.472728119
hsa-miR-744-3p	TGF beta signaling pathway	81	86	16506	19747	0.002826418	0.457879757	hsa-miR-937-5p	Type II diabetes mellitus	21	49	4832	19747	0.003570611	0.474891324
hsa-miR-744-3p	Colorectal cancer	81	86	16506	19747	0.002826418	0.457879757	hsa-miR-382-5p	Inositol phosphate metabolism	39	54	10473	19747	0.003086633	0.475341502
hsa-miR-26a-5p	Adipocytokine signaling pathway	63	70	15050	19747	0.002799627	0.461938517	hsa-miR-532-3p	Glycerophospholipid metabolism	46	70	9658	19747	0.003333075	0.479962841
hsa-miR-223-5p	Arrhythmic right ventricular cardiomyopathy ARVC	70	74	16441	19747	0.003233243	0.462353798	hsa-miR-433-5p	Focal adhesion	37	203	2448	19747	0.003433441	0.480681779
hsa-miR-146b-5p	Cell adhesion molecules CAMs	107	133	13741	19747	0.003157547	0.463537448	hsa-miR-2278	Dilated cardiomyopathy	69	94	11306	19747	0.00349552	0.482381733
hsa-miR-223-3p	T cell receptor signaling pathway	100	110	15956	19747	0.002830623	0.467052767	hsa-miR-1193	mTOR signaling pathway	42	53	11973	19747	0.003152868	0.482388811
hsa-miR-99b-5p	Glycosphingolipid biosynthesis lacto and neolacto series	19	26	8827	19747	0.003198498	0.47017921	hsa-miR-532-3p	ngolipid biosynthesis lacto and neole	20	26	9658	19747	0.00335862	0.483641256
hsa-miR-27a-5p	Insulin signaling pathway	136	139	18134	19747	0.002784664	0.470608292	hsa-miR-3691-5p	Cell adhesion molecules CAMs	82	133	9774	19747	0.003109178	0.485031785
hsa-miR-26a-5p	Chemokine signaling pathway	160	189	15050	19747	0.002868124	0.47324052	hsa-miR-2278	Vascular smooth muscle contraction	81	116	11306	19747	0.003551859	0.490156488
hsa-let-7d-5p	Cytokine cytokine receptor interaction	250	266	17554	19747	0.003081518	0.474553777	hsa-miR-433-5p	Endometrial cancer	14	22	2448	19747	0.003526068	0.491088933
hsa-miR-125a-5p	Basal cell carcinoma	44	55	12239	19747	0.003282336	0.47593866	hsa-miR-375	NARE interactions in vesicular transp	30	39	10779	19747	0.003328719	0.505965283
hsa-miR-146a-3p	Chemokine signaling pathway	158	189	14839	19747	0.003297016	0.478067249	hsa-miR-637	Primary immunodeficiency	31	35	13290	19747	0.003683838	0.509367344
hsa-miR-181b-5p	VEGF signaling pathway	63	78	13039	19747	0.003077777	0.481355875	hsa-miR-433-5p	TGF beta signaling pathway	20	86	2448	19747	0.003698525	0.514094932
hsa-miR-301b	Phosphatidylinositol signaling system	68	76	15093	19747	0.003149076	0.481808637	hsa-miR-382-3p	Neurotrophin signaling pathway	55	129	6099	19747	0.00310056	0.515487127
hsa-miR-146a-5p	Melanoma	60	71	13787	19747	0.003416941	0.487649073	hsa-miR-4263	Endometrial cancer	32	52	8277	19747	0.003957618	0.517073162
hsa-miR-146a-5p	Long term potentiation	60	71	13787	19747	0.003416941	0.487649073	hsa-miR-3173-3p	Primary immunodeficiency	27	35	10610	19747	0.003704007	0.518560977
hsa-miR-744-3p	Lysine degradation	44	45	16506	19747	0.003061291	0.48980649	hsa-miR-532-3p	Acute myeloid leukemia	39	58	9658	19747	0.003640614	0.520670777
hsa-miR-24-3p	Fc gamma R mediated phagocytosis	86	97	15270	19747	0.003239343	0.492742767	hsa-miR-433-5p	Leukocyte transendothelial migration	25	116	2448	19747	0.00380613	0.528212918
hsa-miR-652-3p	VEGF signaling pathway	70	78	15230	19747	0.003407761	0.507756447	hsa-miR-433-5p	T cell receptor signaling pathway	24	110	2448	19747	0.003830364	0.528590292
hsa-miR-146b-5p	Jak STAT signaling pathway	124	156	13741	19747	0.003541239	0.509938431	hsa-miR-608	Adherens junction	66	76	14514	19747	0.003925987	0.530008234
hsa-miR-125a-5p	T cell receptor signaling pathway	82	110	12239	19747	0.003611706	0.520085676	hsa-miR-2278	Long term potentiation	52	71	11306	19747	0.003876858	0.531129542
hsa-miR-99b-5p	Amyotrophic lateral sclerosis ALS	35	55	8827	19747	0.003590741	0.520657485	hsa-miR-433-3p	Ubiquitin mediated proteolysis	78	134	9123	19747	0.003386249	0.531641069
hsa-miR-146a-3p	Ubiquitin mediated proteolysis	114	134	14839	19747	0.003611414	0.520810025	hsa-miR-4263	Fc epsilon RI signaling pathway	47	82	8277	19747	0.003468029	0.534076422
hsa-miR-126-5p	Hedgehog signaling pathway	52	56	15467	19747	0.003258579	0.524631255	hsa-miR-433-5p	Acute myeloid leukemia	15	58	2448	19747	0.003913309	0.540036607
hsa-miR-99b-5p	Fc gamma R mediated phagocytosis	57	97	8827	19747	0.003657369	0.530318489	hsa-miR-608	Basal cell carcinoma	49	55	14514	19747	0.004033665	0.544542725
hsa-miR-223-5p	Jak STAT signaling pathway	142	156	16441	19747	0.003890792	0.536929334	hsa-miR-4263	Adherens junction	44	76	8277	19747	0.003553382	0.547220878
hsa-miR-151a-3p	Endometrial cancer	46	52	14207	19747	0.00373258	0.544956741	hsa-miR-637	Small cell lung cancer	68	84	13290	19747	0.003950813	0.549162981
hsa-miR-301b	Pancreatic cancer	67	75	15093	19747	0.0037155	0.554128626	hsa-miR-433-5p	Pancreatic cancer	18	75	2448	19747	0.00401211	0.553671203
hsa-miR-126-5p	Phosphatidylinositol signaling system	69	76	15467	19747	0.003487577	0.558012272	hsa-miR-4263	Adipocytokine signaling pathway	41	70	8277	19747	0.003599615	0.554340751
hsa-miR-744-3p	Melanogenesis	95	102	16506	19747	0.003562059	0.559243328	hsa-miR-3150a-3p	Jak STAT signaling pathway	118	156	12942	19747	0.004119228	0.560215026
hsa-miR-744-3p	Steroid hormone biosynthesis	53	55	16506	19747	0.00357227	0.560846443	hsa-miR-3150a-3p	p53 signaling pathway	55	68	12942	19747	0.004138769	0.562872545
hsa-miR-99b-5p	Adherens junction	46	76	8827	19747	0.003933201	0.562447743	hsa-miR-608	GnRH signaling pathway	89	105	14514	19747	0.004271181	0.570348955
hsa-miR-223-5p	Gap junction	84	90	16441	19747	0.00413537	0.566545741	hsa-miR-433-5p	Axon guidance	27	129	2448	19747	0.004151966	0.572086718
hsa-miR-146a-3p	Phosphatidylinositol signaling system	67	76	14839	19747	0.003936186	0.566810729	hsa-miR-532-3p	rogenic right ventricular cardiomyopat	48	74	9658	19747	0.004056034	0.573847388
hsa-miR-223-3p	Neurotrophin signaling pathway	116	129	15956	19747	0.003601369	0.569016242	hsa-miR-382-3p	ntose and glucuronate interconversio	16	28	6099	19747	0.003513962	0.576289822
hsa-miR-744-3p	Glioma	62	65	16506	19747	0.003650682	0.571508971	hsa-miR-2278	Fc epsilon RI signaling pathway	59	82	11306	19747	0.004239227	0.576534861
hsa-miR-652-3p	Melanoma	64	71	15230	19747	0.003918893	0.572158392	hsa-miR-3154	Non small cell lung cancer	42	54	11820	19747	0.004252124	0.591045288
hsa-miR-652-3p	Calcium signaling pathway	152	178	15230	19747	0.003950912	0.573567603	hsa-miR-3154	Inositol phosphate metabolism	42	54	11820	19747	0.004252124	0.591045288
hsa-miR-125a-5p	Renal cell carcinoma	55	71	12239	19747	0.004027836	0.575980483	hsa-miR-676-5p	Fc gamma R mediated phagocytosis	58	97	9088	19747	0.004354115	0.596513803
hsa-miR-26a-5p	Endocytosis	158	187	15050	19747	0.003593183	0.576447558	hsa-miR-3691-5p	no sugar and nucleotide sugar metabo	31	44	9774	19747	0.003899387	0.596606191
hsa-miR-181b-5p	Non small cell lung cancer	45	54	13039	19747	0.003807242	0.576984658	hsa-miR-937-3p	Glioma	25	65	4545	19747	0.003686295	0.600866156
hsa-miR-744-5p	Insulin signaling pathway	135	139	17959	19747	0.00365227	0.578888009	hsa-miR-937-5p	Thyroid cancer	14	29	4832	19747	0.004563299	0.602355445
hsa-miR-27a-3p	MAPK signaling pathway	217	272	14343	19747	0.003898524	0.580880122	hsa-miR-676-5p	Hedgehog signaling pathway	36	56	9088	19747	0.004477569	0.612051645
hsa-miR-146a-5p	Jak STAT signaling pathway	124	156	13787	19747	0.004250422	0.582307763	hsa-miR-375	rogenic right ventricular cardiomyopat	52	74	10779	19747	0.004177384	0.614075382
hsa-miR-151a-3p	Citrate cycle TCA cycle	28	30	14207	19747	0.004023494	0.582417826	hsa-miR-3691-5p	B cell receptor signaling pathway	49	75	9774	19747	0.004046806	0.615114536
hsa-let-7d-5p	Notch signaling pathway	47	47	17554	19747	0.003927791	0.58524093	hsa-miR-375	no sugar and nucleotide sugar metabo	33	44	10779	19747	0.004278937	0.624724799
hsa-let-7d-5p	Wnt signaling pathway	145	152	17554	19747	0.003932471	0.585938133	hsa-miR-433-3p	Jak STAT signaling pathway	89	156	9123	19747	0.004082829	0

hsa-miR-146a-5p	Arrhythmogenic right ventricular cardiomyopathy ARVC	62	74	13787	19747	0.004469273	0.607821177	hsa-miR-3691-5p	Small cell lung cancer	54	84	9774	19747	0.004388123	0.658218395
hsa-miR-151a-3p	Pyruvate metabolism	37	41	14207	19747	0.004241152	0.610725881	hsa-miR-676-5p	al cell signaling in Helicobacter pylori i	44	71	9088	19747	0.004921339	0.664380727
hsa-miR-744-3p	Arrhythmogenic right ventricular cardiomyopathy ARVC	70	74	16506	19747	0.003968324	0.611121865	hsa-miR-637	Notch signaling pathway	40	47	13290	19747	0.004890676	0.665131996
hsa-miR-125a-5p	Arrhythmogenic right ventricular cardiomyopathy ARVC	57	74	12239	19747	0.0043041	0.611182129	hsa-miR-382-3p	Long term potentiation	33	71	6099	19747	0.004106586	0.665266933
hsa-miR-126-5p	Basal cell carcinoma	51	55	15467	19747	0.003887704	0.618144967	hsa-miR-3173-3p	Natural killer cell mediated cytotoxicity	89	137	10610	19747	0.004922457	0.669454109
hsa-miR-146a-5p	Glycosphingolipid biosynthesis ganglio series	15	15	13787	19747	0.004555446	0.619540615	hsa-miR-375	Fc gamma R mediated phagocytosis	66	97	10779	19747	0.004703629	0.677322561
hsa-let-7d-5p	Glioma	64	65	17554	19747	0.004291113	0.626502243	hsa-miR-433-3p	Inositol phosphate metabolism	35	54	9123	19747	0.004470148	0.679462547
hsa-miR-27a-5p	Glioma	65	65	18134	19747	0.003894335	0.630882208	hsa-miR-382-3p	Apoptosis	39	87	6099	19747	0.004221367	0.679640124
hsa-miR-744-3p	Inositol phosphate metabolism	52	54	16506	19747	0.004134421	0.632566439	hsa-miR-637	Pancreatic cancer	61	75	13290	19747	0.005073408	0.68491002
hsa-miR-744-3p	Non small cell lung cancer	52	54	16506	19747	0.004134421	0.632566439	hsa-miR-3661	Glycerophospholipid metabolism	40	70	8111	19747	0.004765633	0.695728372
hsa-miR-24-3p	Renal cell carcinoma	64	71	15270	19747	0.004380071	0.635110276	hsa-miR-1193	Acute myeloid leukemia	45	58	11173	19747	0.004803219	0.706073193
hsa-let-7d-3p	mTOR signaling pathway	45	53	13453	19747	0.004517467	0.636962851	hsa-miR-382-5p	p53 signaling pathway	47	68	10473	19747	0.005058342	0.708167923
hsa-miR-146a-3p	TGF beta signaling pathway	75	86	14839	19747	0.004498179	0.638741369	hsa-miR-608	Small cell lung cancer	72	84	14514	19747	0.005498047	0.709248097
hsa-miR-221-5p	Chondroitin sulfate biosynthesis	21	22	13873	19747	0.004351482	0.639667847	hsa-miR-375	ErbB signaling pathway	61	89	10779	19747	0.005007245	0.711028858
hsa-miR-181b-5p	Melanogenesis	80	102	13039	19747	0.004309539	0.642121268	hsa-miR-3661	Focal adhesion	102	203	8111	19747	0.004931621	0.715085028
hsa-miR-146b-5p	Gap junction	74	90	13741	19747	0.004657271	0.642703352	hsa-miR-608	ogenic right ventricular cardiomyopat	64	74	14514	19747	0.005574699	0.719136111
hsa-miR-223-5p	Renal cell carcinoma	67	71	16441	19747	0.004803631	0.643686655	hsa-miR-937-5p	Cell adhesion molecules CAMs	46	133	4832	19747	0.005538326	0.719982338
hsa-miR-24-3p	ErbB signaling pathway	79	89	15270	19747	0.004504799	0.653195924	hsa-miR-637	Gap junction	72	90	13290	19747	0.00542266	0.721213765
hsa-miR-744-3p	Metabolic pathways	943	1091	16506	19747	0.004378145	0.661099848	hsa-miR-637	GnRH signaling pathway	83	105	13290	19747	0.005433292	0.722627817
hsa-miR-223-5p	Fc gamma R mediated phagocytosis	90	97	16441	19747	0.004972936	0.661400537	hsa-miR-382-5p	Amyotrophic lateral sclerosis ALS	39	55	10473	19747	0.005209701	0.724148491
hsa-miR-301b	Melanogenesis	89	102	15093	19747	0.004639126	0.668034164	hsa-miR-375	Type II diabetes mellitus	36	49	10779	19747	0.005170542	0.729046353
hsa-miR-744-3p	Regulation of actin cytoskeleton	191	212	16506	19747	0.004538864	0.674037582	hsa-miR-937-5p	Hypertrophic cardiomyopathy HCM	32	86	4832	19747	0.005695645	0.734738245
hsa-miR-99b-5p	Dilated cardiomyopathy	55	94	8827	19747	0.004829941	0.676191726	hsa-miR-637	Hypertrophic cardiomyopathy HCM	69	86	13290	19747	0.005634171	0.740303202
hsa-miR-652-3p	Cell adhesion molecules CAMs	115	133	15230	19747	0.004805871	0.677627819	hsa-miR-3173-3p	Ubiquitin mediated proteolysis	87	134	10610	19747	0.005518875	0.745048095
hsa-miR-27a-5p	Wnt signaling pathway	148	152	18134	19747	0.004271581	0.683453013	hsa-miR-3173-3p	ogenic right ventricular cardiomyopat	51	74	10610	19747	0.00553736	0.747543586
hsa-miR-181b-5p	Adherens junction	61	76	13039	19747	0.004702459	0.693989287	hsa-miR-3661	Inositol phosphate metabolism	32	54	8111	19747	0.005264052	0.752759453
hsa-miR-181b-5p	Calcium signaling pathway	134	178	13039	19747	0.004742693	0.697175929	hsa-miR-3661	Prostate cancer	49	89	8111	19747	0.005275377	0.754378876
hsa-miR-99b-3p	Melanoma	57	71	12919	19747	0.004565525	0.698525341	hsa-miR-937-3p	Neurotrophin signaling pathway	43	129	4545	19747	0.004745251	0.754494983
hsa-miR-151a-5p	Long term potentiation	64	71	15295	19747	0.004693357	0.704003497	hsa-miR-3150a-3p	Adipocytokine signaling pathway	56	70	12942	19747	0.006002512	0.756316553
hsa-miR-146a-5p	Gap junction	74	90	13787	19747	0.005322003	0.707826414	hsa-miR-3150a-3p	Basal cell carcinoma	45	55	12942	19747	0.006160586	0.770073193
hsa-miR-744-5p	Wnt signaling pathway	147	152	17959	19747	0.004759387	0.7091487	hsa-miR-3150a-3p	Amyotrophic lateral sclerosis ALS	45	55	12942	19747	0.006160586	0.770073193
hsa-miR-27a-5p	Prostate cancer	88	89	18134	19747	0.004474196	0.711397143	hsa-miR-375	Hypertrophic cardiomyopathy HCM	59	86	10779	19747	0.005542516	0.770409786
hsa-miR-99b-3p	ErbB signaling pathway	70	89	12919	19747	0.004658566	0.712760583	hsa-miR-4263	O Glycan biosynthesis	20	30	8277	19747	0.005404639	0.77286344
hsa-miR-99b-5p	Melanoma	43	71	8827	19747	0.005128992	0.712929891	hsa-miR-129-5p	Dilated cardiomyopathy	82	94	15041	19747	0.005617781	0.775253767
hsa-miR-125a-5p	Melanogenesis	76	102	12239	19747	0.00508853	0.717482771	hsa-miR-433-3p	Type II diabetes mellitus	32	49	9123	19747	0.005441004	0.791952432
hsa-miR-151a-3p	Adipocytokine signaling pathway	60	70	14207	19747	0.005127563	0.722986405	hsa-miR-375	Ubiquitin mediated proteolysis	88	134	10779	19747	0.005837676	0.801401979
hsa-miR-301b	Insulin signaling pathway	119	139	15093	19747	0.005094987	0.723488219	hsa-miR-637	Glycerophospholipid metabolism	57	70	13290	19747	0.006360473	0.80141957
hsa-miR-301b	Basal cell carcinoma	50	55	15093	19747	0.005166305	0.728448995	hsa-miR-637	Inositol phosphate metabolism	45	54	13290	19747	0.00572037	0.81501882
hsa-miR-181b-5p	Cell adhesion molecules CAMs	102	133	13039	19747	0.004963773	0.72967462	hsa-miR-3173-3p	osterone regulated sodium reabsorpti	31	42	10610	19747	0.006119516	0.818586211
hsa-miR-146a-5p	Regulation of actin cytoskeleton	165	212	13787	19747	0.005550639	0.73268432	hsa-miR-433-5p	VEGF signaling pathway	18	78	2448	19747	0.00621735	0.820690203
hsa-miR-146b-5p	Vibrio cholerae infection	47	55	13741	19747	0.005427295	0.732684768	hsa-miR-3691-5p	Basal cell carcinoma	37	55	9774	19747	0.005806768	0.824561106
hsa-miR-221-3p	mTOR signaling pathway	44	53	13035	19747	0.004820429	0.732705199	hsa-miR-637	Cell adhesion molecules CAMs	103	133	13290	19747	0.006790489	0.825267147
hsa-miR-223-3p	Small cell lung cancer	77	84	15956	19747	0.004911396	0.734987706	hsa-miR-937-3p	Glycerophospholipid metabolism	26	70	4545	19747	0.005353223	0.834123155
hsa-miR-24-3p	Phosphatidylinositol signaling system	68	76	15270	19747	0.005242661	0.749700483	hsa-miR-676-5p	Basal cell carcinoma	35	55	9088	19747	0.006385517	0.836502694
hsa-miR-151a-3p	Glioma	56	65	14207	19747	0.005366822	0.751355053	hsa-miR-1193	Non small cell lung cancer	42	54	11973	19747	0.005893821	0.836922649
hsa-miR-744-3p	Endometrial cancer	50	52	16506	19747	0.00528346	0.757383338	hsa-miR-3691-5p	Phosphatidylinositol signaling system	49	76	9774	19747	0.005963694	0.840880909
hsa-miR-744-5p	Steroid hormone biosynthesis	55	55	17959	19747	0.00536659	0.759024511	hsa-miR-129-5p	Renal cell carcinoma	63	71	15041	19747	0.006194372	0.8424346
hsa-miR-146a-3p	Arrhythmogenic right ventricular cardiomyopathy ARVC	65	74	14839	19747	0.005504215	0.759581614	hsa-miR-608	Fc gamma R mediated phagocytosis	82	97	14514	19747	0.006967631	0.843083311
hsa-miR-125a-5p	Long term depression	56	73	12239	19747	0.005424564	0.764863514	hsa-miR-433-5p	Dorso ventral axis formation	8	24	2448	19747	0.006463612	0.846733126
hsa-miR-744-3p	Insulin signaling pathway	127	139	16506	19747	0.005815218	0.779822081	hsa-miR-433-3p	osterone regulated sodium reabsorpti	28	42	9123	19747	0.005964904	0.852981337
hsa-miR-223-3p	Adherens junction	70	76	15956	19747	0.005321989	0.780311948	hsa-miR-382-5p	Melanogenesis	67	102	10473	19747	0.006420634	0.853944304
hsa-miR-221-3p	p53 signaling pathway	55	68	13035	19747	0.005205614	0.780842141	hsa-miR-2278	Lysosome	83	121	11306	19747	0.006781134	0.861204404
hsa-miR-151a-3p	Lysine degradation	40	45	14207	19747	0.005641403	0.784155009	hsa-miR-937-5p	NARE interactions in vesicular transp	17	39	4832	19747	0.00683091	0.862659182
hsa-miR-146a-5p	Vibrio cholerae infection	47	55	13787	19747	0.006060623	0.786789066	hsa-miR-375	Vascular smooth muscle contraction	77	116	10779	19747	0.006398901	0.863851572
hsa-miR-151a-3p	Basal cell carcinoma	48	55	14207	19747	0.005696452	0.791806776	hsa-miR-129-5p	Notch signaling pathway	43	47	15041	19747	0.006414312	0.869804141
hsa-miR-223-5p	Colorectal cancer	80	86	16441	19747	0.006653602	0.811739463	hsa-miR-375	B cell receptor signaling pathway	52	75	10779	19747	0.006443279	0.869842712
hsa-miR-99b-5p	Lysine degradation	29	45	8827	19747	0.005976502	0.815695658	hsa-miR-532-3p	Chondroitin sulfate biosynthesis	17	22	9658	19747	0.006358268	0.871082749
hsa-miR-221-3p	Fc gamma R mediated phagocytosis	76	97	13035	19747	0.005531084	0.818600398	hsa-miR-1193	ABC transporters	35	44	11973	19747	0.006185901	0.872212021
hsa-miR-99b-3p	MAPK signaling pathway	198	272	12919	19747	0.005388648	0.819074432	hsa-miR-433-5p	RNA polymerase	9	29	2448	19747	0.006682723	0.875436691
hsa-miR-27a-5p	Axon guidance	126	129	18134	19747	0.00534154	0.827938634	hsa-miR-608	Apoptosis	74	87	14514	19747	0.007426625	0.876341701
hsa-miR-744-5p	Adherens junction	75	76	17959	19747	0.006244725	0.830864577	hsa-miR-3661	Calcium signaling pathway	90	178	8111	19747	0.00637317	0.87949751
hsa-miR-744-5p	Phosphatidylinositol signaling system	75	76	17959	19747	0.006244725	0.830864577	hsa-miR-3173-3p	NARE interactions in vesicular transp	29	39	10610	19747	0.006679245	0.881660294
hsa-miR-301b	Chemokine signaling pathway	159	189	15093	19747	0.006109879	0.830943525	hsa-miR-3154	Chemokine signaling pathway	130	189	11820	19747	0.006732297	0.888663219
hsa-miR-181b-5p	B cell receptor signaling pathway	60	75	13039	19747	0.00578873	0.833577182	hsa-miR-382-3p	Chronic myeloid leukemia	34	75	6099	19747	0.005869622	0.903921717
hsa-miR-146a-3p	Small cell lung cancer	73	84	14839	19747	0.006159965	0.837755225	hsa-miR-608	T cell receptor signaling pathway</						

hsa-miR-125a-5p	Chemokine signaling pathway	134	189	12239	19747	0.006202755	0.868385641	hsa-miR-608	Renal cell carcinoma	61	71	14514	19747	0.009306754	0.951686502
hsa-miR-652-3p	Type II diabetes mellitus	45	49	15230	19747	0.006599535	0.871138661	hsa-miR-2278	rogenic right ventricular cardiomyopat	53	74	11306	19747	0.007613558	0.954966399
hsa-miR-744-5p	Chronic myeloid leukemia	74	75	17959	19747	0.006788852	0.876155054	hsa-miR-2278	Circadian rhythm mammal	12	13	11306	19747	0.007590233	0.954966399
hsa-miR-24-3p	Bladder cancer	40	43	15270	19747	0.006311845	0.877346469	hsa-miR-3150a-3p	Fc gamma R mediated phagocytosis	75	97	12942	19747	0.008099986	0.955798392
hsa-let-7d-5p	Phosphatidylinositol signaling system	74	76	17554	19747	0.007078845	0.884855668	hsa-miR-129-5p	Adipocytokine signaling pathway	62	70	15041	19747	0.007281172	0.968395849
hsa-let-7d-5p	Adherens junction	74	76	17554	19747	0.007078845	0.884855668	hsa-miR-937-5p	Basal cell carcinoma	22	55	4832	19747	0.007780153	0.972519137
hsa-miR-221-3p	Epithelial cell signaling in Helicobacter pylori infection	57	71	13035	19747	0.006093876	0.889705844	hsa-miR-608	Keratan sulfate biosynthesis	15	15	14514	19747	0.009850467	0.972805759
hsa-miR-181b-5p	Focal adhesion	151	203	13039	19747	0.006231668	0.891128506	hsa-miR-608	Lysine degradation	40	45	14514	19747	0.010290539	0.987891718
hsa-miR-151a-5p	Focal adhesion	172	203	15295	19747	0.006279391	0.897952966	hsa-miR-433-5p	mTOR signaling pathway	13	53	2448	19747	0.011105617	1
hsa-miR-151a-5p	Leukocyte transendothelial migration	101	116	15295	19747	0.006317773	0.903435389	hsa-miR-433-5p	Prion diseases	10	35	2448	19747	0.00823856	1
hsa-miR-27a-3p	Hedgehog signaling pathway	49	56	14343	19747	0.006320133	0.903779002	hsa-miR-433-5p	Tight junction	26	132	2448	19747	0.010867912	1
hsa-miR-26a-5p	Epithelial cell signaling in Helicobacter pylori infection	63	71	15050	19747	0.006343385	0.907228954	hsa-miR-433-5p	p53 signaling pathway	16	68	2448	19747	0.007888391	1
hsa-miR-26a-5p	Long term potentiation	63	71	15050	19747	0.006343385	0.907228954	hsa-miR-433-5p	Renal cell carcinoma	16	71	2448	19747	0.012025915	1
hsa-miR-26a-5p	Renal cell carcinoma	63	71	15050	19747	0.006343385	0.907228954	hsa-miR-433-5p	Chemokine signaling pathway	35	189	2448	19747	0.009563403	1
hsa-miR-652-3p	Aldosterone regulated sodium reabsorption	39	42	15230	19747	0.00706666	0.911599076	hsa-miR-433-5p	ogesterone mediated oocyte maturati	19	88	2448	19747	0.010522766	1
hsa-miR-125a-5p	Type II diabetes mellitus	39	49	12239	19747	0.006559395	0.911755836	hsa-miR-433-5p	NARE interactions in vesicular transp	9	39	2448	19747	0.045601115	1
hsa-miR-146b-5p	Long term potentiation	59	71	13741	19747	0.007083112	0.913721504	hsa-miR-433-5p	osphingolipid biosynthesis ganglio s	5	15	2448	19747	0.030034293	1
hsa-miR-146b-5p	Regulation of actin cytoskeleton	164	212	13741	19747	0.007093739	0.915092323	hsa-miR-433-5p	Neurotrophin signaling pathway	25	129	2448	19747	0.0150187	1
hsa-miR-652-3p	Prion diseases	33	35	15230	19747	0.00714475	0.916332397	hsa-miR-433-5p	Prostate cancer	18	89	2448	19747	0.023798696	1
hsa-miR-126-5p	Calcium signaling pathway	153	178	15467	19747	0.006425508	0.918847667	hsa-miR-433-5p	iline leucine and isoleucine biosynthe	4	11	2448	19747	0.03788842	1
hsa-miR-223-3p	ErbB signaling pathway	81	89	15956	19747	0.006575232	0.920532481	hsa-miR-433-5p	Basal cell carcinoma	12	55	2448	19747	0.034587175	1
hsa-let-7d-3p	Dorso ventral axis formation	22	24	13453	19747	0.007231622	0.92564761	hsa-miR-433-5p	RIG I like receptor signaling pathway	16	74	2448	19747	0.017689831	1
hsa-miR-151a-5p	Hematopoietic cell lineage	77	87	15295	19747	0.006494372	0.928695246	hsa-miR-433-5p	Adherens junction	16	76	2448	19747	0.042249314	1
hsa-miR-126-5p	Endometrial cancer	48	52	15467	19747	0.006554699	0.930767285	hsa-miR-433-5p	Vascular smooth muscle contraction	23	116	2448	19747	0.014744317	1
hsa-let-7d-5p	B cell receptor signaling pathway	73	75	17554	19747	0.007778375	0.932182803	hsa-miR-433-5p	Cell adhesion molecules CAMs	24	133	2448	19747	0.037001173	1
hsa-miR-151a-5p	T cell receptor signaling pathway	96	110	15295	19747	0.006596036	0.936637152	hsa-miR-433-5p	Ubiquitin mediated proteolysis	25	134	2448	19747	0.023409643	1
hsa-miR-146b-5p	Acute myeloid leukemia	49	58	13741	19747	0.007309624	0.942941452	hsa-miR-433-5p	B cell receptor signaling pathway	15	75	2448	19747	0.040251474	1
hsa-let-7d-5p	ErbB signaling pathway	86	89	17554	19747	0.00819905	0.944324195	hsa-miR-433-5p	Melanoma	15	71	2448	19747	0.025811071	1
hsa-let-7d-5p	Prostate cancer	86	89	17554	19747	0.00819905	0.944324195	hsa-miR-433-5p	Metabolic pathways	154	1091	2448	19747	0.044038092	1
hsa-miR-99b-5p	Neurotrophin signaling pathway	72	129	8827	19747	0.007130125	0.948306606	hsa-miR-433-5p	Jak STAT signaling pathway	29	156	2448	19747	0.016308131	1
hsa-miR-151a-3p	Non small cell lung cancer	47	54	14207	19747	0.006981029	0.949419978	hsa-miR-433-5p	Thyroid cancer	8	29	2448	19747	0.021499739	1
hsa-let-7d-5p	Arrhythmic right ventricular cardiomyopathy ARVC	72	74	17554	19747	0.008544545	0.953681351	hsa-miR-1193	VEGF signaling pathway	57	78	11973	19747	0.01469995	1
hsa-miR-221-3p	Chemokine signaling pathway	141	189	13035	19747	0.006628038	0.954437444	hsa-miR-1193	Dorso ventral axis formation	19	24	11973	19747	0.045484176	1
hsa-miR-223-5p	ECM receptor interaction	78	84	16441	19747	0.008403807	0.958033995	hsa-miR-1193	Regulation of actin cytoskeleton	144	212	11973	19747	0.016379674	1
hsa-let-7d-5p	Acute myeloid leukemia	57	58	17554	19747	0.008864923	0.96128404	hsa-miR-1193	NARE interactions in vesicular transp	29	39	11973	19747	0.052910003	1
hsa-miR-126-5p	Glioma	59	65	15467	19747	0.006985939	0.967998783	hsa-miR-1193	Heparan sulfate biosynthesis	21	26	11973	19747	0.024824852	1
hsa-miR-223-5p	MAPK signaling pathway	241	272	16441	19747	0.008535672	0.968160398	hsa-miR-1193	Type II diabetes mellitus	36	49	11973	19747	0.042545858	1
hsa-miR-99b-3p	Regulation of actin cytoskeleton	156	212	12919	19747	0.006512232	0.970322582	hsa-miR-1193	Chemokine signaling pathway	129	189	11973	19747	0.017802179	1
hsa-let-7d-3p	Tight junction	103	132	13453	19747	0.007770953	0.970627962	hsa-miR-1193	Amyotrophic lateral sclerosis ALS	40	55	11973	19747	0.042231007	1
hsa-miR-99b-5p	Chondroitin sulfate biosynthesis	16	22	8827	19747	0.007355073	0.978224686	hsa-miR-1193	Taurine and hypotaurine metabolism	9	10	11973	19747	0.050270256	1
hsa-miR-652-3p	Type II diabetes mellitus	30	49	8443	19747	0.006987417	0.978238329	hsa-miR-1193	p53 signaling pathway	48	68	11973	19747	0.057607708	1
hsa-let-7d-5p	Regulation of actin cytoskeleton	199	212	17554	19747	0.009055194	0.978243886	hsa-miR-1193	Hematopoietic cell lineage	62	87	11973	19747	0.025479567	1
hsa-miR-744-3p	p53 signaling pathway	64	68	16506	19747	0.008506897	0.978293099	hsa-miR-1193	licotinate and nicotinamide metabolisr	20	24	11973	19747	0.015644783	1
hsa-miR-126-5p	Melanogenesis	90	102	15467	19747	0.00727864	0.989895022	hsa-miR-1193	B cell receptor signaling pathway	55	75	11973	19747	0.014687807	1
hsa-let-7d-5p	Insulin signaling pathway	132	139	17554	19747	0.010138671	0.993589806	hsa-miR-1193	Methane metabolism	6	6	11973	19747	0.049658876	1
hsa-miR-221-3p	Regulation of actin cytoskeleton	157	212	13035	19747	0.006988287	0.99641841	hsa-miR-1193	Vascular smooth muscle contraction	83	116	11973	19747	0.009192166	1
hsa-miR-221-3p	Arrhythmic right ventricular cardiomyopathy ARVC	59	74	13035	19747	0.007035946	0.999104262	hsa-miR-1193	NOD like receptor signaling pathway	47	66	11973	19747	0.048905346	1
hsa-let-7d-3p	Bladder cancer	36	43	13453	19747	0.016983046	1	hsa-miR-1193	Ubiquitin mediated proteolysis	93	134	11973	19747	0.021701967	1
hsa-let-7d-3p	Hypertrophic cardiomyopathy HCM	66	86	13453	19747	0.051637204	1	hsa-miR-1193	GnRH signaling pathway	76	105	11973	19747	0.007877894	1
hsa-let-7d-3p	Fc epsilon RI signaling pathway	63	82	13453	19747	0.054623835	1	hsa-miR-1193	ECM receptor interaction	62	84	11973	19747	0.007845207	1
hsa-let-7d-3p	Epithelial cell signaling in Helicobacter pylori infection	57	71	13453	19747	0.016159361	1	hsa-miR-1193	Melanoma	51	71	11973	19747	0.032933787	1
hsa-let-7d-3p	Type II diabetes mellitus	41	49	13453	19747	0.011200441	1	hsa-miR-1193	rogenic right ventricular cardiomyopat	55	74	11973	19747	0.009462461	1
hsa-let-7d-3p	Jak STAT signaling pathway	116	156	13453	19747	0.053818047	1	hsa-miR-1193	Glycerophospholipid metabolism	51	70	11973	19747	0.022276424	1
hsa-let-7d-3p	Viral myocarditis	56	72	13453	19747	0.047919028	1	hsa-miR-1193	Renal cell carcinoma	51	71	11973	19747	0.032933787	1
hsa-let-7d-3p	Phosphatidylinositol signaling system	59	76	13453	19747	0.045487368	1	hsa-miR-1193	Pancreatic cancer	55	75	11973	19747	0.014687807	1
hsa-let-7d-3p	Long term depression	59	73	13453	19747	0.011199098	1	hsa-miR-1193	lycine serine and threonine metabolisi	25	31	11973	19747	0.014956135	1
hsa-let-7d-3p	p53 signaling pathway	53	68	13453	19747	0.050460651	1	hsa-miR-129-5p	Gap junction	77	90	15041	19747	0.020215567	1
hsa-let-7d-3p	RNA degradation	46	57	13453	19747	0.025186946	1	hsa-miR-129-5p	Hypertrophic cardiomyopathy HCM	74	86	15041	19747	0.017191671	1
hsa-let-7d-3p	Protein export	20	23	13453	19747	0.036365672	1	hsa-miR-129-5p	Thyroid cancer	27	29	15041	19747	0.018510692	1
hsa-let-7d-3p	Oocyte meiosis	85	112	13453	19747	0.045245498	1	hsa-miR-129-5p	Cell adhesion molecules CAMs	112	133	15041	19747	0.015633053	1
hsa-let-7d-3p	Calcium signaling pathway	135	178	13453	19747	0.014667575	1	hsa-miR-129-5p	RNA degradation	50	57	15041	19747	0.023400081	1
hsa-let-7d-3p	Vascular smooth muscle contraction	89	116	13453	19747	0.026783035	1	hsa-miR-129-5p	omplement and coagulation cascade	60	69	15041	19747	0.01980246	1
hsa-let-7d-3p	Lysine degradation	36	45	13453	19747	0.056335772	1	hsa-miR-129-5p	Melanoma	62	71	15041			

hsa-let-7d-5p	Prion diseases	35	35	17554	19747	0.016180318	1	hsa-miR-129-5p	GnRH signaling pathway	89	105	15041	19747	0.021326304	1
hsa-let-7d-5p	Metabolic pathways	992	1091	17554	19747	0.014164428	1	hsa-miR-129-5p	nicotinate and nicotinamide metabolisr	22	24	15041	19747	0.051562814	1
hsa-let-7d-5p	Colorectal cancer	82	86	17554	19747	0.031246441	1	hsa-miR-129-5p	Phosphatidylinositol signaling system	66	76	15041	19747	0.015706286	1
hsa-let-7d-5p	Axon guidance	122	129	17554	19747	0.020268786	1	hsa-miR-2278	fosterone regulated sodium reabsorpti	31	42	11306	19747	0.020035688	1
hsa-let-7d-5p	Thyroid cancer	29	29	17554	19747	0.032828982	1	hsa-miR-2278	Inositol phosphate metabolism	39	54	11306	19747	0.016831221	1
hsa-let-7d-5p	Calcium signaling pathway	166	178	17554	19747	0.034442797	1	hsa-miR-2278	NARE interactions in vesicular transp	30	39	11306	19747	0.008526446	1
hsa-let-7d-5p	TGF beta signaling pathway	82	86	17554	19747	0.031246441	1	hsa-miR-2278	Dorso ventral axis formation	19	24	11306	19747	0.021762845	1
hsa-let-7d-5p	Glutathione metabolism	49	50	17554	19747	0.020023868	1	hsa-miR-2278	ogesterone mediated oocyte maturati	59	88	11306	19747	0.038571356	1
hsa-let-7d-5p	Galactose metabolism	26	26	17554	19747	0.046757942	1	hsa-miR-2278	GnRH signaling pathway	70	105	11306	19747	0.030629944	1
hsa-let-7d-5p	Inositol phosphate metabolism	53	54	17554	19747	0.013351776	1	hsa-miR-2278	mTOR signaling pathway	38	53	11306	19747	0.021674902	1
hsa-let-7d-5p	Heparan sulfate biosynthesis	26	26	17554	19747	0.046757942	1	hsa-miR-2278	Type II diabetes mellitus	35	49	11306	19747	0.029367	1
hsa-let-7d-5p	Arginine and proline metabolism	54	55	17554	19747	0.012056963	1	hsa-miR-2278	Selenoamino acid metabolism	21	27	11306	19747	0.022142989	1
hsa-let-7d-5p	N Glycan biosynthesis	45	46	17554	19747	0.029884282	1	hsa-miR-2278	Melanogenesis	70	102	11306	19747	0.012067615	1
hsa-let-7d-5p	RNA degradation	55	57	17554	19747	0.040050942	1	hsa-miR-2278	p53 signaling pathway	49	68	11306	19747	0.008387299	1
hsa-let-7d-5p	Oocyte meiosis	106	112	17554	19747	0.028327238	1	hsa-miR-2278	Toll like receptor signaling pathway	71	105	11306	19747	0.018993353	1
hsa-let-7d-5p	Focal adhesion	189	203	17554	19747	0.029647445	1	hsa-miR-2278	Propanoate metabolism	24	33	11306	19747	0.050081717	1
hsa-let-7d-5p	Peroxisome	76	79	17554	19747	0.019316559	1	hsa-miR-2278	Gap junction	63	90	11306	19747	0.008715118	1
hsa-let-7d-5p	Aminoacyl tRNA biosynthesis	40	41	17554	19747	0.048904127	1	hsa-miR-2278	Notch signaling pathway	34	47	11306	19747	0.02402287	1
hsa-let-7d-5p	Long term potentiation	69	71	17554	19747	0.011305784	1	hsa-miR-2278	Lysine degradation	33	45	11306	19747	0.019268151	1
hsa-let-7d-5p	Hematopoietic cell lineage	83	87	17554	19747	0.02895229	1	hsa-miR-2278	Bladder cancer	31	43	11306	19747	0.032771791	1
hsa-miR-125a-5p	Epithelial cell signaling in Helicobacter pylori infection	52	71	12239	19747	0.031033255	1	hsa-miR-2278	ngolipid biosynthesis lacto and neola	20	26	11306	19747	0.030731305	1
hsa-miR-125a-5p	SNARE interactions in vesicular transport	30	39	12239	19747	0.036052289	1	hsa-miR-2278	Neuroactive ligand receptor interacto	162	259	11306	19747	0.046792822	1
hsa-miR-125a-5p	Hypertrophic cardiomyopathy HCM	63	86	12239	19747	0.018550125	1	hsa-miR-2278	Purine metabolism	103	158	11306	19747	0.025138866	1
hsa-miR-125a-5p	p53 signaling pathway	51	68	12239	19747	0.016323826	1	hsa-miR-2278	NOD like receptor signaling pathway	47	66	11306	19747	0.013698328	1
hsa-miR-125a-5p	Fc epsilon RI signaling pathway	61	82	12239	19747	0.012123327	1	hsa-miR-2278	Tight junction	87	132	11306	19747	0.025965305	1
hsa-miR-125a-5p	Tight junction	94	132	12239	19747	0.016461018	1	hsa-miR-2278	Glycerophospholipid metabolism	50	70	11306	19747	0.010210006	1
hsa-miR-125a-5p	Ubiquitin mediated proteolysis	96	134	12239	19747	0.011976403	1	hsa-miR-2278	TGF beta signaling pathway	58	86	11306	19747	0.034298121	1
hsa-miR-125a-5p	B cell receptor signaling pathway	55	75	12239	19747	0.0259937	1	hsa-miR-3150a-3p	Glycerophospholipid metabolism	54	70	12942	19747	0.02466967	1
hsa-miR-125a-5p	Dilated cardiomyopathy	67	94	12239	19747	0.037794949	1	hsa-miR-3150a-3p	Hematopoietic cell lineage	66	87	12942	19747	0.02519491	1
hsa-miR-125a-5p	TGF beta signaling pathway	64	86	12239	19747	0.010175664	1	hsa-miR-3150a-3p	Fc epsilon RI signaling pathway	63	82	12942	19747	0.018400461	1
hsa-miR-125a-5p	Lysosome	88	121	12239	19747	0.008363704	1	hsa-miR-3150a-3p	Regulation of actin cytoskeleton	151	212	12942	19747	0.045084121	1
hsa-miR-125a-5p	Acute myeloid leukemia	44	58	12239	19747	0.018147089	1	hsa-miR-3150a-3p	nine aspartate and glutamate metabol	26	31	12942	19747	0.020481824	1
hsa-miR-125a-5p	Glycerophospholipid metabolism	53	70	12239	19747	0.010626725	1	hsa-miR-3150a-3p	Primary immunodeficiency	29	35	12942	19747	0.01975798	1
hsa-miR-125a-5p	Bladder cancer	33	43	12239	19747	0.029934223	1	hsa-miR-3150a-3p	Hypertrophic cardiomyopathy HCM	67	86	12942	19747	0.008858962	1
hsa-miR-125a-5p	Adipocytokine signaling pathway	53	70	12239	19747	0.010626725	1	hsa-miR-3150a-3p	Long term depression	55	73	12942	19747	0.047536541	1
hsa-miR-125a-5p	Small cell lung cancer	61	84	12239	19747	0.026762013	1	hsa-miR-3150a-3p	Pantothenate and CoA biosynthesis	14	15	12942	19747	0.015684363	1
hsa-miR-125a-5p	Inositol phosphate metabolism	41	54	12239	19747	0.021749549	1	hsa-miR-3150a-3p	Circadian rhythm mammal	12	13	12942	19747	0.0322121	1
hsa-miR-125a-5p	Keratan sulfate biosynthesis	13	15	12239	19747	0.037979777	1	hsa-miR-3150a-3p	Lysosome	90	121	12942	19747	0.023262579	1
hsa-miR-126-5p	Pancreatic cancer	65	75	15467	19747	0.047496522	1	hsa-miR-3150a-3p	Ubiquitin mediated proteolysis	101	134	12942	19747	0.009067976	1
hsa-miR-126-5p	Melanoma	62	71	15467	19747	0.038806617	1	hsa-miR-3150a-3p	Chemokine signaling pathway	135	189	12942	19747	0.049472257	1
hsa-miR-126-5p	ABC transporters	40	44	15467	19747	0.024834301	1	hsa-miR-3150a-3p	Tight junction	97	132	12942	19747	0.031294237	1
hsa-miR-126-5p	Non homologous end joining	13	13	15467	19747	0.041714741	1	hsa-miR-3150a-3p	icotinate and nicotinamide metabolisr	20	24	12942	19747	0.047095764	1
hsa-miR-126-5p	Insulin signaling pathway	119	139	15467	19747	0.019800334	1	hsa-miR-3150a-3p	Dilated cardiomyopathy	71	94	12942	19747	0.024246214	1
hsa-miR-126-5p	Protein export	22	23	15467	19747	0.026665616	1	hsa-miR-3150a-3p	Dorso ventral axis formation	20	24	12942	19747	0.047095764	1
hsa-miR-126-5p	Chondroitin sulfate biosynthesis	21	22	15467	19747	0.032773318	1	hsa-miR-3150a-3p	rogenic right ventricular cardiomyopat	58	74	12942	19747	0.011578529	1
hsa-miR-126-5p	Selenoamino acid metabolism	25	27	15467	19747	0.048176322	1	hsa-miR-3150a-3p	Arachidonic acid metabolism	46	59	12942	19747	0.027352552	1
hsa-miR-126-5p	Neurotrophin signaling pathway	109	129	15467	19747	0.050892278	1	hsa-miR-3150a-3p	Selenoamino acid metabolism	22	27	12942	19747	0.056774673	1
hsa-miR-126-5p	Vibrio cholerae infection	50	55	15467	19747	0.012084178	1	hsa-miR-3150a-3p	Heparan sulfate biosynthesis	22	26	12942	19747	0.027461456	1
hsa-miR-126-5p	Glyoxylate and dicarboxylate metabolism	16	16	15467	19747	0.020033121	1	hsa-miR-3150a-3p	Taurine and hypotaurine metabolism	10	10	12942	19747	0.014604346	1
hsa-miR-126-5p	Thyroid cancer	27	29	15467	19747	0.033522551	1	hsa-miR-3150a-3p	Vascular smooth muscle contraction	86	116	12942	19747	0.029627176	1
hsa-miR-126-5p	Jak STAT signaling pathway	132	156	15467	19747	0.031018045	1	hsa-miR-3150a-3p	Leukocyte transendothelial migration	86	116	12942	19747	0.029627176	1
hsa-miR-126-5p	Adipocytokine signaling pathway	61	70	15467	19747	0.043812296	1	hsa-miR-3150a-3p	T cell receptor signaling pathway	84	110	12942	19747	0.009361433	1
hsa-miR-126-5p	Long term depression	63	73	15467	19747	0.059620736	1	hsa-miR-3150a-3p	Phosphatidylinositol signaling system	59	76	12942	19747	0.015491775	1
hsa-miR-126-5p	B cell receptor signaling pathway	65	75	15467	19747	0.047496522	1	hsa-miR-3150a-3p	no sugar and nucleotide sugar metab	35	44	12942	19747	0.03227992	1
hsa-miR-126-5p	p53 signaling pathway	61	68	15467	19747	0.011641178	1	hsa-miR-3154	ECM receptor interaction	58	84	11820	19747	0.052048736	1
hsa-miR-126-5p	Cell cycle	107	124	15467	19747	0.016553445	1	hsa-miR-3154	Glycerophospholipid metabolism	49	70	11820	19747	0.051676584	1
hsa-miR-126-5p	Epithelial cell signaling in Helicobacter pylori infection	63	71	15467	19747	0.0181295	1	hsa-miR-3154	Bladder cancer	32	43	11820	19747	0.033830143	1
hsa-miR-126-5p	MAPK signaling pathway	228	272	15467	19747	0.013968803	1	hsa-miR-3154	Primary immunodeficiency	26	35	11820	19747	0.055442733	1
hsa-miR-126-5p	Primary immunodeficiency	33	35	15467	19747	0.010832974	1	hsa-miR-3154	Type I diabetes mellitus	32	44	11820	19747	0.053589211	1
hsa-miR-126-5p	Arrhythmogenic right ventricular cardiomyopathy ARVC	65	74	15467	19747	0.026715264	1	hsa-miR-3154	Notch signaling pathway	34	47	11820	19747	0.052621968	1
hsa-miR-126-5p	Endocytosis	158	187	15467	19747	0.021540473	1	hsa-miR-3154	Viral myocarditis	52	72	11820	19747	0.01981201	1
hsa-miR-126-5p	T cell receptor signaling pathway	95	110	15467	19747	0.022234073	1	hsa-miR-3154	Purine metabolism	109	158	11820	19747	0.010803906	1
hsa-miR-126-5p	Dorso ventral axis formation	23	24	15467	19747	0.021665225	1	hsa-miR-3154	p53 signaling pathway	49	68	11820	19747	0.024836334	1
hsa-miR-126-5p	Prostate cancer	79	89	15467	19747	0.008214747	1	hsa-miR-3154	fosterone regulated sodium reabsorpti	31	42	11820	19747	0.043046445	1
hsa-miR-126-5p	Notch signaling pathway	43	47	15467	19747	0.015242865	1	hsa-miR-3154	no sugar and nucleotide sugar metab	33	44	11820	19747	0.026420492	1
hsa-miR-126-5p	Regulation of actin cytoskeleton	177	212	15467	19747	0.0368869	1	hsa-miR-3154	Long term depression	53	73	11820	19747	0.016031092	1
hsa-miR-126-5p	Acute myeloid leukemia	51	58	15467	19747	0.046290798	1	hsa-miR-3154	Tight junction	92	132	11820	19747	0.012075976	1
hsa-miR-126-5p	Ubiquitin mediated proteolysis	116	134	15467	19747	0.010339428	1	hsa-miR-3154	Lysosome	84	121	11820	19747	0.018525348	1
hsa-miR-126-5p	O Glycan biosynthesis	28	30	15467	19747	0.027883659	1	hsa-miR-3154	Thyroid cancer	23	29	11820	19747	0.022425303	1
hsa-miR-146a-3p	Fc epsilon RI signaling pathway	69	82	14839	19747	0.034547764	1	hsa-miR-3154	Type II diabetes mellitus	37	49	11820	19747	0.016152568	1
hsa-miR-146a-3p	Lysosome	99	121	14839	19747	0.05152839	1	hsa-miR-3154	Heparan sulfate biosynthesis	20	26	11820	19747	0.054147541	1
hsa-miR-146a-3p	Glycosphingolipid biosynthesis lacto and neolacto series	24	26	14839	19747	0.026730806	1	hsa-miR-3154	icotinate and nicotinamide metabolisr	19	24	11820	19747	0.038698682	1
hsa-miR-146a-3p</															

hsa-miR-146a-3p	Dorso ventral axis formation	23	24	14839	19747	0.009365122	1	hsa-miR-3154	GnRH signaling pathway	74	105	11820	19747	0.015530178	1
hsa-miR-146a-3p	Vascular smooth muscle contraction	98	116	14839	19747	0.010316595	1	hsa-miR-3154	Melanoma	51	71	11820	19747	0.024377038	1
hsa-miR-146a-3p	Tight junction	111	132	14839	19747	0.008832014	1	hsa-miR-3154	VEGF signaling pathway	57	78	11820	19747	0.010296849	1
hsa-miR-146a-3p	Bladder cancer	38	43	14839	19747	0.026844458	1	hsa-miR-3154	Dorso ventral axis formation	19	24	11820	19747	0.038698682	1
hsa-miR-146a-3p	Systemic lupus erythematosus	112	136	14839	19747	0.028734346	1	hsa-miR-3173-3p	Dorso ventral axis formation	19	24	10610	19747	0.009178643	1
hsa-miR-146a-3p	Long term depression	63	73	14839	19747	0.014925458	1	hsa-miR-3173-3p	Toll like receptor signaling pathway	67	105	10610	19747	0.023251172	1
hsa-miR-146a-3p	Inositol phosphate metabolism	48	54	14839	19747	0.010106973	1	hsa-miR-3173-3p	Dilated cardiomyopathy	60	94	10610	19747	0.030353476	1
hsa-miR-146a-3p	p53 signaling pathway	57	68	14839	19747	0.059824841	1	hsa-miR-3173-3p	Lysosome	77	121	10610	19747	0.017269904	1
hsa-miR-146a-3p	Keratan sulfate biosynthesis	15	15	14839	19747	0.013733727	1	hsa-miR-3173-3p	Chondroitin sulfate biosynthesis	16	22	10610	19747	0.055733936	1
hsa-miR-146a-3p	Melanoma	61	71	14839	19747	0.020102617	1	hsa-miR-3173-3p	Oocyte meiosis	70	112	10610	19747	0.037559296	1
hsa-miR-146a-3p	Lysine degradation	40	45	14839	19747	0.018796472	1	hsa-miR-3173-3p	Pentose phosphate pathway	19	27	10610	19747	0.059864389	1
hsa-miR-146a-3p	Protein export	21	23	14839	19747	0.050662454	1	hsa-miR-3173-3p	Type II diabetes mellitus	35	49	10610	19747	0.008646743	1
hsa-miR-146a-3p	Prion diseases	32	35	14839	19747	0.014200168	1	hsa-miR-3173-3p	Hematopoietic cell lineage	56	87	10610	19747	0.008852024	1
hsa-miR-146a-3p	Type II diabetes mellitus	44	49	14839	19747	0.008983376	1	hsa-miR-3173-3p	Progesterone mediated oocyte maturation	57	88	10610	19747	0.023373628	1
hsa-miR-146a-3p	Chondroitin sulfate biosynthesis	21	22	14839	19747	0.015366784	1	hsa-miR-3173-3p	al cell signaling in Helicobacter pylori	47	71	10610	19747	0.022338956	1
hsa-miR-146a-3p	Hematopoietic cell lineage	74	87	14839	19747	0.017832051	1	hsa-miR-3173-3p	Keratan sulfate biosynthesis	12	15	10610	19747	0.034280909	1
hsa-miR-146a-3p	Fructose and mannose metabolism	31	35	14839	19747	0.04255101	1	hsa-miR-3173-3p	Inositol phosphate metabolism	37	54	10610	19747	0.019336558	1
hsa-miR-146a-5p	Phosphatidylinositol signaling system	61	76	13787	19747	0.027849222	1	hsa-miR-3173-3p	Apoptosis	57	87	10610	19747	0.01706024	1
hsa-miR-146a-5p	mTOR signaling pathway	44	53	13787	19747	0.021674514	1	hsa-miR-3173-3p	Hypertrophic cardiomyopathy HCM	55	86	10610	19747	0.035351634	1
hsa-miR-146a-5p	Pantothenate and CoA biosynthesis	14	15	13787	19747	0.034124664	1	hsa-miR-3173-3p	TGF beta signaling pathway	54	86	10610	19747	0.056258358	1
hsa-miR-146a-5p	One carbon pool by folate	16	17	13787	19747	0.018545948	1	hsa-miR-3173-3p	Bladder cancer	29	43	10610	19747	0.047982555	1
hsa-miR-146a-5p	Lysosome	95	121	13787	19747	0.02082482	1	hsa-miR-3173-3p	ECM receptor interaction	54	84	10610	19747	0.032459701	1
hsa-miR-146a-5p	B cell receptor signaling pathway	60	75	13787	19747	0.032528196	1	hsa-miR-3173-3p	Gap junction	60	90	10610	19747	0.008565727	1
hsa-miR-146a-5p	Acute myeloid leukemia	49	58	13787	19747	0.008086579	1	hsa-miR-3173-3p	Adipocytokine signaling pathway	48	70	10610	19747	0.00813326	1
hsa-miR-146a-5p	Chemokine signaling pathway	146	189	13787	19747	0.013876084	1	hsa-miR-3173-3p	GnRH signaling pathway	68	105	10610	19747	0.014224916	1
hsa-miR-146a-5p	Fc gamma R mediated phagocytosis	77	97	13787	19747	0.022967933	1	hsa-miR-3173-3p	mTOR signaling pathway	35	53	10610	19747	0.047214073	1
hsa-miR-146a-5p	Long term depression	59	73	13787	19747	0.023740011	1	hsa-miR-3661	Regulation of actin cytoskeleton	100	212	8111	19747	0.041222497	1
hsa-miR-146a-5p	Dorso ventral axis formation	22	24	13787	19747	0.011294255	1	hsa-miR-3661	Myogenic right ventricular cardiomyopathy	38	74	8111	19747	0.047179065	1
hsa-miR-146a-5p	VEGF signaling pathway	62	78	13787	19747	0.037442557	1	hsa-miR-3661	Apoptosis	47	87	8111	19747	0.00983657	1
hsa-miR-146a-5p	Toll like receptor signaling pathway	83	105	13787	19747	0.022339319	1	hsa-miR-3661	Long term depression	38	73	8111	19747	0.037497092	1
hsa-miR-146a-5p	Leukocyte transendothelial migration	93	116	13787	19747	0.007992306	1	hsa-miR-3661	Melanoma	38	71	8111	19747	0.022724675	1
hsa-miR-146a-5p	Pyrimidine metabolism	77	98	13787	19747	0.034361276	1	hsa-miR-3661	Tight junction	64	132	8111	19747	0.050442049	1
hsa-miR-146a-5p	Purine metabolism	122	158	13787	19747	0.023639504	1	hsa-miR-3661	One carbon pool by folate	11	17	8111	19747	0.042498906	1
hsa-miR-146a-5p	Bladder cancer	36	43	13787	19747	0.029301607	1	hsa-miR-3661	Phosphatidylinositol signaling system	42	76	8111	19747	0.008601893	1
hsa-miR-146a-5p	Fc epsilon RI signaling pathway	65	82	13787	19747	0.036920378	1	hsa-miR-3661	B cell receptor signaling pathway	40	75	8111	19747	0.021182788	1
hsa-miR-146a-5p	GnRH signaling pathway	82	105	13787	19747	0.037511467	1	hsa-miR-3661	ngolipid biosynthesis lacto and neola	17	26	8111	19747	0.01064724	1
hsa-miR-146a-5p	Spliceosome	97	126	13787	19747	0.045823097	1	hsa-miR-3661	Keratan sulfate biosynthesis	10	15	8111	19747	0.040870163	1
hsa-miR-146a-5p	RNA degradation	48	57	13787	19747	0.009904412	1	hsa-miR-3661	Vascular smooth muscle contraction	58	116	8111	19747	0.038111005	1
hsa-miR-146a-5p	Progesterone mediated oocyte maturation	69	88	13787	19747	0.047007485	1	hsa-miR-3661	Bladder cancer	24	43	8111	19747	0.036015849	1
hsa-miR-146a-5p	SNARE interactions in vesicular transport	34	39	13787	19747	0.010182219	1	hsa-miR-3661	Peroxisome	41	79	8111	19747	0.033359264	1
hsa-miR-146a-5p	Basal cell carcinoma	46	55	13787	19747	0.01473651	1	hsa-miR-3661	RNA degradation	31	57	8111	19747	0.028881874	1
hsa-miR-146a-5p	Cell cycle	98	124	13787	19747	0.013884881	1	hsa-miR-3661	Amyotrophic lateral sclerosis ALS	29	55	8111	19747	0.053393557	1
hsa-miR-146a-5p	Melanogenesis	80	102	13787	19747	0.033650718	1	hsa-miR-3661	Adipocytokine signaling pathway	37	70	8111	19747	0.030514485	1
hsa-miR-146a-5p	Protein export	20	23	13787	19747	0.051795244	1	hsa-miR-3661	Fc epsilon RI signaling pathway	42	82	8111	19747	0.04016241	1
hsa-miR-146b-5p	Lysosome	94	121	13741	19747	0.030019258	1	hsa-miR-3661	Melanogenesis	52	102	8111	19747	0.027043696	1
hsa-miR-146b-5p	Dorso ventral axis formation	22	24	13741	19747	0.01063272	1	hsa-miR-3661	Thyroid cancer	18	29	8111	19747	0.018156897	1
hsa-miR-146b-5p	Leukocyte transendothelial migration	92	116	13741	19747	0.012441542	1	hsa-miR-3661	TGF beta signaling pathway	43	86	8111	19747	0.058312151	1
hsa-miR-146b-5p	RNA degradation	47	57	13741	19747	0.020519617	1	hsa-miR-3661	Basal cell carcinoma	29	55	8111	19747	0.053393557	1
hsa-miR-146b-5p	Phosphatidylinositol signaling system	61	76	13741	19747	0.025220765	1	hsa-miR-3661	Ether lipid metabolism	22	36	8111	19747	0.012015165	1
hsa-miR-146b-5p	Chemokine signaling pathway	145	189	13741	19747	0.017795555	1	hsa-miR-3661	Type II diabetes mellitus	27	49	8111	19747	0.032881885	1
hsa-miR-146b-5p	Spliceosome	97	126	13741	19747	0.040701906	1	hsa-miR-3661	Hypertrophic cardiomyopathy HCM	45	86	8111	19747	0.022641021	1
hsa-miR-146b-5p	Fc gamma R mediated phagocytosis	76	97	13741	19747	0.035331496	1	hsa-miR-3661	Dilated cardiomyopathy	50	94	8111	19747	0.011567141	1
hsa-miR-146b-5p	SNARE interactions in vesicular transport	34	39	13741	19747	0.009403487	1	hsa-miR-3661	Small cell lung cancer	44	84	8111	19747	0.023502803	1
hsa-miR-146b-5p	B cell receptor signaling pathway	59	75	13741	19747	0.052889518	1	hsa-miR-3691-5p	TGF beta signaling pathway	51	86	9774	19747	0.042964429	1
hsa-miR-146b-5p	Basal cell carcinoma	46	55	13741	19747	0.013448409	1	hsa-miR-3691-5p	mTOR signaling pathway	35	53	9774	19747	0.0110802	1
hsa-miR-146b-5p	Purine metabolism	123	158	13741	19747	0.012869595	1	hsa-miR-3691-5p	Circadian rhythm mammal	10	13	9774	19747	0.042678353	1
hsa-miR-146b-5p	Cell cycle	98	124	13741	19747	0.012053445	1	hsa-miR-3691-5p	Progesterone regulated sodium reabsorption	28	42	9774	19747	0.018502771	1
hsa-miR-146b-5p	VEGF signaling pathway	62	78	13741	19747	0.034024219	1	hsa-miR-3691-5p	VEGF signaling pathway	47	78	9774	19747	0.036372735	1
hsa-miR-146b-5p	Melanogenesis	80	102	13741	19747	0.030081463	1	hsa-miR-3691-5p	Taurine and hypotaurine metabolism	8	10	9774	19747	0.051189864	1
hsa-miR-146b-5p	Pantothenate and CoA biosynthesis	14	15	13741	19747	0.032767333	1	hsa-miR-3691-5p	Melanoma	43	71	9774	19747	0.03979697	1
hsa-miR-146b-5p	Notch signaling pathway	38	47	13741	19747	0.059718289	1	hsa-miR-3691-5p	Melanogenesis	62	102	9774	19747	0.014176706	1
hsa-miR-146b-5p	Circadian rhythm mammal	12	13	13741	19747	0.059870169	1	hsa-miR-3691-5p	Chemokine signaling pathway	110	189	9774	19747	0.009759687	1
hsa-miR-146b-5p	mTOR signaling pathway	43	53	13741	19747	0.042169393	1	hsa-miR-3691-5p	NARE interactions in vesicular transport	26	39	9774	19747	0.022875518	1
hsa-miR-146b-5p	Pyrimidine metabolism	78	98	13741	19747	0.017630628	1	hsa-miR-3691-5p	Fructose and mannose metabolism	23	35	9774	19747	0.039281864	1
hsa-miR-146b-5p	Fc epsilon RI signaling pathway	65	82	13741	19747	0.033456979	1	hsa-miR-3691-5p	Renal cell carcinoma	44	71	9774	19747	0.023121078	1
hsa-miR-146b-5p	Long term depression	59	73	13741	19747	0.021492603	1	hsa-miR-3691-5p	Fc gamma R mediated phagocytosis	57	97	9774	19747	0.04177978	1
hsa-miR-146b-5p	Protein export	20	23	13741	19747	0.049385614	1	hsa-miR-3691-5p	Cysteine and methionine metabolism	24	35	9774	19747	0.017634589	1
hsa-miR-146b-5p	GnRH signaling pathway	81	105	13741	19747	0.054137041	1	hsa-miR-3691-5p	Focal adhesion	114	203	9774	19747	0.032970746	1
hsa-miR-146b-5p	Toll like receptor signaling pathway	83	105	13741	19747	0.019785522	1	hsa-miR-3691-5p	Acute myeloid leukemia	38	58	9774	19747	0.010028665	1
hsa-miR-146b-5p	Bladder cancer	36	43	13741	19747	0.027240981	1	hsa-miR-3691-5p	Glioma	41	65	9774	19747	0.018913317	1
hsa-miR-151a-3p	Melanoma	60	71	14207	19747	0.009090638	1	hsa-miR-3691-5p	Type II diabetes mellitus	28	44	9774	19747	0.041577129	1
hsa-miR-151a-3p	Acute myeloid leukemia	48	58	14207	19747	0.040922614	1	hsa-miR-3691-5p	Lysine serine and threonine metabolism	21	31	9774	19747	0.031119979	1
hsa-miR-151a-3p	Chemokine signaling pathway	149	189	1420											

hsa-miR-151a-3p	Leukocyte transendothelial migration	93	116	14207	19747	0.02743152	1	hsa-miR-3691-5p	Sphingolipid metabolism	25	39	9774	19747	0.047330002	1
hsa-miR-151a-3p	Gap junction	75	90	14207	19747	0.008496904	1	hsa-miR-3691-5p	rogenic right ventricular cardiomyopat	45	74	9774	19747	0.03303913	1
hsa-miR-151a-3p	Cell adhesion molecules CAMs	108	133	14207	19747	0.009122186	1	hsa-miR-3691-5p	RIG I like receptor signaling pathway	47	74	9774	19747	0.010461176	1
hsa-miR-151a-3p	Bladder cancer	36	43	14207	19747	0.055188906	1	hsa-miR-3691-5p	Toll like receptor signaling pathway	61	105	9774	19747	0.047361515	1
hsa-miR-151a-3p	O Glycan biosynthesis	26	30	14207	19747	0.048769692	1	hsa-miR-3691-5p	Endometrial cancer	33	52	9774	19747	0.02974917	1
hsa-miR-151a-3p	Melanogenesis	83	102	14207	19747	0.018997787	1	hsa-miR-375	Dermal melanogenesis	67	102	10779	19747	0.014781644	1
hsa-miR-151a-3p	Propanoate metabolism	29	33	14207	19747	0.025957931	1	hsa-miR-375	Oocyte meiosis	70	112	10779	19747	0.054994513	1
hsa-miR-151a-3p	ECM receptor interaction	70	84	14207	19747	0.010862954	1	hsa-miR-375	Basal cell carcinoma	37	55	10779	19747	0.038238777	1
hsa-miR-151a-3p	Fc gamma R mediated phagocytosis	79	97	14207	19747	0.02102254	1	hsa-miR-375	mTOR signaling pathway	38	53	10779	19747	0.008058202	1
hsa-miR-151a-3p	Neuroactive ligand receptor interaction	199	259	14207	19747	0.043264974	1	hsa-miR-375	Small cell lung cancer	56	84	10779	19747	0.016240155	1
hsa-miR-151a-3p	Inositol phosphate metabolism	45	54	14207	19747	0.038429741	1	hsa-miR-375	Glioma	45	65	10779	19747	0.011330666	1
hsa-miR-151a-3p	Long term depression	59	73	14207	19747	0.055434459	1	hsa-miR-375	Insulin signaling pathway	90	139	10779	19747	0.009448855	1
hsa-miR-151a-3p	B cell receptor signaling pathway	63	75	14207	19747	0.010893175	1	hsa-miR-375	Neurotrophin signaling pathway	83	129	10779	19747	0.015425856	1
hsa-miR-151a-3p	Neurotrophin signaling pathway	105	129	14207	19747	0.008800193	1	hsa-miR-375	Renal cell carcinoma	48	71	10779	19747	0.017459899	1
hsa-miR-151a-3p	Taurine and hypotaurine metabolism	10	10	14207	19747	0.037121581	1	hsa-miR-375	Pancreatic cancer	50	75	10779	19747	0.022387825	1
hsa-miR-151a-3p	p53 signaling pathway	57	68	14207	19747	0.016529718	1	hsa-miR-375	Iosterone regulated sodium reabsorpti	30	42	10779	19747	0.019274907	1
hsa-miR-151a-3p	Dilated cardiomyopathy	75	94	14207	19747	0.053545457	1	hsa-miR-375	Non small cell lung cancer	37	54	10779	19747	0.026042829	1
hsa-miR-151a-3p	Amyotrophic lateral sclerosis ALS	47	55	14207	19747	0.014527923	1	hsa-miR-375	Taurine and hypotaurine metabolism	9	10	10779	19747	0.021861699	1
hsa-miR-151a-3p	Lysosome	96	121	14207	19747	0.040222073	1	hsa-miR-375	VEGF signaling pathway	53	78	10779	19747	0.01111727	1
hsa-miR-151a-3p	Chondroitin sulfate biosynthesis	20	22	14207	19747	0.031874644	1	hsa-miR-375	Acute myeloid leukemia	39	58	10779	19747	0.0342155	1
hsa-miR-151a-3p	Notch signaling pathway	39	47	14207	19747	0.058954468	1	hsa-miR-375	ECM receptor interaction	54	84	10779	19747	0.040616759	1
hsa-miR-151a-3p	Regulation of actin cytoskeleton	164	212	14207	19747	0.043625475	1	hsa-miR-375	Chronic myeloid leukemia	51	75	10779	19747	0.01234735	1
hsa-miR-151a-3p	Heparan sulfate biosynthesis	23	26	14207	19747	0.04101137	1	hsa-miR-375	Hedgehog signaling pathway	38	56	10779	19747	0.029999109	1
hsa-miR-151a-3p	Long term potentiation	60	71	14207	19747	0.009909638	1	hsa-miR-375	GnRH signaling pathway	67	105	10779	19747	0.034735959	1
hsa-miR-151a-3p	Non homologous end joining	13	13	14207	19747	0.013814877	1	hsa-miR-375	Tight junction	85	132	10779	19747	0.013947077	1
hsa-miR-151a-3p	Type II diabetes mellitus	41	49	14207	19747	0.042272403	1	hsa-miR-375	Vibrio cholerae infection	38	55	10779	19747	0.020109665	1
hsa-miR-151a-3p	Dorso ventral axis formation	22	24	14207	19747	0.019299962	1	hsa-miR-375	Amyotrophic lateral sclerosis ALS	38	55	10779	19747	0.020109665	1
hsa-miR-151a-3p	VEGF signaling pathway	65	78	14207	19747	0.013913877	1	hsa-miR-375	Endometrial cancer	37	52	10779	19747	0.01078743	1
hsa-miR-151a-5p	Melanoma	62	71	15295	19747	0.026622362	1	hsa-miR-382-3p	Focal adhesion	75	203	6099	19747	0.037268925	1
hsa-miR-151a-5p	Oocyte meiosis	94	112	15295	19747	0.058939158	1	hsa-miR-382-3p	Oocyte meiosis	45	112	6099	19747	0.022825422	1
hsa-miR-151a-5p	Arrhythmogenic right ventricular cardiomyopathy ARVC	66	74	15295	19747	0.007622827	1	hsa-miR-382-3p	Pantothenate and CoA biosynthesis	8	15	6099	19747	0.058648236	1
hsa-miR-151a-5p	Epithelial cell signaling in Helicobacter pylori infection	62	71	15295	19747	0.026622362	1	hsa-miR-382-3p	Regulation of autophagy	17	34	6099	19747	0.015252058	1
hsa-miR-151a-5p	B cell receptor signaling pathway	66	75	15295	19747	0.015470388	1	hsa-miR-382-3p	Hedgehog signaling pathway	26	56	6099	19747	0.01036029	1
hsa-miR-151a-5p	Pancreatic cancer	66	75	15295	19747	0.015470388	1	hsa-miR-382-3p	Wnt signaling pathway	60	152	6099	19747	0.014770139	1
hsa-miR-151a-5p	Bladder cancer	38	43	15295	19747	0.055590559	1	hsa-miR-382-3p	Jak STAT signaling pathway	58	156	6099	19747	0.054171278	1
hsa-miR-151a-5p	Endometrial cancer	47	52	15295	19747	0.013590234	1	hsa-miR-382-3p	O Glycan biosynthesis	14	30	6099	19747	0.050371389	1
hsa-miR-151a-5p	Colorectal cancer	75	86	15295	19747	0.016336401	1	hsa-miR-382-3p	mTOR signaling pathway	24	53	6099	19747	0.019095955	1
hsa-miR-151a-5p	Phosphatidylinositol signaling system	66	76	15295	19747	0.028763411	1	hsa-miR-382-3p	Butanoate metabolism	18	35	6099	19747	0.008874463	1
hsa-miR-151a-5p	Calcium signaling pathway	151	178	15295	19747	0.009200527	1	hsa-miR-382-3p	Peroxisome	33	79	6099	19747	0.026163415	1
hsa-miR-151a-5p	Adipocytokine signaling pathway	62	70	15295	19747	0.01376775	1	hsa-miR-382-3p	Colorectal cancer	34	86	6099	19747	0.054491605	1
hsa-miR-151a-5p	Chemokine signaling pathway	159	189	15295	19747	0.014513495	1	hsa-miR-382-3p	Pancreatic cancer	31	75	6099	19747	0.035425416	1
hsa-miR-151a-5p	Small cell lung cancer	73	84	15295	19747	0.021120772	1	hsa-miR-382-3p	Prostate cancer	35	89	6099	19747	0.055592555	1
hsa-miR-151a-5p	Glycosphingolipid biosynthesis ganglio series	15	15	15295	19747	0.021629814	1	hsa-miR-382-3p	Dorso ventral axis formation	12	24	6099	19747	0.038978787	1
hsa-miR-151a-5p	Keratan sulfate biosynthesis	15	15	15295	19747	0.021629814	1	hsa-miR-382-3p	Gap junction	36	90	6099	19747	0.041259515	1
hsa-miR-151a-5p	ErbB signaling pathway	78	89	15295	19747	0.010998208	1	hsa-miR-382-3p	Fatty acid biosynthesis	5	6	6099	19747	0.01251117	1
hsa-miR-151a-5p	Notch signaling pathway	42	47	15295	19747	0.030300511	1	hsa-miR-382-3p	Porphyrin and chlorophyll metabolism	19	41	6099	19747	0.02687382	1
hsa-miR-151a-5p	Vascular smooth muscle contraction	98	116	15295	19747	0.039917102	1	hsa-miR-382-3p	Endocytosis	69	187	6099	19747	0.045340913	1
hsa-miR-151a-5p	Circadian rhythm mammal	13	13	15295	19747	0.03606858	1	hsa-miR-382-3p	p53 signaling pathway	29	68	6099	19747	0.026597929	1
hsa-miR-151a-5p	Non small cell lung cancer	48	54	15295	19747	0.025693189	1	hsa-miR-382-3p	ErbB signaling pathway	39	89	6099	19747	0.006735532	1
hsa-miR-151a-5p	Hedgehog signaling pathway	49	56	15295	19747	0.043996238	1	hsa-miR-382-3p	Phosphatidylinositol signaling system	34	76	6099	19747	0.007518421	1
hsa-miR-151a-5p	Basal cell carcinoma	50	55	15295	19747	0.008233654	1	hsa-miR-382-3p	Renal cell carcinoma	30	71	6099	19747	0.027937631	1
hsa-miR-151a-5p	Renal cell carcinoma	62	71	15295	19747	0.026622362	1	hsa-miR-382-3p	ntesis and degradation of ketone boc	6	9	6099	19747	0.029194003	1
hsa-miR-181b-5p	Basal cell carcinoma	43	55	13039	19747	0.035558597	1	hsa-miR-382-3p	Inositol phosphate metabolism	23	54	6099	19747	0.045673865	1
hsa-miR-181b-5p	Bladder cancer	34	43	13039	19747	0.045962484	1	hsa-miR-382-3p	MAPK signaling pathway	102	272	6099	19747	0.011293773	1
hsa-miR-181b-5p	Notch signaling pathway	37	47	13039	19747	0.042230251	1	hsa-miR-382-3p	Axon guidance	52	129	6099	19747	0.014287591	1
hsa-miR-181b-5p	Pancreatic cancer	57	75	13039	19747	0.041352364	1	hsa-miR-382-3p	Calcium signaling pathway	69	178	6099	19747	0.014991104	1
hsa-miR-181b-5p	Chemokine signaling pathway	137	189	13039	19747	0.033834747	1	hsa-miR-382-3p	RIG I like receptor signaling pathway	31	74	6099	19747	0.02922292	1
hsa-miR-181b-5p	Regulation of actin cytoskeleton	155	212	13039	19747	0.015878033	1	hsa-miR-382-5p	Renal cell carcinoma	48	71	10473	19747	0.008911862	1
hsa-miR-181b-5p	Primary immunodeficiency	29	35	13039	19747	0.022749498	1	hsa-miR-382-5p	Type I diabetes mellitus	29	44	10473	19747	0.058146232	1
hsa-miR-181b-5p	Fc epsilon RI signaling pathway	63	82	13039	19747	0.022939101	1	hsa-miR-382-5p	Pantothenate and CoA biosynthesis	12	15	10473	19747	0.03043232	1
hsa-miR-181b-5p	Arrhythmogenic right ventricular cardiomyopathy ARVC	56	74	13039	19747	0.048536327	1	hsa-miR-382-5p	al cell signaling in Helicobacter pylori i	47	71	10473	19747	0.016825035	1
hsa-miR-181b-5p	GnRH signaling pathway	80	105	13039	19747	0.015873817	1	hsa-miR-382-5p	Basal cell carcinoma	37	55	10473	19747	0.022715385	1
hsa-miR-181b-5p	Amyotrophic lateral sclerosis ALS	44	55	13039	19747	0.017253969	1	hsa-miR-382-5p	Glycerolipid metabolism	31	46	10473	19747	0.034390888	1
hsa-miR-181b-5p	Oocyte meiosis	84	112	13039	19747	0.025933598	1	hsa-miR-382-5p	TGF beta signaling pathway	56	86	10473	19747	0.015503184	1
hsa-miR-181b-5p	Heparan sulfate biosynthesis	23	26	13039	19747	0.009313758	1	hsa-miR-382-5p	Lysine degradation	30	45	10473	19747	0.044913146	1
hsa-miR-181b-5p	Nicotinate and nicotinamide metabolism	20	24	13039	19747	0.052102319	1	hsa-miR-382-5p	NARE interactions in vesicular transp	26	39	10473	19747	0.059845979	1
hsa-miR-181b-5p	Progesterone mediated oocyte maturation	67	88	13039	19747	0.026673659	1	hsa-miR-382-5p	mTOR signaling pathway	37	53	10473	19747	0.009594547	1
hsa-miR-181b-5p	Long term depression	57	73	13039	19747	0.017439873	1	hsa-miR-382-5p	Nitrogen metabolism	18	23	10473	19747	0.011623203	1
hsa-miR-181b-5p	Gap junction	68	90	13039	19747	0.03335606	1	hsa-miR-382-5p	Biosynthesis of unsaturated fatty acids	16	22	10473	19747	0.048812775	1
hsa-miR-181b-5p	Insulin signaling pathway	103	139	13039	19747	0.025172947	1	hsa-miR-382-5p	Type II diabetes mellitus	32	49	10473	19747	0.05610131	1
hsa-miR-181b-5p	Dorso ventral axis formation	20	24	13039	19747	0.052102319	1	hsa-miR-382-5p	Leukocyte transendothelial migration	73	116	10473	19747	0.019733822	1
hsa-miR-181b-5p	Pentose and glucuronate interconversions	23	28	13039	19747	0.049555529	1	hsa-miR-382-5p	Circadian rhythm mammal	11	13	10473	19747	0.019321349	1
hsa-miR-181b-5p	Adipocytokine signaling pathway	53	70												

hsa-miR-181b-5p	Hedgehog signaling pathway	45	56	13039	19747	0.013959318	1	hsa-miR-382-5p	Melanoma	47	71	10473	19747	0.016825035	1
hsa-miR-181b-5p	Leukocyte transendothelial migration	89	116	13039	19747	0.008202294	1	hsa-miR-382-5p	Small cell lung cancer	55	84	10473	19747	0.014020331	1
hsa-miR-181b-5p	Endometrial cancer	41	52	13039	19747	0.031852	1	hsa-miR-382-5p	Allograft rejection	26	38	10473	19747	0.039683848	1
hsa-miR-181b-5p	Inositol phosphate metabolism	43	54	13039	19747	0.021247706	1	hsa-miR-382-5p	Thyroid cancer	22	29	10473	19747	0.010017263	1
hsa-miR-181b-5p	TGF beta signaling pathway	66	86	13039	19747	0.020991847	1	hsa-miR-382-5p	VEGF signaling pathway	50	78	10473	19747	0.03150568	1
hsa-miR-221-3p	Melanoma	54	71	13035	19747	0.045100034	1	hsa-miR-382-5p	Hedgehog signaling pathway	39	56	10473	19747	0.008438977	1
hsa-miR-221-3p	Leukocyte transendothelial migration	89	116	13035	19747	0.008102187	1	hsa-miR-4263	al cell signaling in Helicobacter pylori i	38	71	8277	19747	0.031822208	1
hsa-miR-221-3p	Long term depression	55	73	13035	19747	0.056365756	1	hsa-miR-4263	Long term potentiation	40	71	8277	19747	0.009889218	1
hsa-miR-221-3p	Inositol phosphate metabolism	43	54	13035	19747	0.021093158	1	hsa-miR-4263	NOD like receptor signaling pathway	37	66	8277	19747	0.014151603	1
hsa-miR-221-3p	Amyotrophic lateral sclerosis ALS	43	55	13035	19747	0.035317657	1	hsa-miR-4263	Fc gamma R mediated phagocytosis	52	97	8277	19747	0.013126809	1
hsa-miR-221-3p	TGF beta signaling pathway	65	86	13035	19747	0.036289895	1	hsa-miR-4263	Hedgehog signaling pathway	32	56	8277	19747	0.015298315	1
hsa-miR-221-3p	ABC transporters	35	44	13035	19747	0.037175846	1	hsa-miR-4263	NARE interactions in vesicular transp	23	39	8277	19747	0.023535606	1
hsa-miR-221-3p	Hedgehog signaling pathway	43	56	13035	19747	0.055793475	1	hsa-miR-4263	Regulation of actin cytoskeleton	101	212	8277	19747	0.052193903	1
hsa-miR-221-3p	Calcium signaling pathway	130	178	13035	19747	0.026584496	1	hsa-miR-4263	Leukocyte transendothelial migration	61	116	8277	19747	0.012933948	1
hsa-miR-221-3p	Melanogenesis	77	102	13035	19747	0.025079539	1	hsa-miR-4263	Acute myeloid leukemia	32	58	8277	19747	0.028426772	1
hsa-miR-221-3p	Aldosterone regulated sodium reabsorption	33	42	13035	19747	0.055914809	1	hsa-miR-4263	Long term depression	41	73	8277	19747	0.009727778	1
hsa-miR-221-3p	Chondroitin sulfate biosynthesis	20	22	13035	19747	0.007883717	1	hsa-miR-4263	rogenic right ventricular cardiomyopat	39	74	8277	19747	0.039441271	1
hsa-miR-221-3p	Glycosphingolipid biosynthesis lacto and neolacto series	22	26	13035	19747	0.030668088	1	hsa-miR-4263	ABC transporters	25	44	8277	19747	0.032772656	1
hsa-miR-221-3p	SNARE interactions in vesicular transport	31	39	13035	19747	0.049685848	1	hsa-miR-4263	Cell adhesion molecules CAMs	66	133	8277	19747	0.043380708	1
hsa-miR-221-3p	MAPK signaling pathway	197	272	13035	19747	0.013403711	1	hsa-miR-4263	Melanogenesis	53	102	8277	19747	0.025567278	1
hsa-miR-221-3p	Thyroid cancer	25	29	13035	19747	0.013404813	1	hsa-miR-4263	Gap junction	46	90	8277	19747	0.048681254	1
hsa-miR-221-3p	Non small cell lung cancer	44	54	13035	19747	0.009427157	1	hsa-miR-4263	Vascular smooth muscle contraction	60	116	8277	19747	0.020586963	1
hsa-miR-221-3p	Hypertrophic cardiomyopathy HCM	64	86	13035	19747	0.059901764	1	hsa-miR-433-3p	Biosynthesis of unsaturated fatty acids	15	22	9123	19747	0.031505489	1
hsa-miR-221-3p	Pancreatic cancer	59	75	13035	19747	0.011851009	1	hsa-miR-433-3p	Selenoamino acid metabolism	17	27	9123	19747	0.059979204	1
hsa-miR-221-5p	Dorso ventral axis formation	22	24	13873	19747	0.012632189	1	hsa-miR-433-3p	Phosphatidylinositol signaling system	45	76	9123	19747	0.015298821	1
hsa-miR-221-5p	Lysosome	96	121	13873	19747	0.015851566	1	hsa-miR-433-3p	Cytokine cytokine receptor interaction	141	266	9123	19747	0.014732845	1
hsa-miR-221-5p	Basal cell carcinoma	47	55	13873	19747	0.007241117	1	hsa-miR-433-3p	Toll like receptor signaling pathway	60	105	9123	19747	0.01560768	1
hsa-miR-221-5p	Gap junction	71	90	13873	19747	0.043187493	1	hsa-miR-433-3p	p53 signaling pathway	39	68	9123	19747	0.04233093	1
hsa-miR-221-5p	Fc epsilon RI signaling pathway	66	82	13873	19747	0.024740947	1	hsa-miR-433-3p	Chemokine signaling pathway	102	189	9123	19747	0.018935732	1
hsa-miR-221-5p	Progesterone mediated oocyte maturation	69	88	13873	19747	0.056203284	1	hsa-miR-433-3p	Gap junction	50	90	9123	19747	0.046826983	1
hsa-miR-221-5p	p53 signaling pathway	57	68	13873	19747	0.007649067	1	hsa-miR-433-3p	Natural killer cell mediated cytotoxicity	76	137	9123	19747	0.018035853	1
hsa-miR-221-5p	Type II diabetes mellitus	41	49	13873	19747	0.02411391	1	hsa-miR-433-3p	Adherens junction	45	76	9123	19747	0.015298821	1
hsa-miR-221-5p	Bladder cancer	37	43	13873	19747	0.013524613	1	hsa-miR-433-3p	RIG I like receptor signaling pathway	43	74	9123	19747	0.026207225	1
hsa-miR-221-5p	Chemokine signaling pathway	147	189	13873	19747	0.012502108	1	hsa-miR-433-3p	Lysosome	66	121	9123	19747	0.039767055	1
hsa-miR-221-5p	Acute myeloid leukemia	49	58	13873	19747	0.009742169	1	hsa-miR-433-3p	Non small cell lung cancer	32	54	9123	19747	0.036777314	1
hsa-miR-221-5p	Small cell lung cancer	67	84	13873	19747	0.033290817	1	hsa-miR-433-3p	Dorso ventral axis formation	16	24	9123	19747	0.035456716	1
hsa-miR-221-5p	Inositol phosphate metabolism	46	54	13873	19747	0.008910283	1	hsa-miR-433-3p	Endometrial cancer	31	52	9123	19747	0.035746922	1
hsa-miR-221-5p	Adipocytokine signaling pathway	58	70	13873	19747	0.011686454	1	hsa-miR-433-3p	TGF beta signaling pathway	48	86	9123	19747	0.046294186	1
hsa-miR-221-5p	Amyotrophic lateral sclerosis ALS	45	55	13873	19747	0.037343098	1	hsa-miR-433-3p	One carbon pool by folate	12	17	9123	19747	0.037563138	1
hsa-miR-221-5p	Cell adhesion molecules CAMs	106	133	13873	19747	0.009075559	1	hsa-miR-433-3p	Ascorbate and aldarate metabolism	17	26	9123	19747	0.038533916	1
hsa-miR-221-5p	Glycerophospholipid metabolism	58	70	13873	19747	0.011686454	1	hsa-miR-433-3p	al cell signaling in Helicobacter pylori i	41	71	9123	19747	0.033043034	1
hsa-miR-221-5p	Arrhythmic right ventricular cardiomyopathy ARVC	61	74	13873	19747	0.012168461	1	hsa-miR-433-3p	Prostate cancer	52	89	9123	19747	0.013551164	1
hsa-miR-223-3p	Heparan sulfate biosynthesis	25	26	15956	19747	0.028044432	1	hsa-miR-433-3p	Long term depression	44	73	9123	19747	0.010798005	1
hsa-miR-223-3p	Endometrial cancer	48	52	15956	19747	0.019025427	1	hsa-miR-433-3p	Acute myeloid leukemia	36	58	9123	19747	0.0108465	1
hsa-miR-223-3p	Chondroitin sulfate biosynthesis	22	22	15956	19747	0.009164226	1	hsa-miR-433-3p	Porphyrin and chlorophyll metabolism	25	40	9123	19747	0.040752712	1
hsa-miR-223-3p	Cell cycle	110	124	15956	19747	0.012809904	1	hsa-miR-433-3p	Adipocytokine signaling pathway	42	71	9123	19747	0.013960653	1
hsa-miR-223-3p	Toll like receptor signaling pathway	92	105	15956	19747	0.043808098	1	hsa-miR-433-3p	Regulation of actin cytoskeleton	112	212	9123	19747	0.03038012	1
hsa-miR-223-3p	Tyrosine metabolism	42	46	15956	19747	0.043601567	1	hsa-miR-532-3p	Chemokine signaling pathway	109	189	9658	19747	0.009365846	1
hsa-miR-223-3p	Long term potentiation	63	71	15956	19747	0.054357792	1	hsa-miR-532-3p	B cell receptor signaling pathway	45	75	9658	19747	0.034984363	1
hsa-miR-223-3p	Peroxisome	71	79	15956	19747	0.022236962	1	hsa-miR-532-3p	Neuroactive ligand receptor interacto	145	259	9658	19747	0.012820999	1
hsa-miR-223-3p	SNARE interactions in vesicular transport	36	39	15956	19747	0.042679845	1	hsa-miR-532-3p	Lysosome	69	121	9658	19747	0.044452967	1
hsa-miR-223-3p	Leukocyte transendothelial migration	102	116	15956	19747	0.028223095	1	hsa-miR-532-3p	TGF beta signaling pathway	52	86	9658	19747	0.020463778	1
hsa-miR-223-3p	MAPK signaling pathway	235	272	15956	19747	0.009185937	1	hsa-miR-532-3p	Long term depression	46	73	9658	19747	0.010564239	1
hsa-miR-223-3p	Phosphatidylinositol signaling system	68	76	15956	19747	0.031379929	1	hsa-miR-532-3p	Gap junction	54	90	9658	19747	0.022356892	1
hsa-miR-223-3p	Renal cell carcinoma	64	71	15956	19747	0.025593677	1	hsa-miR-532-3p	Cell adhesion molecules CAMs	75	133	9658	19747	0.049913655	1
hsa-miR-223-3p	Insulin signaling pathway	123	139	15956	19747	0.010535488	1	hsa-miR-532-3p	Sphingolipid metabolism	25	39	9658	19747	0.040502385	1
hsa-miR-223-3p	Acute myeloid leukemia	52	58	15956	19747	0.053664766	1	hsa-miR-532-3p	Type II diabetes mellitus	32	49	9658	19747	0.0151662	1
hsa-miR-223-3p	Lysosome	105	121	15956	19747	0.054967169	1	hsa-miR-532-3p	Ubiquitin mediated proteolysis	80	134	9658	19747	0.007646362	1
hsa-miR-223-3p	Selenoamino acid metabolism	26	27	15956	19747	0.023404731	1	hsa-miR-532-3p	Notch signaling pathway	30	47	9658	19747	0.028142252	1
hsa-miR-223-3p	Ubiquitin mediated proteolysis	118	134	15956	19747	0.017147117	1	hsa-miR-532-3p	Fc gamma R mediated phagocytosis	57	97	9658	19747	0.03240976	1
hsa-miR-223-3p	Pancreatic cancer	68	75	15956	19747	0.0156987	1	hsa-miR-532-3p	RNA polymerase	19	29	9658	19747	0.0537279	1
hsa-miR-223-3p	O Glycan biosynthesis	28	30	15956	19747	0.05444894	1	hsa-miR-532-3p	al cell signaling in Helicobacter pylori i	43	71	9658	19747	0.031989994	1
hsa-miR-223-3p	TGF beta signaling pathway	77	86	15956	19747	0.021602233	1	hsa-miR-532-3p	p53 signaling pathway	41	68	9658	19747	0.038986689	1
hsa-miR-223-3p	Non small cell lung cancer	50	54	15956	19747	0.014280331	1	hsa-miR-532-3p	Leukocyte transendothelial migration	67	116	9658	19747	0.034325886	1
hsa-miR-223-3p	Regulation of actin cytoskeleton	184	212	15956	19747	0.013422587	1	hsa-miR-532-3p	Butanoate metabolism	23	35	9658	19747	0.033719673	1
hsa-miR-223-3p	B cell receptor signaling pathway	67	75	15956	19747	0.035113461	1	hsa-miR-532-3p	GnRH signaling pathway	63	105	9658	19747	0.014422201	1
hsa-miR-223-3p	Cytokine cytokine receptor interaction	227	266	15956	19747	0.03188424	1	hsa-miR-532-3p	Lysine degradation	30	45	9658	19747	0.012255533	1
hsa-miR-223-3p	Apoptosis	78	87	15956	19747	0.019289207	1	hsa-miR-532-3p	NARE interactions in vesicular transp	25	39	9658	19747	0.040502385	1
hsa-miR-223-3p	Glycosphingolipid biosynthesis ganglio series	15	15	15956	19747	0.040812628	1	hsa-miR-608	osterone regulated sodium reabsorpti	36	42	14514	19747	0.046472305	1
hsa-miR-223-3p	Aldosterone regulated sodium reabsorption	39	42	15956	19747	0.0275039	1	hsa-miR-608	Primary immunodeficiency	31	35	14514	19747	0.026697908	1
hsa-miR-223-3p	Prostate cancer	80	89	15956	19747	0.015330748	1	hsa-miR-608	B cell receptor signaling pathway	64	75	14514	19747	0.010766701	1
hsa-miR-223-5p	Hematopoietic cell lineage	80	87	16441	19747	0.015107199	1	hsa-miR-608	Drug metabolism other enzymes	43	51	14514	19747	0.050224332	1
hsa-miR-223-5p	Melanoma	65	71	16441	19747										

hsa-miR-223-5p	Leukocyte transendothelial migration	104	116	16441	19747	0.036439021	1	hsa-miR-608	Vibrio cholerae infection	48	55	14514	19747	0.011096385	1
hsa-miR-223-5p	Hedgehog signaling pathway	52	56	16441	19747	0.031330241	1	hsa-miR-608	Cysteine and methionine metabolism	31	35	14514	19747	0.026697908	1
hsa-miR-223-5p	One carbon pool by folate	17	17	16441	19747	0.04432604	1	hsa-miR-608	p53 signaling pathway	57	68	14514	19747	0.031767994	1
hsa-miR-223-5p	Phosphatidylinositol signaling system	70	76	16441	19747	0.020727388	1	hsa-miR-608	VEGF signaling pathway	66	78	14514	19747	0.014303025	1
hsa-miR-223-5p	Neurotrophin signaling pathway	116	129	16441	19747	0.022624309	1	hsa-miR-608	Ubiquitin mediated proteolysis	110	134	14514	19747	0.012853388	1
hsa-miR-223-5p	Glyoxylate and dicarboxylate metabolism	16	16	16441	19747	0.053247921	1	hsa-miR-608	Chemokine signaling pathway	150	189	14514	19747	0.037263651	1
hsa-miR-223-5p	Glycosphingolipid biosynthesis lacto and neolacto series	25	26	16441	19747	0.053037114	1	hsa-miR-608	Taurine and hypotaurine metabolism	10	10	14514	19747	0.045973012	1
hsa-miR-223-5p	mTOR signaling pathway	50	53	16441	19747	0.0115531157	1	hsa-miR-608	Gap junction	74	90	14514	19747	0.035347079	1
hsa-miR-223-5p	RNA polymerase	28	29	16441	19747	0.033552903	1	hsa-miR-608	Ascorbate and aldarate metabolism	24	26	14514	19747	0.017509516	1
hsa-miR-223-5p	Propanoate metabolism	32	33	16441	19747	0.018002897	1	hsa-miR-608	ngolipid biosynthesis lacto and neole	24	26	14514	19747	0.017509516	1
hsa-miR-223-5p	Thyroid cancer	28	29	16441	19747	0.033552903	1	hsa-miR-608	Purine metabolism	128	158	14514	19747	0.017360491	1
hsa-miR-223-5p	Lysine degradation	43	45	16441	19747	0.013074692	1	hsa-miR-608	Amyotrophic lateral sclerosis ALS	46	55	14514	19747	0.055274365	1
hsa-miR-223-5p	Fc epsilon RI signaling pathway	74	82	16441	19747	0.053877975	1	hsa-miR-608	TGF beta signaling pathway	70	86	14514	19747	0.057887821	1
hsa-miR-223-5p	Natural killer cell mediated cytotoxicity	122	137	16441	19747	0.03866777	1	hsa-miR-608	Pyrimidine metabolism	80	98	14514	19747	0.039550156	1
hsa-miR-223-5p	Dorso ventral axis formation	24	24	16441	19747	0.012275207	1	hsa-miR-608	Jak STAT signaling pathway	124	156	14514	19747	0.05092301	1
hsa-miR-223-5p	Long term potentiation	65	71	16441	19747	0.035421015	1	hsa-miR-608	Dorso ventral axis formation	22	24	14514	19747	0.028061817	1
hsa-miR-223-5p	Citrate cycle TCA cycle	29	30	16441	19747	0.028751037	1	hsa-miR-608	Porphyria and chorophyll metabolism	35	41	14514	19747	0.05508241	1
hsa-miR-223-5p	Melanogenesis	93	102	16441	19747	0.016522013	1	hsa-miR-608	Pancreatic cancer	64	75	14514	19747	0.010766701	1
hsa-miR-223-5p	Adipocytokine signaling pathway	65	70	16441	19747	0.016103208	1	hsa-miR-608	Retinol metabolism	55	64	14514	19747	0.013219864	1
hsa-miR-223-5p	Chemokine signaling pathway	169	189	16441	19747	0.011325522	1	hsa-miR-608	Prion diseases	31	35	14514	19747	0.026697908	1
hsa-miR-223-5p	Heparan sulfate biosynthesis	25	26	16441	19747	0.053037114	1	hsa-miR-608	Leukocyte transendothelial migration	96	116	14514	19747	0.012736049	1
hsa-miR-223-5p	Oocyte meiosis	102	112	16441	19747	0.013312228	1	hsa-miR-608	Tight junction	108	132	14514	19747	0.016376894	1
hsa-miR-223-5p	Progesterone mediated oocyte maturation	80	88	16441	19747	0.053033778	1	hsa-miR-608	Glycerophospholipid metabolism	58	70	14514	19747	0.045882311	1
hsa-miR-223-5p	Notch signaling pathway	44	47	16441	19747	0.033701002	1	hsa-miR-608	Dilated cardiomyopathy	79	94	14514	19747	0.010885702	1
hsa-miR-223-5p	ABC transporters	42	44	16441	19747	0.0150878	1	hsa-miR-608	Regulation of actin cytoskeleton	170	212	14514	19747	0.014241653	1
hsa-miR-223-5p	Inositol phosphate metabolism	50	54	16441	19747	0.039601971	1	hsa-miR-608	Acute myeloid leukemia	50	58	14514	19747	0.015885575	1
hsa-miR-223-5p	Bladder cancer	40	43	16441	19747	0.055301624	1	hsa-miR-637	Bladder cancer	35	43	13290	19747	0.030912143	1
hsa-miR-223-5p	Toll like receptor signaling pathway	94	105	16441	19747	0.04963318	1	hsa-miR-637	Renal cell carcinoma	56	71	13290	19747	0.022295909	1
hsa-miR-24-3p	Inositol phosphate metabolism	49	54	15270	19747	0.00922213	1	hsa-miR-637	Tight junction	99	132	13290	19747	0.033861778	1
hsa-miR-24-3p	Acute myeloid leukemia	51	58	15270	19747	0.031768414	1	hsa-miR-637	Ubiquitin mediated proteolysis	103	134	13290	19747	0.00990334	1
hsa-miR-24-3p	Selenoamino acid metabolism	25	27	15270	19747	0.037678853	1	hsa-miR-637	Ascorbate and aldarate metabolism	22	26	13290	19747	0.041163856	1
hsa-miR-24-3p	Gap junction	78	90	15270	19747	0.018710539	1	hsa-miR-637	Renin angiotensin system	15	17	13290	19747	0.09424942	1
hsa-miR-24-3p	Peroxisome	68	79	15270	19747	0.036985141	1	hsa-miR-637	Taurine and hypotaurine metabolism	10	10	13290	19747	0.010764397	1
hsa-miR-24-3p	Long term potentiation	63	71	15270	19747	0.011179316	1	hsa-miR-637	Vibrio cholerae infection	43	55	13290	19747	0.053705561	1
hsa-miR-24-3p	Melanoma	63	71	15270	19747	0.011179316	1	hsa-miR-637	Chemokine signaling pathway	141	189	13290	19747	0.017585923	1
hsa-miR-24-3p	ABC transporters	39	44	15270	19747	0.046054571	1	hsa-miR-637	Fructose and mannose metabolism	29	35	13290	19747	0.032384898	1
hsa-miR-24-3p	Epithelial cell signaling in Helicobacter pylori infection	61	71	15270	19747	0.050639668	1	hsa-miR-637	p53 signaling pathway	53	68	13290	19747	0.037343416	1
hsa-miR-24-3p	Fc epsilon RI signaling pathway	71	82	15270	19747	0.02555271	1	hsa-miR-637	Apoptosis	69	87	13290	19747	0.009383754	1
hsa-miR-24-3p	Lysosome	104	121	15270	19747	0.01211865	1	hsa-miR-637	Prion diseases	29	35	13290	19747	0.032384898	1
hsa-miR-24-3p	Chondroitin sulfate biosynthesis	21	22	15270	19747	0.02597925	1	hsa-miR-637	Regulation of actin cytoskeleton	158	212	13290	19747	0.013269443	1
hsa-miR-24-3p	mTOR signaling pathway	48	53	15270	19747	0.010916076	1	hsa-miR-637	Thyroid cancer	25	29	13290	19747	0.019017991	1
hsa-miR-24-3p	Chemokine signaling pathway	159	189	15270	19747	0.013094588	1	hsa-miR-637	NARE interactions in vesicular transp	32	39	13290	19747	0.031797205	1
hsa-miR-24-3p	Amyotrophic lateral sclerosis ALS	49	55	15270	19747	0.021006381	1	hsa-miR-637	ABC transporters	37	44	13290	19747	0.010139085	1
hsa-miR-24-3p	MAPK signaling pathway	227	272	15270	19747	0.007629887	1	hsa-miR-637	Dilated cardiomyopathy	74	94	13290	19747	0.010106211	1
hsa-miR-24-3p	Dilated cardiomyopathy	81	94	15270	19747	0.02247003	1	hsa-miR-637	Long term depression	58	73	13290	19747	0.015566115	1
hsa-miR-24-3p	SNARE interactions in vesicular transport	35	39	15270	19747	0.040243798	1	hsa-miR-637	beta Alanine metabolism	20	23	13290	19747	0.030400566	1
hsa-miR-24-3p	p53 signaling pathway	59	68	15270	19747	0.037348409	1	hsa-miR-637	Pantothenate and CoA biosynthesis	14	15	13290	19747	0.021780985	1
hsa-miR-24-3p	Notch signaling pathway	43	47	15270	19747	0.010292644	1	hsa-miR-637	Chondroitin sulfate biosynthesis	19	22	13290	19747	0.039899278	1
hsa-miR-24-3p	Type II diabetes mellitus	44	49	15270	19747	0.021082098	1	hsa-miR-676-5p	PPAR signaling pathway	40	70	9088	19747	0.040258149	1
hsa-miR-24-3p	Hypertrophic cardiomyopathy HCM	75	86	15270	19747	0.015281877	1	hsa-miR-676-5p	TGF beta signaling pathway	48	86	9088	19747	0.043162802	1
hsa-miR-24-3p	Hematopoietic cell lineage	76	87	15270	19747	0.013391083	1	hsa-miR-676-5p	Ubiquitin mediated proteolysis	75	134	9088	19747	0.01294782	1
hsa-miR-24-3p	VEGF signaling pathway	69	78	15270	19747	0.009478953	1	hsa-miR-676-5p	Hypertrophic cardiomyopathy HCM	49	86	9088	19747	0.026707536	1
hsa-miR-24-3p	Vascular smooth muscle contraction	98	116	15270	19747	0.037280998	1	hsa-miR-676-5p	NARE interactions in vesicular transp	24	39	9088	19747	0.037193279	1
hsa-miR-24-3p	Glycosphingolipid biosynthesis lacto and neolacto series	24	26	15270	19747	0.045586172	1	hsa-miR-676-5p	Dorso ventral axis formation	17	24	9088	19747	0.01238805	1
hsa-miR-24-3p	Aldosterone regulated sodium reabsorption	38	42	15270	19747	0.02447631	1	hsa-miR-676-5p	p53 signaling pathway	40	68	9088	19747	0.022889758	1
hsa-miR-26a-5p	Prostate cancer	77	89	15050	19747	0.011714352	1	hsa-miR-676-5p	rogenic right ventricular cardiomyopat	43	74	9088	19747	0.024389846	1
hsa-miR-26a-5p	Inositol phosphate metabolism	47	54	15050	19747	0.037432898	1	hsa-miR-676-5p	Gap junction	53	90	9088	19747	0.009492621	1
hsa-miR-26a-5p	Glycosphingolipid biosynthesis lacto and neolacto series	24	26	15050	19747	0.034849709	1	hsa-miR-676-5p	Viral myocarditis	41	72	9088	19747	0.040742133	1
hsa-miR-26a-5p	Hedgehog signaling pathway	50	56	15050	19747	0.011260948	1	hsa-miR-676-5p	Dilated cardiomyopathy	55	94	9088	19747	0.009945753	1
hsa-miR-26a-5p	Calcium signaling pathway	148	178	15050	19747	0.015601075	1	hsa-miR-676-5p	Circadian rhythm mammal	10	13	9088	19747	0.024269381	1
hsa-miR-26a-5p	Lysosome	101	121	15050	19747	0.034287349	1	hsa-miR-676-5p	Tight junction	73	132	9088	19747	0.019906928	1
hsa-miR-26a-5p	Axon guidance	107	129	15050	19747	0.041115977	1	hsa-miR-676-5p	NOD like receptor signaling pathway	38	66	9088	19747	0.039165842	1
hsa-miR-26a-5p	mTOR signaling pathway	46	53	15050	19747	0.043336538	1	hsa-miR-676-5p	Glycerophospholipid metabolism	40	70	9088	19747	0.0408982149	1
hsa-miR-26a-5p	Basal cell carcinoma	49	55	15050	19747	0.013322522	1	hsa-miR-676-5p	Selenoamino acid metabolism	17	27	9088	19747	0.057788373	1
hsa-miR-26a-5p	Leukocyte transendothelial migration	97	116	15050	19747	0.034507581	1	hsa-miR-676-5p	ECM receptor interaction	47	84	9088	19747	0.042907895	1
hsa-miR-26a-5p	VEGF signaling pathway	66	78	15050	19747	0.048569392	1	hsa-miR-676-5p	O Glycan biosynthesis	19	30	9088	19747	0.042693473	1
hsa-miR-26a-5p	Keratan sulfate biosynthesis	15	15	15050	19747	0.016974989	1	hsa-miR-676-5p	Vibrio cholerae infection	32	55	9088	19747	0.047021084	1
hsa-miR-26a-5p	Arrhythmogenic right ventricular cardiomyopathy ARVC	65	74	15050	19747	0.009615107	1	hsa-miR-676-5p	Lysosome	67	121	9088	19747	0.024117092	1
hsa-miR-26a-5p	Regulation of actin cytoskeleton	174	212	15050	19747	0.023957031	1	hsa-miR-937-3p	Endometrial cancer	20	52	4545	19747	0.008870288	1
hsa-miR-26a-5p	Acute myeloid leukemia	51	58	15050	19747	0.020413617	1	hsa-miR-937-3p	Type II diabetes mellitus	18	49	4545	19747	0.020981457	1
hsa-miR-26a-5p	Dorso ventral axis formation	22	24	15050	19747	0.05208171	1	hsa-miR-937-3p	Ether lipid metabolism	14	36	4545	19747	0.023792025	1
hsa-miR-26a-5p	Type II diabetes mellitus	43	49	15050	19747	0.035110372	1	hsa-miR-937-3p	Tight junction	40	132	4545	19747	0.032054933	1
hsa-miR-26a-5p	Melanogenesis	86	102	15050	19747	0.031022414	1	hsa-miR-937-3p	Propanoate metabolism	13	33	4545	19747	0.025847136	

hsa-miR-301b	Maturity onset diabetes of the young	23	25	15093	19747	0.044861043	1
hsa-miR-301b	Citrate cycle TCA cycle	28	30	15093	19747	0.016196391	1
hsa-miR-301b	N Glycan biosynthesis	40	46	15093	19747	0.059200535	1
hsa-miR-301b	TGF beta signaling pathway	75	86	15093	19747	0.009401627	1
hsa-miR-301b	Amyotrophic lateral sclerosis ALS	48	55	15093	19747	0.034958204	1
hsa-miR-301b	VEGF signaling pathway	66	78	15093	19747	0.053123293	1
hsa-miR-301b	Cytokine cytokine receptor interaction	218	266	15093	19747	0.017401092	1
hsa-miR-301b	Propanoate metabolism	30	33	15093	19747	0.031024722	1
hsa-miR-301b	ECM receptor interaction	72	84	15093	19747	0.025456158	1
hsa-miR-652-3p	Arrhythmic right ventricular cardiomyopathy ARVC	65	74	15230	19747	0.015146507	1
hsa-miR-652-3p	GnRH signaling pathway	89	105	15230	19747	0.035610036	1
hsa-miR-652-3p	Long term depression	63	73	15230	19747	0.036403272	1
hsa-miR-652-3p	Leukocyte transendothelial migration	98	116	15230	19747	0.033372521	1
hsa-miR-652-3p	TGF beta signaling pathway	75	86	15230	19747	0.013720977	1
hsa-miR-652-3p	Bladder cancer	38	43	15230	19747	0.050323313	1
hsa-miR-652-3p	Non homologous end joining	13	13	15230	19747	0.03412519	1
hsa-miR-652-3p	Progesterone mediated oocyte maturation	75	88	15230	19747	0.041074746	1
hsa-miR-652-3p	Metabolic pathways	865	1091	15230	19747	0.042520477	1
hsa-miR-652-3p	Oocyte meiosis	96	112	15230	19747	0.016229304	1
hsa-miR-652-3p	Glycosphingolipid biosynthesis lacto and neolacto series	24	26	15230	19747	0.043440191	1
hsa-miR-652-3p	T cell receptor signaling pathway	93	110	15230	19747	0.036360079	1
hsa-miR-652-3p	Keratan sulfate biosynthesis	15	15	15230	19747	0.02029067	1
hsa-miR-652-3p	Pentose phosphate pathway	25	27	15230	19747	0.03581482	1
hsa-miR-652-3p	Citrate cycle TCA cycle	28	30	15230	19747	0.01982403	1
hsa-miR-652-3p	Vascular smooth muscle contraction	97	116	15230	19747	0.055541112	1
hsa-miR-652-3p	Chondroitin sulfate biosynthesis	21	22	15230	19747	0.024767639	1
hsa-miR-652-3p	Adipocytokine signaling pathway	60	70	15230	19747	0.052757012	1
hsa-miR-652-3p	mTOR signaling pathway	46	53	15230	19747	0.058963292	1
hsa-miR-652-3p	Vibrio cholerae infection	49	55	15230	19747	0.019367236	1
hsa-miR-652-3p	Peroxisome	68	79	15230	19747	0.033783955	1
hsa-miR-652-3p	B cell receptor signaling pathway	66	75	15230	19747	0.013140888	1
hsa-miR-652-3p	Chemokine signaling pathway	159	189	15230	19747	0.011079642	1
hsa-miR-652-3p	Gap junction	78	90	15230	19747	0.016803666	1
hsa-miR-652-3p	Long term potentiation	63	71	15230	19747	0.01010585	1
hsa-miR-652-3p	Lysine degradation	40	45	15230	19747	0.037011841	1
hsa-miR-652-5p	Fc gamma R mediated phagocytosis	53	97	8443	19747	0.012021036	1
hsa-miR-652-5p	O Glycan biosynthesis	18	30	8443	19747	0.042911359	1
hsa-miR-652-5p	Fc epsilon R1 signaling pathway	45	82	8443	19747	0.017837205	1
hsa-miR-652-5p	Vascular smooth muscle contraction	61	116	8443	19747	0.020540828	1
hsa-miR-652-5p	Glycosphingolipid biosynthesis ganglio series	10	15	8443	19747	0.054207522	1
hsa-miR-652-5p	Bladder cancer	26	43	8443	19747	0.014497462	1
hsa-miR-652-5p	Regulation of actin cytoskeleton	105	212	8443	19747	0.026971819	1
hsa-miR-652-5p	Methane metabolism	5	6	8443	19747	0.055157024	1
hsa-miR-652-5p	Cell adhesion molecules CAMs	69	133	8443	19747	0.020827294	1
hsa-miR-652-5p	Heparan sulfate biosynthesis	17	26	8443	19747	0.016761006	1
hsa-miR-652-5p	GnRH signaling pathway	54	105	8443	19747	0.044951499	1
hsa-miR-652-5p	Aldosterone regulated sodium reabsorption	26	42	8443	19747	0.009586228	1
hsa-miR-652-5p	Lysine degradation	26	45	8443	19747	0.030133022	1
hsa-miR-652-5p	Glycosphingolipid biosynthesis globo series	10	14	8443	19747	0.029106824	1
hsa-miR-652-5p	Hedgehog signaling pathway	33	56	8443	19747	0.010685937	1
hsa-miR-652-5p	Jak STAT signaling pathway	79	156	8443	19747	0.028075209	1
hsa-miR-652-5p	Melanogenesis	56	102	8443	19747	0.00883629	1
hsa-miR-744-3p	Apoptosis	79	87	16506	19747	0.03989712	1
hsa-miR-744-3p	Epithelial cell signaling in Helicobacter pylori infection	65	71	16506	19747	0.04123062	1
hsa-miR-744-3p	Amyotrophic lateral sclerosis ALS	51	55	16506	19747	0.040242691	1
hsa-miR-744-3p	Lysosome	109	121	16506	19747	0.029394785	1
hsa-miR-744-3p	Long term potentiation	65	71	16506	19747	0.04123062	1
hsa-miR-744-3p	Retinol metabolism	59	64	16506	19747	0.036972453	1
hsa-miR-744-3p	Pancreatic cancer	68	75	16506	19747	0.059506336	1
hsa-miR-744-3p	Basal cell carcinoma	51	55	16506	19747	0.040242691	1
hsa-miR-744-3p	Renal cell carcinoma	65	71	16506	19747	0.04123062	1
hsa-miR-744-3p	Adipocytokine signaling pathway	64	70	16506	19747	0.045592731	1
hsa-miR-744-3p	ABC transporters	41	44	16506	19747	0.054720483	1
hsa-miR-744-3p	Primary immunodeficiency	33	35	16506	19747	0.057874799	1
hsa-miR-744-3p	Melanoma	66	71	16506	19747	0.017013527	1
hsa-miR-744-3p	T cell receptor signaling pathway	100	110	16506	19747	0.020024403	1
hsa-miR-744-3p	ErbB signaling pathway	81	89	16506	19747	0.033077161	1
hsa-miR-744-3p	Fructose and mannose metabolism	33	35	16506	19747	0.057874799	1
hsa-miR-744-3p	Focal adhesion	181	203	16506	19747	0.016086781	1
hsa-miR-744-3p	Chronic myeloid leukemia	69	75	16506	19747	0.027309768	1
hsa-miR-744-3p	Cell adhesion molecules CAMs	121	133	16506	19747	0.010212924	1
hsa-miR-744-3p	Small cell lung cancer	76	84	16506	19747	0.052494225	1
hsa-miR-744-3p	Dorso ventral axis formation	24	24	16506	19747	0.013495353	1

hsa-miR-744-3p	Glycosphingolipid biosynthesis lacto and neolacto series	25	26	16506	19747	0.057610593	1
hsa-miR-744-3p	Notch signaling pathway	45	47	16506	19747	0.011302842	1
hsa-miR-744-3p	Neurotrophin signaling pathway	117	129	16506	19747	0.014683638	1
hsa-miR-744-3p	Ascorbate and aldarate metabolism	25	26	16506	19747	0.057610593	1
hsa-miR-744-3p	Selenoamino acid metabolism	26	27	16506	19747	0.049693993	1
hsa-miR-744-3p	Prostate cancer	82	89	16506	19747	0.014842741	1
hsa-miR-744-5p	Notch signaling pathway	47	47	17959	19747	0.011490456	1
hsa-miR-744-5p	N Glycan biosynthesis	46	46	17959	19747	0.012637385	1
hsa-miR-744-5p	Non small cell lung cancer	53	54	17959	19747	0.03772972	1
hsa-miR-744-5p	ErbB signaling pathway	86	89	17959	19747	0.034201511	1
hsa-miR-744-5p	Apoptosis	84	87	17959	19747	0.038953587	1
hsa-miR-744-5p	Glioma	64	65	17959	19747	0.015521989	1
hsa-miR-744-5p	Chemokine signaling pathway	181	189	17959	19747	0.008916908	1
hsa-miR-744-5p	Fc gamma R mediated phagocytosis	94	97	17959	19747	0.020095975	1
hsa-miR-744-5p	Complement and coagulation cascades	68	69	17959	19747	0.011172108	1
hsa-miR-744-5p	Prostate cancer	87	89	17959	19747	0.010323158	1
hsa-miR-744-5p	Endometrial cancer	51	52	17959	19747	0.044210591	1
hsa-miR-744-5p	Neurotrophin signaling pathway	123	129	17959	19747	0.046473213	1
hsa-miR-744-5p	Inositol phosphate metabolism	53	54	17959	19747	0.03772972	1
hsa-miR-744-5p	Small cell lung cancer	82	84	17959	19747	0.014994182	1
hsa-miR-744-5p	Glycine serine and threonine metabolism	31	31	17959	19747	0.052625045	1
hsa-miR-744-5p	Primary immunodeficiency	35	35	17959	19747	0.035977537	1
hsa-miR-744-5p	Pyrimidine metabolism	94	98	17959	19747	0.050993645	1
hsa-miR-744-5p	p53 signaling pathway	66	68	17959	19747	0.047517034	1
hsa-miR-744-5p	Focal adhesion	193	203	17959	19747	0.019976064	1
hsa-miR-744-5p	Tight junction	127	132	17959	19747	0.016700444	1
hsa-miR-744-5p	Vibrio cholerae infection	54	55	17959	19747	0.034841626	1
hsa-miR-744-5p	Gap junction	87	90	17959	19747	0.032033291	1
hsa-miR-744-5p	Prion diseases	35	35	17959	19747	0.035977537	1
hsa-miR-744-5p	Long term potentiation	70	71	17959	19747	0.009468722	1
hsa-miR-99b-3p	Small cell lung cancer	64	84	12919	19747	0.022370284	1
hsa-miR-99b-3p	Porphyrin and chlorophyll metabolism	32	41	12919	19747	0.058487711	1
hsa-miR-99b-3p	VEGF signaling pathway	60	78	12919	19747	0.019273066	1
hsa-miR-99b-3p	Arrhythmogenic right ventricular cardiomyopathy ARVC	58	74	12919	19747	0.010973752	1
hsa-miR-99b-3p	Fc gamma R mediated phagocytosis	73	97	12919	19747	0.024311836	1
hsa-miR-99b-3p	Chondroitin sulfate biosynthesis	20	22	12919	19747	0.006790341	1
hsa-miR-99b-3p	Focal adhesion	148	203	12919	19747	0.013467868	1
hsa-miR-99b-3p	One carbon pool by folate	15	17	12919	19747	0.03529227	1
hsa-miR-99b-3p	Dorso ventral axis formation	20	24	12919	19747	0.045969759	1
hsa-miR-99b-3p	Phosphatidylinositol signaling system	60	76	12919	19747	0.007351793	1
hsa-miR-99b-3p	Progesterone mediated oocyte maturation	67	88	12919	19747	0.020206522	1
hsa-miR-99b-3p	Long term depression	55	73	12919	19747	0.04553827	1
hsa-miR-99b-3p	Amino sugar and nucleotide sugar metabolism	35	44	12919	19747	0.031157526	1
hsa-miR-99b-3p	Neurotrophin signaling pathway	96	129	12919	19747	0.017866174	1
hsa-miR-99b-3p	Glioma	52	65	12919	19747	0.007594303	1
hsa-miR-99b-3p	Aldosterone regulated sodium reabsorption	34	42	12919	19747	0.021567997	1
hsa-miR-99b-3p	Inositol phosphate metabolism	43	54	12919	19747	0.017016906	1
hsa-miR-99b-3p	Leukocyte transendothelial migration	88	116	12919	19747	0.010023439	1
hsa-miR-99b-3p	Non small cell lung cancer	44	54	12919	19747	0.007430913	1
hsa-miR-99b-5p	T cell receptor signaling pathway	58	110	8827	19747	0.05496708	1
hsa-miR-99b-5p	Dorso ventral axis formation	16	24	8827	19747	0.025061006	1
hsa-miR-99b-5p	Endometrial cancer	30	52	8827	19747	0.040682645	1
hsa-miR-99b-5p	Heparan sulfate biosynthesis	18	26	8827	19747	0.010111232	1
hsa-miR-99b-5p	O Glycan biosynthesis	20	30	8827	19747	0.012646945	1
hsa-miR-99b-5p	Regulation of actin cytoskeleton	111	212	8827	19747	0.014645955	1
hsa-miR-99b-5p	Arrhythmogenic right ventricular cardiomyopathy ARVC	41	74	8827	19747	0.041442178	1
hsa-miR-99b-5p	Keratan sulfate biosynthesis	11	15	8827	19747	0.02405315	1
hsa-miR-99b-5p	Long term depression	41	73	8827	19747	0.032095886	1
hsa-miR-99b-5p	ABC transporters	26	44	8827	19747	0.038697352	1
hsa-miR-99b-5p	Butanoate metabolism	22	35	8827	19747	0.023379825	1
hsa-miR-99b-5p	Type II diabetes mellitus	30	49	8827	19747	0.014614487	1
hsa-miR-99b-5p	Hypertrophic cardiomyopathy HCM	48	86	8827	19747	0.024805604	1
hsa-miR-99b-5p	Basal cell carcinoma	34	55	8827	19747	0.007852884	1
hsa-miR-99b-5p	TGF beta signaling pathway	48	86	8827	19747	0.024805604	1
hsa-miR-99b-5p	Notch signaling pathway	28	47	8827	19747	0.028598366	1
hsa-miR-99b-5p	Adipocytokine signaling pathway	41	70	8827	19747	0.013494076	1
hsa-miR-99b-5p	Lysosome	67	121	8827	19747	0.011612235	1
hsa-miR-99b-5p	p53 signaling pathway	38	68	8827	19747	0.04169912	1
hsa-miR-99b-5p	Cell adhesion molecules CAMs	73	133	8827	19747	0.011406583	1
hsa-miR-99b-5p	Valine leucine and isoleucine degradation	27	45	8827	19747	0.027946592	1
hsa-miR-99b-5p	Pantothenate and CoA biosynthesis	11	15	8827	19747	0.02405315	1
hsa-miR-99b-5p	Aldosterone regulated sodium reabsorption	26	42	8827	19747	0.018530613	1
hsa-miR-99b-5p	Tight junction	69	132	8827	19747	0.048024917	1

hsa-miR-99b-5p	Fc epsilon RI signaling pathway	47	82	8827	19747	0.014443783	1
hsa-miR-99b-5p	GnRH signaling pathway	56	105	8827	19747	0.046311731	1
hsa-miR-99b-5p	Prostate cancer	48	89	8827	19747	0.049971053	1
hsa-miR-99b-5p	Gap junction	50	90	8827	19747	0.024747848	1
hsa-miR-99b-5p	Melanogenesis	56	102	8827	19747	0.024284882	1

Note: KEGG: Kyoto Encyclopedia of Genes and Genomes
PathFg-number of genes predicted as putative targets in a given pathway
PathBg-number of genes in a given pathway
GenomeFG-total number of target genes within genome
GenomeBG-total number of genes within genome
pval-Fisher's exact test p value
BH-Benjamini-Hochberg False Discovery Rate adjusted p value