

Supplementary Table. S1. The functional enrichments of key proteins regulated by plinabulin in glioblastoma cells

GO term	observed gene count	background gene count	fold Enrichment	raw <i>P</i> -value	class
mitotic G2/M transition checkpoint (GO:0044818)	20	6.55	3.05	0.0000883	biological process
negative regulation of G2/M transition of mitotic cell cycle (GO:0010972)	21	8.09	2.6	0.000409	biological process
regulation of miRNA metabolic process (GO:2000628)	26	10.53	2.47	0.000185	biological process
positive regulation of cell migration (GO:0030335)	112	68.59	1.63	0.00000539	biological process
regulation of epithelial cell proliferation (GO:0050678)	77	47.78	1.61	0.000224	biological process
positive regulation of cell motility (GO:2000147)	115	71.8	1.6	0.00000847	biological process
positive regulation of locomotion (GO:0040017)	117	73.86	1.58	0.000011	biological process
mitotic cell cycle (GO:0000278)	125	79.12	1.58	0.00000557	biological process
chromatin organization (GO:0006325)	146	94.02	1.55	0.00000221	biological process
skeletal system development (GO:0001501)	99	64.74	1.53	0.0002	biological process
cell part morphogenesis (GO:0032990)	101	66.54	1.52	0.000189	biological process
neuron projection morphogenesis (GO:0048812)	95	62.68	1.52	0.000342	biological process
mitotic cell cycle process (GO:1903047)	101	67.05	1.51	0.000253	biological process
cell projection morphogenesis (GO:0048858)	96	63.97	1.5	0.000391	biological process
cellular component morphogenesis (GO:0032989)	119	79.38	1.5	0.0000751	biological process
regulation of cell migration (GO:0030334)	179	119.71	1.5	0.0000012	biological process
positive regulation of programmed cell death (GO:0043068)	102	68.46	1.49	0.000369	biological process
protein-DNA complex organization (GO:0071824)	154	104.04	1.48	0.0000126	biological process
chromatin remodeling (GO:0006338)	113	76.55	1.48	0.000236	biological process
regulation of anatomical structure morphogenesis (GO:0022603)	165	111.88	1.47	0.00000633	biological process
regulation of cell cycle process (GO:0010564)	136	93.12	1.46	0.000078	biological process
regulation of MAPK cascade (GO:0043408)	126	86.32	1.46	0.000138	biological process
regulation of cellular response to stress (GO:0080135)	119	82.46	1.44	0.00031	biological process
DNA metabolic process (GO:0006259)	143	99.16	1.44	0.0000808	biological process
DNA damage response (GO:0006974)	141	98.13	1.44	0.0000944	biological process
regulation of cell motility (GO:2000145)	182	127.16	1.43	0.0000108	biological process
cytoskeleton organization (GO:0007010)	229	160.43	1.43	0.00000085	biological process
regulation of locomotion (GO:0040012)	189	132.94	1.42	0.0000106	biological process
regulation of multicellular organismal development (GO:2000026)	254	179.83	1.41	0.000000389	biological process
cell cycle process (GO:0022402)	159	113.16	1.41	0.0000943	biological process
anatomical structure formation involved in morphogenesis (GO:0048646)	173	123.18	1.4	0.000044	biological process

regulation of cell cycle (GO:0051726)	200	143.73	1.39	0.0000176	biological process
animal organ morphogenesis (GO:0009887)	177	127.29	1.39	0.0000572	biological process
tube development (GO:0035295)	160	115.47	1.39	0.000163	biological process
microtubule-based process (GO:0007017)	145	105.07	1.38	0.000413	biological process
circulatory system development (GO:0072359)	163	118.94	1.37	0.00024	biological process
positive regulation of developmental process (GO:0051094)	232	169.29	1.37	0.00000908	biological process
embryo development (GO:0009790)	185	135.38	1.37	0.0000911	biological process
intracellular signal transduction (GO:0035556)	272	199.61	1.36	0.00000187	biological process
positive regulation of transcription by RNA polymerase II (GO:0045944)	221	162.87	1.36	0.0000286	biological process
cellular response to stress (GO:0033554)	278	205.52	1.35	0.00000251	biological process
positive regulation of DNA-templated transcription (GO:0045893)	296	219.26	1.35	0.00000136	biological process
positive regulation of RNA biosynthetic process (GO:1902680)	297	220.16	1.35	0.00000142	biological process
positive regulation of signal transduction (GO:0009967)	268	198.97	1.35	0.00000542	biological process
cell cycle (GO:0007049)	219	163.13	1.34	0.0000595	biological process
anatomical structure morphogenesis (GO:0009653)	386	287.59	1.34	3.96E-08	biological process
regulation of developmental process (GO:0050793)	422	315.47	1.34	1.08E-08	biological process
regulation of programmed cell death (GO:0043067)	260	194.86	1.33	0.0000154	biological process
positive regulation of RNA metabolic process (GO:0051254)	315	237.24	1.33	0.00000216	biological process
regulation of apoptotic process (GO:0042981)	250	188.43	1.33	0.0000328	biological process
positive regulation of cell communication (GO:0010647)	293	221.7	1.32	0.00000742	biological process
positive regulation of nitrogen compound metabolic process (GO:0051173)	528	399.6	1.32	3.16E-10	biological process
positive regulation of signaling (GO:0023056)	292	221.57	1.32	0.00000879	biological process
positive regulation of protein metabolic process (GO:0051247)	241	183.04	1.32	0.0000718	biological process
negative regulation of DNA-templated transcription (GO:0045892)	223	169.94	1.31	0.000159	biological process
negative regulation of RNA biosynthetic process (GO:1902679)	225	171.73	1.31	0.00017	biological process
positive regulation of macromolecule biosynthetic process (GO:0010557)	324	248.29	1.3	0.0000056	biological process
negative regulation of RNA metabolic process (GO:0051253)	242	185.86	1.3	0.000131	biological process

negative regulation of nucleobase-containing compound metabolic process (GO:0045934)	261	200.76	1.3	0.0000744	biological process
positive regulation of multicellular organismal process (GO:0051240)	275	212.07	1.3	0.0000508	biological process
regulation of cell population proliferation (GO:0042127)	278	214.51	1.3	0.0000474	biological process
positive regulation of macromolecule metabolic process (GO:0010604)	582	449.95	1.29	5.82E-10	biological process
regulation of transcription by RNA polymerase II (GO:0006357)	428	331.65	1.29	0.000000318	biological process
regulation of protein modification process (GO:0031399)	239	185.22	1.29	0.000239	biological process
positive regulation of nucleobase-containing compound metabolic process (GO:0045935)	338	262.29	1.29	0.00000922	biological process
positive regulation of cellular biosynthetic process (GO:0031328)	332	258.57	1.28	0.0000151	biological process
positive regulation of biosynthetic process (GO:0009891)	340	266.14	1.28	0.0000166	biological process
negative regulation of macromolecule biosynthetic process (GO:0010558)	255	199.86	1.28	0.000248	biological process
system development (GO:0048731)	581	455.73	1.27	5.07E-09	biological process
animal organ development (GO:0048513)	478	375.07	1.27	0.000000191	biological process
regulation of cell differentiation (GO:0045595)	254	199.61	1.27	0.000286	biological process
negative regulation of biosynthetic process (GO:0009890)	269	211.43	1.27	0.000197	biological process
multicellular organism development (GO:0007275)	647	508.53	1.27	5.6E-10	biological process
positive regulation of metabolic process (GO:0009893)	620	489.9	1.27	3.18E-09	biological process
regulation of RNA biosynthetic process (GO:2001141)	560	443.15	1.26	3.24E-08	biological process
regulation of DNA-templated transcription (GO:0006355)	556	440.19	1.26	4.06E-08	biological process
negative regulation of cellular biosynthetic process (GO:0031327)	259	205.13	1.26	0.00039	biological process
positive regulation of cellular metabolic process (GO:0031325)	481	380.98	1.26	0.000000484	biological process
regulation of intracellular signal transduction (GO:1902531)	279	221.83	1.26	0.000269	biological process
positive regulation of response to stimulus (GO:0048584)	353	282.33	1.25	0.0000546	biological process
regulation of cellular component organization (GO:0051128)	391	313.16	1.25	0.0000226	biological process
regulation of RNA metabolic process (GO:0051252)	598	480.78	1.24	7.23E-08	biological process
regulation of nucleobase-containing compound metabolic process (GO:0019219)	643	517.26	1.24	1.85E-08	biological process

regulation of multicellular organismal process (GO:0051239)	474	382.13	1.24	0.00000377	biological process
protein-containing complex organization (GO:0043933)	314	253.17	1.24	0.000267	biological process
organelle organization (GO:0006996)	482	392.28	1.23	0.00000814	biological process
regulation of signal transduction (GO:0009966)	471	383.93	1.23	0.0000116	biological process
positive regulation of cellular process (GO:0048522)	865	705.44	1.23	1.13E-10	biological process
regulation of primary metabolic process (GO:0080090)	913	745.13	1.23	2.7E-11	biological process
regulation of nitrogen compound metabolic process (GO:0051171)	884	722.13	1.22	8.33E-11	biological process
anatomical structure development (GO:0048856)	815	666.52	1.22	1.1E-09	biological process
negative regulation of cellular metabolic process (GO:0031324)	347	284.13	1.22	0.00032	biological process
negative regulation of cellular process (GO:0048523)	735	602.68	1.22	0.000000019	biological process
negative regulation of nitrogen compound metabolic process (GO:0051172)	371	304.55	1.22	0.000229	biological process
regulation of signaling (GO:0023051)	530	435.7	1.22	0.00000603	biological process
response to stress (GO:0006950)	534	439.16	1.22	0.00000567	biological process
regulation of cell communication (GO:0010646)	531	436.85	1.22	0.00000698	biological process
regulation of macromolecule biosynthetic process (GO:0010556)	614	505.83	1.21	0.000000976	biological process
regulation of macromolecule metabolic process (GO:0060255)	960	791.37	1.21	4.27E-11	biological process
cellular component organization (GO:0016043)	863	711.6	1.21	0.000000001	biological process
negative regulation of macromolecule metabolic process (GO:0010605)	428	353.23	1.21	0.0000923	biological process
response to organic substance (GO:0010033)	403	332.94	1.21	0.000169	biological process
negative regulation of biological process (GO:0048519)	823	681.67	1.21	7.87E-09	biological process
negative regulation of metabolic process (GO:0009892)	461	382.77	1.2	0.0000758	biological process
regulation of metabolic process (GO:0019222)	1035	859.45	1.2	1.6E-11	biological process
regulation of biosynthetic process (GO:0009889)	641	533.57	1.2	0.00000179	biological process
regulation of cellular biosynthetic process (GO:0031326)	624	519.57	1.2	0.00000268	biological process
regulation of cellular metabolic process (GO:0031323)	840	700.94	1.2	0.000000016	biological process
regulation of gene expression (GO:0010468)	747	624.39	1.2	0.000000236	biological process
cellular component organization or biogenesis (GO:0071840)	884	739.09	1.2	7.05E-09	biological process
positive regulation of biological process (GO:0048518)	945	796.12	1.19	5.71E-09	biological process
regulation of response to stimulus (GO:0048583)	602	507.88	1.19	0.0000196	biological process
developmental process (GO:0032502)	866	730.74	1.19	5.93E-08	biological process
multicellular organismal process (GO:0032501)	957	859.57	1.11	0.00017	biological process

regulation of cellular process (GO:0050794)	1538	1411.13	1.09	0.00000311	biological process
regulation of biological process (GO:0050789)	1632	1509.52	1.08	0.0000057	biological process
biological regulation (GO:0065007)	1679	1563.47	1.07	0.0000159	biological process
cellular process (GO:0009987)	2000	1877.01	1.07	0.000000474	biological process
biological_process (GO:0008150)	2370	2275.33	1.04	0.000000206	biological process
Unclassified (UNCLASSIFIED)	275	369.67	0.74	0.000000206	biological process
G protein-coupled receptor signaling pathway (GO:0007186)	94	156.71	0.6	0.000000193	biological process
sensory perception (GO:0007600)	62	126.14	0.49	1.27E-09	biological process
adaptive immune response (GO:0002250)	39	84.9	0.46	0.00000012	biological process
detection of stimulus (GO:0051606)	32	86.83	0.37	1.22E-10	biological process
detection of stimulus involved in sensory perception (GO:0050906)	16	71.29	0.22	4.64E-14	biological process
sensory perception of chemical stimulus (GO:0007606)	12	69.23	0.17	4.7E-16	biological process
detection of chemical stimulus (GO:0009593)	8	66.02	0.12	4.58E-18	biological process
sensory perception of smell (GO:0007608)	7	59.09	0.12	1.85E-16	biological process
detection of chemical stimulus involved in sensory perception (GO:0050907)	4	61.78	0.06	2.04E-20	biological process
detection of chemical stimulus involved in sensory perception of smell (GO:0050911)	2	55.62	0.04	3.53E-20	biological process
condensed chromosome (GO:0000793)	59	35.58	1.66	0.000693	biological process
microtubule (GO:0005874)	94	60.5	1.55	0.000162	biological process
nuclear speck (GO:0016607)	82	53.18	1.54	0.000568	biological process
nuclear body (GO:0016604)	161	106.87	1.51	0.0000031	biological process
transcription regulator complex (GO:0005667)	96	65.12	1.47	0.000699	biological process
chromosome (GO:0005694)	333	243.15	1.37	7.38E-08	biological process
chromatin (GO:0000785)	223	168.14	1.33	0.0000891	biological process
protein-DNA complex (GO:0032993)	232	176.23	1.32	0.0000902	biological process
nucleoplasm (GO:0005654)	668	530.36	1.26	1.19E-09	biological process
nuclear lumen (GO:0031981)	726	576.99	1.26	1.61E-10	biological process
cell junction (GO:0030054)	351	286.44	1.23	0.00023	biological process
cytoskeleton (GO:0005856)	377	308.92	1.22	0.000172	biological process
organelle lumen (GO:0043233)	878	721.49	1.22	3.18E-10	biological process
intracellular organelle lumen (GO:0070013)	878	721.49	1.22	3.18E-10	biological process
membrane-enclosed lumen (GO:0031974)	878	721.49	1.22	3.18E-10	biological process
non-membrane-bounded organelle (GO:0043228)	822	676.92	1.21	2.74E-09	biological process
intracellular non-membrane-bounded organelle (GO:0043232)	821	676.79	1.21	3.61E-09	biological process
nucleus (GO:0005634)	1165	982.76	1.19	9.21E-12	biological process

cytosol (GO:0005829)	799	709.8	1.13	0.000293	biological process
intracellular membrane-bounded organelle (GO:0043231)	1735	1556.79	1.11	2.39E-11	biological process
intracellular anatomical structure (GO:0005622)	2112	1911.18	1.11	1.93E-17	biological process
intracellular organelle (GO:0043229)	1876	1699.75	1.1	8.49E-12	biological process
organelle (GO:0043226)	1967	1802.64	1.09	4.5E-11	biological process
membrane-bounded organelle (GO:0043227)	1846	1694.61	1.09	5.2E-09	biological process
cytoplasm (GO:0005737)	1682	1556.53	1.08	0.00000271	biological process
cellular anatomical entity (GO:0110165)	2464	2387.59	1.03	0.000000829	biological process
cellular_component (GO:0005575)	2482	2407.11	1.03	0.000000469	biological process
Unclassified (UNCLASSIFIED)	163	237.89	0.69	0.000000469	biological process
T cell receptor complex (GO:0042101)	4	19.14	0.21	0.00016	biological process
immunoglobulin complex (GO:0019814)	0	21.71	< 0.01	2.41E-09	biological process
actin binding (GO:0003779)	90	57.42	1.57	0.000191	biological process
DNA-binding transcription activator activity (GO:0001216)	95	61.66	1.54	0.000186	biological process
DNA-binding transcription activator activity, RNA polymerase II-specific (GO:0001228)	94	61.14	1.54	0.000226	biological process
transcription factor binding (GO:0008134)	117	78.35	1.49	0.000109	biological process
chromatin binding (GO:0003682)	113	76.94	1.47	0.000246	biological process
cytoskeletal protein binding (GO:0008092)	187	128.19	1.46	0.00000311	biological process
RNA polymerase II cis-regulatory region sequence-specific DNA binding (GO:0000978)	204	152.34	1.34	0.000123	biological process
DNA binding (GO:0003677)	430	322.28	1.33	8.52E-09	biological process
cis-regulatory region sequence-specific DNA binding (GO:0000987)	207	155.17	1.33	0.000119	biological process
transcription regulator activity (GO:0140110)	326	245.85	1.33	0.00000156	biological process
sequence-specific DNA binding (GO:0043565)	282	215.15	1.31	0.0000185	biological process
DNA-binding transcription factor activity (GO:0003700)	238	181.88	1.31	0.000112	biological process
sequence-specific double-stranded DNA binding (GO:1990837)	262	200.51	1.31	0.0000459	biological process
double-stranded DNA binding (GO:0003690)	278	212.84	1.31	0.0000276	biological process
DNA-binding transcription factor activity, RNA polymerase II-specific (GO:0000981)	229	175.46	1.31	0.000168	biological process
transcription cis-regulatory region binding (GO:0000976)	247	192.29	1.28	0.000224	biological process
ATP binding (GO:0005524)	246	191.52	1.28	0.00022	biological process
transcription regulatory region nucleic acid binding (GO:0001067)	247	192.54	1.28	0.000228	biological process
protein-containing complex binding (GO:0044877)	293	228.64	1.28	0.0000567	biological process

purine ribonucleoside triphosphate binding (GO:0035639)	296	236.09	1.25	0.000226	biological process
nucleic acid binding (GO:0003676)	633	514.43	1.23	9.94E-08	biological process
metal ion binding (GO:0046872)	680	554	1.23	3.54E-08	biological process
cation binding (GO:0043169)	691	565.3	1.22	5.07E-08	biological process
heterocyclic compound binding (GO:1901363)	911	767.48	1.19	1.34E-08	biological process
ion binding (GO:0043167)	927	784.17	1.18	1.86E-08	biological process
organic cyclic compound binding (GO:0097159)	918	776.6	1.18	0.000000025	biological process
protein binding (GO:0005515)	2067	1847.47	1.12	1.58E-19	biological process
binding (GO:0005488)	2309	2124.91	1.09	3.48E-19	biological process
molecular_function (GO:0003674)	2448	2336.34	1.05	1.29E-11	biological process
molecular transducer activity (GO:0060089)	139	198.97	0.7	0.0000139	biological process
signaling receptor activity (GO:0038023)	139	198.97	0.7	0.0000139	biological process
transmembrane signaling receptor activity (GO:0004888)	111	170.32	0.65	0.00000279	biological process
Unclassified (UNCLASSIFIED)	197	308.66	0.64	1.29E-11	biological process
G protein-coupled receptor activity (GO:0004930)	44	112.91	0.39	1.23E-12	biological process
antigen binding (GO:0003823)	6	24.66	0.24	0.0000389	biological process
olfactory receptor activity (GO:0004984)	2	55.36	0.04	3.23E-20	biological process
odorant binding (GO:0005549)	0	15.93	< 0.01	0.00000053	biological process
condensed chromosome (GO:0000793)	59	35.58	1.66	0.000693	cellular component
microtubule (GO:0005874)	94	60.5	1.55	0.000162	cellular component
nuclear speck (GO:0016607)	82	53.18	1.54	0.000568	cellular component
nuclear body (GO:0016604)	161	106.87	1.51	0.0000031	cellular component
transcription regulator complex (GO:0005667)	96	65.12	1.47	0.000699	cellular component
chromosome (GO:0005694)	333	243.15	1.37	7.38E-08	cellular component
chromatin (GO:0000785)	223	168.14	1.33	0.0000891	cellular component
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cytoskeleton (GO:0005856)	377	308.92	1.22	0.000172	cellular component
organelle lumen (GO:0043233)	878	721.49	1.22	3.18E-10	cellular component
intracellular organelle lumen (GO:0070013)	878	721.49	1.22	3.18E-10	cellular component
membrane-enclosed lumen (GO:0031974)	878	721.49	1.22	3.18E-10	cellular component
non-membrane-bounded organelle (GO:0043228)	822	676.92	1.21	2.74E-09	cellular component
intracellular non-membrane-bounded organelle (GO:0043232)	821	676.79	1.21	3.61E-09	cellular component
nucleus (GO:0005634)	1165	982.76	1.19	9.21E-12	cellular component
cytosol (GO:0005829)	799	709.8	1.13	0.000293	cellular component

intracellular membrane-bounded organelle (GO:0043231)	1735	1556.79	1.11	2.39E-11	cellular component
intracellular anatomical structure (GO:0005622)	2112	1911.18	1.11	1.93E-17	cellular component
intracellular organelle (GO:0043229)	1876	1699.75	1.1	8.49E-12	cellular component
organelle (GO:0043226)	1967	1802.64	1.09	4.5E-11	cellular component
membrane-bounded organelle (GO:0043227)	1846	1694.61	1.09	5.2E-09	cellular component
cytoplasm (GO:0005737)	1682	1556.53	1.08	0.00000271	cellular component
cellular anatomical entity (GO:0110165)	2464	2387.59	1.03	0.000000829	cellular component
cellular_component (GO:0005575)	2482	2407.11	1.03	0.000000469	cellular component
Unclassified (UNCLASSIFIED)	163	237.89	0.69	0.000000469	cellular component
T cell receptor complex (GO:0042101)	4	19.14	0.21	0.00016	cellular component
immunoglobulin complex (GO:0019814)	0	21.71	< 0.01	2.41E-09	cellular component
actin binding (GO:0003779)	90	57.42	1.57	0.000191	molecular function
DNA-binding transcription activator activity (GO:0001216)	95	61.66	1.54	0.000186	molecular function
DNA-binding transcription activator activity, RNA polymerase II-specific (GO:0001228)	94	61.14	1.54	0.000226	molecular function
transcription factor binding (GO:0008134)	117	78.35	1.49	0.000109	molecular function
chromatin binding (GO:0003682)	113	76.94	1.47	0.000246	molecular function
cytoskeletal protein binding (GO:0008092)	187	128.19	1.46	0.00000311	molecular function
RNA polymerase II cis-regulatory region sequence- specific DNA binding (GO:0000978)	204	152.34	1.34	0.000123	molecular function
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transcription regulator activity (GO:0140110)	326	245.85	1.33	0.00000156	molecular function
sequence-specific DNA binding (GO:0043565)	282	215.15	1.31	0.0000185	molecular function
DNA-binding transcription factor activity (GO:0003700)	238	181.88	1.31	0.000112	molecular function
sequence-specific double-stranded DNA binding (GO:1990837)	262	200.51	1.31	0.0000459	molecular function
double-stranded DNA binding (GO:0003690)	278	212.84	1.31	0.0000276	molecular function
DNA-binding transcription factor activity, RNA polymerase II-specific (GO:0000981)	229	175.46	1.31	0.000168	molecular function
transcription cis-regulatory region binding (GO:0000976)	247	192.29	1.28	0.000224	molecular function
ATP binding (GO:0005524)	246	191.52	1.28	0.00022	molecular function
transcription regulatory region nucleic acid binding (GO:0001067)	247	192.54	1.28	0.000228	molecular function
protein-containing complex binding (GO:0044877)	293	228.64	1.28	0.0000567	molecular function

purine ribonucleoside triphosphate binding (GO:0035639)	296	236.09	1.25	0.000226	molecular function
nucleic acid binding (GO:0003676)	633	514.43	1.23	9.94E-08	molecular function
metal ion binding (GO:0046872)	680	554	1.23	3.54E-08	molecular function
cation binding (GO:0043169)	691	565.3	1.22	5.07E-08	molecular function
heterocyclic compound binding (GO:1901363)	911	767.48	1.19	1.34E-08	molecular function
ion binding (GO:0043167)	927	784.17	1.18	1.86E-08	molecular function
organic cyclic compound binding (GO:0097159)	918	776.6	1.18	0.000000025	molecular function
protein binding (GO:0005515)	2067	1847.47	1.12	1.58E-19	molecular function
binding (GO:0005488)	2309	2124.91	1.09	3.48E-19	molecular function
molecular_function (GO:0003674)	2448	2336.34	1.05	1.29E-11	molecular function
molecular transducer activity (GO:0060089)	139	198.97	0.7	0.0000139	molecular function
signaling receptor activity (GO:0038023)	139	198.97	0.7	0.0000139	molecular function
transmembrane signaling receptor activity (GO:0004888)	111	170.32	0.65	0.00000279	molecular function
Unclassified (UNCLASSIFIED)	197	308.66	0.64	1.29E-11	molecular function
G protein-coupled receptor activity (GO:0004930)	44	112.91	0.39	1.23E-12	molecular function
antigen binding (GO:0003823)	6	24.66	0.24	0.0000389	molecular function
olfactory receptor activity (GO:0004984)	2	55.36	0.04	3.23E-20	molecular function
odorant binding (GO:0005549)	0	15.93	< 0.01	0.00000053	molecular function

Supplementary Table. S2. The molecular target of plinabulin predicted by SwissTargetPrediction

Common name	Uniprot ID	ChEMBL ID	Target Class	Probability*
CCKAR	P32238	CHEMBL1901	Family A G protein-coupled receptor	0.097239989
CCKBR	P32239	CHEMBL298	Family A G protein-coupled receptor	0.097239989
PIK3CG	P48736	CHEMBL3267	Enzyme	0.097239989
KCNA5	P22460	CHEMBL4306	Voltage-gated ion channel	0.097239989
SRC	P12931	CHEMBL267	Kinase	0.097239989
PLAT	P00750	CHEMBL1873	Protease	0.097239989
F2	P00734	CHEMBL204	Protease	0.097239989
PRSS1	P07477	CHEMBL209	Protease	0.097239989
F10	P00742	CHEMBL244	Protease	0.097239989
F11	P03951	CHEMBL2820	Protease	0.097239989
PRSS3	P35030	CHEMBL4551	Protease	0.097239989
EDNRB	P24530	CHEMBL1785	Family A G protein-coupled receptor	0.097239989
PSEN2 PSENEN NCSTN	P49810 Q9NZ42 Q92542 Q96B13	CHEMBL2094135	Protease	0.097239989
APH1A PSEN1 APH1B	P49768 Q8WW43			
EDNRA	P25101	CHEMBL252	Family A G protein-coupled receptor	0.097239989
PDE10A	Q9Y233	CHEMBL4409	Phosphodiesterase	0.097239989
ADORA1	P30542	CHEMBL226	Family A G protein-coupled receptor	0.097239989
ADORA2A	P29274	CHEMBL251	Family A G protein-coupled receptor	0.097239989
ADORA2B	P29275	CHEMBL255	Family A G protein-coupled receptor	0.097239989
ADORA3	P0DMS8	CHEMBL256	Family A G protein-coupled receptor	0.097239989
KDR	P35968	CHEMBL279	Kinase	0.097239989
PTGER3	P43115	CHEMBL3710	Family A G protein-coupled receptor	0.097239989
ADAM17	P78536	CHEMBL3706	Protease	0.097239989
CBR1	P16152	CHEMBL5586	Enzyme	0.097239989
CFD	P00746	CHEMBL2176771	Protease	0.097239989
GHSR	Q92847	CHEMBL4616	Family A G protein-coupled receptor	0.097239989
PIK3CD	O00329	CHEMBL3130	Enzyme	0.097239989
PIK3CA	P42336	CHEMBL4005	Enzyme	0.097239989
BRAF	P15056	CHEMBL5145	Kinase	0.097239989
PTGER1	P34995	CHEMBL1811	Family A G protein-coupled receptor	0.097239989
PTGER4	P35408	CHEMBL1836	Family A G protein-coupled receptor	0.097239989
PTPN1	P18031	CHEMBL335	Phosphatase	0.097239989
CTSL	P07711	CHEMBL3837	Protease	0.097239989
HTR6	P50406	CHEMBL3371	Family A G protein-coupled receptor	0.097239989
CTNNB1	P35222	CHEMBL5866	Unclassified protein	0.097239989
LGMN	Q99538	CHEMBL4244	Protease	0.097239989

CCNE1 CDK2	P24864 P24941	CHEMBL1907605	Kinase	0.097239989
CDK7 CCNH	P50613 P51946	CHEMBL2111288	Other cytosolic protein	0.097239989
CTSG	P08311	CHEMBL4071	Protease	0.097239989
CDK5R1 CDK5	Q15078 Q00535	CHEMBL1907600	Kinase	0.097239989
CDK2 CCNA1 CCNA2	P24941 P78396 P20248	CHEMBL2094128	Other cytosolic protein	0.097239989
DYRK1A	Q13627	CHEMBL2292	Kinase	0.097239989
ESR2	Q92731	CHEMBL242	Nuclear receptor	0.097239989
JAK2	O60674	CHEMBL2971	Kinase	0.097239989
CCND1 CDK4	P24385 P11802	CHEMBL1907601	Kinase	0.097239989
MAPK10	P53779	CHEMBL2637	Kinase	0.097239989
MAPK1	P28482	CHEMBL4040	Kinase	0.097239989
JAK3	P52333	CHEMBL2148	Kinase	0
ABCB1	P08183	CHEMBL4302	Primary active transporter	0
IGF1R	P08069	CHEMBL1957	Kinase	0
ITK	Q08881	CHEMBL2959	Kinase	0
BDKRB1	P46663	CHEMBL4308	Family A G protein-coupled receptor	0
CDK1 CCNB1	P06493 P14635	CHEMBL1907602	Other cytosolic protein	0
PTPsigma	Q9UM81	CHEMBL2146342	Unclassified protein	0
AGTR1	P30556	CHEMBL227	Family A G protein-coupled receptor	0
CSNK1A1	P48729	CHEMBL2793	Kinase	0
MMP1	P03956	CHEMBL332	Protease	0
IMPDH2	P12268	CHEMBL2002	Oxidoreductase	0
PLEC	Q15149	CHEMBL1293240	Unclassified protein	0
BTK	Q06187	CHEMBL5251	Kinase	0
AURKB	Q96GD4	CHEMBL2185	Kinase	0
AURKA	O14965	CHEMBL4722	Kinase	0
BACE1	P56817	CHEMBL4822	Protease	0
CCR9	P51686	CHEMBL5815	Family A G protein-coupled receptor	0
CXCR2	P25025	CHEMBL2434	Family A G protein-coupled receptor	0
NTRK1	P04629	CHEMBL2815	Kinase	0
CX3CR1	P49238	CHEMBL4843	Family A G protein-coupled receptor	0
CAPN1	P07384	CHEMBL3891	Protease	0
CCNB3 CDK1 CCNB1 CCNB2 Q8WWL7 P06493 P14635 O95067		CHEMBL2094127	Other cytosolic protein	0
MTOR	P42345	CHEMBL2842	Kinase	0
SPHK2	Q9NRA0	CHEMBL3023	Enzyme	0
CDK1	P06493	CHEMBL308	Kinase	0
CDK5	Q00535	CHEMBL4036	Kinase	0
PLA2G2E	Q9NZK7	CHEMBL2154	Enzyme	0
MAPK8	P45983	CHEMBL2276	Kinase	0

LCK	P06239	CHEMBL258	Kinase	0
PLA2G2A	P14555	CHEMBL3474	Enzyme	0
PLA2G2F	Q9BZM2	CHEMBL4278	Enzyme	0
PLA2G2D	Q9UNK4	CHEMBL4281	Enzyme	0
PLA2G5	P39877	CHEMBL4323	Enzyme	0
PLA2G10	O15496	CHEMBL4342	Enzyme	0
PLA2G1B	P04054	CHEMBL4426	Enzyme	0
UGCG	Q16739	CHEMBL2063	Transferase	0
ESR1	P03372	CHEMBL206	Nuclear receptor	0
ELANE	P08246	CHEMBL248	Protease	0
CA1	P00915	CHEMBL261	Lyase	0
CA12	O43570	CHEMBL3242	Lyase	0
CA9	Q16790	CHEMBL3594	Lyase	0
PRTN3	P24158	CHEMBL3900	Protease	0
BRS3	P32247	CHEMBL4080	Family A G protein-coupled receptor	0
CCNE2 CDK2 CCNE1	O96020 P24941 P24864	CHEMBL2094126	Other cytosolic protein	0
SAE1 UBA2	Q9UBE0 Q9UBT2	CHEMBL2095174	Enzyme	0
SYK	P43405	CHEMBL2599	Kinase	0
CDK2	P24941	CHEMBL301	Kinase	0
CDK7	P50613	CHEMBL3055	Kinase	0
HSP90AA1	P07900	CHEMBL3880	Other cytosolic protein	0
CRHR1	P34998	CHEMBL1800	Family B G protein-coupled receptor	0
CNR1	P21554	CHEMBL218	Family A G protein-coupled receptor	0
CCR4	P51679	CHEMBL2414	Family A G protein-coupled receptor	0
CNR2	P34972	CHEMBL253	Family A G protein-coupled receptor	0
MMP13	P45452	CHEMBL280	Protease	0

Supplementary Table. S3. The glioblastoma multiforme related genes from GeneCards

Symbol	Category	Gifts	GC Id	Relevance score
TP53	Protein Coding	60	GC17M007661	67.59673309
EGFR	Protein Coding	62	GC07P055019	50.88725662
PTEN	Protein Coding	58	GC10P098516	45.17482758
PIK3CA	Protein Coding	59	GC03P179148	44.90531158
IDH1	Protein Coding	60	GC02M208236	43.9446907
MGMT	Protein Coding	56	GC10P129467	34.71158981
MTOR	Protein Coding	62	GC01M011106	31.29307556
H3-3A	Protein Coding	49	GC01P226062	30.05535507
MSH2	Protein Coding	56	GC02P047403	29.8753376
BRAF	Protein Coding	61	GC07M140751	29.20321465
GLIDR	RNA Gene	17	GC09M039708	27.40535736
SCARNA5	RNA Gene	22	GC02P233275	27.15465736
FGFR1	Protein Coding	62	GC08M038400	27.0472908
NRAS	Protein Coding	57	GC01M114704	26.85054016
FBXW7	Protein Coding	52	GC04M152321	26.68463516
HRAS	Protein Coding	59	GC11M007933	26.65739822
ERBB2	Protein Coding	62	GC17P039687	26.64879227
ATM	Protein Coding	60	GC11P108222	25.32322311
PIK3R1	Protein Coding	58	GC05P068215	25.15014076
MYCN	Protein Coding	54	GC02P015951	24.73625374
CREBBP	Protein Coding	61	GC16M010660	24.16220856
POLE	Protein Coding	56	GC12M132740	23.50858688
LRRC56	Protein Coding	42	GC11P002827	23.28011894
MIR21	RNA Gene	26	GC17P078777	22.4978447
C11orf65	Protein Coding	37	GC11M108308	22.30434799
DNMT3A	Protein Coding	58	GC02M025228	22.2246151
LZTR1	Protein Coding	50	GC22P051848	21.5739975
MYCNOS	RNA Gene	30	GC02M015918	21.17991638
H19	RNA Gene	30	GC11M001995	20.84415436
CYTOR	RNA Gene	25	GC02P088529	19.9314518
MEG3	RNA Gene	31	GC14P112719	18.94997406
HOTAIRM1	RNA Gene	22	GC07P027095	18.9256649
PPARG	Protein Coding	60	GC03P012287	18.85049057
XIST	RNA Gene	26	GC0XM073820	18.84051514
GAS5	RNA Gene	26	GC01M173947	18.79524422
MSH6	Protein Coding	56	GC02P047695	18.75238037
DGCR5	RNA Gene	24	GC22P051756	18.72659683
BCYRN1	RNA Gene	22	GC02P047253	18.68458557
IDH2	Protein Coding	59	GC15M090083	18.61746216
CDKN2A	Protein Coding	58	GC09M021967	18.32048988
MIR222	RNA Gene	23	GC0XM045747	18.29656219

MIR221	RNA Gene	23	GC0XM045746	18.27032852
LINC02604	RNA Gene	17	GC07P079334	17.95802307
PMS2	Protein Coding	56	GC07M005973	17.63759232
MIR155HG	RNA Gene	25	GC21P025609	17.58749008
MALAT1	RNA Gene	27	GC11P072906	17.56580925
MIR10B	RNA Gene	25	GC02P176150	17.50885201
MIR137	RNA Gene	21	GC01M098046	17.39272499
HOTAIR	RNA Gene	27	GC12M053962	17.3102951
MIR128-1	RNA Gene	21	GC02P135665	17.18532753
MIR34A	RNA Gene	25	GC01M010148	17.03468132
MIR155	RNA Gene	24	GC21P025573	17.02954483
MIAT	RNA Gene	27	GC22P026646	16.941082
MIR133B	RNA Gene	24	GC06P052148	16.86297607
MIR210	RNA Gene	24	GC11M007939	16.79156876
NOS2	Protein Coding	56	GC17M027756	16.78530502
BRCA2	Protein Coding	54	GC13P032315	16.74372482
MIR451A	RNA Gene	20	GC17M028861	16.713974
MIR125B1	RNA Gene	24	GC11M122100	16.65885162
TP73-AS1	RNA Gene	25	GC01M009965	16.65782928
MIR125B2	RNA Gene	24	GC21P016590	16.62516594
SNHG7	RNA Gene	24	GC09M138183	16.59540558
MIR182	RNA Gene	24	GC07M129770	16.55512047
RAMP2-AS1	RNA Gene	20	GC17M060873	16.509058
MIR197	RNA Gene	21	GC01P109598	16.49403191
SLX4	Protein Coding	45	GC16M003581	16.49010277
MIR181C	RNA Gene	22	GC19P082713	16.48385811
MIR191	RNA Gene	24	GC03M052400	16.47200966
MIR296	RNA Gene	20	GC20M058817	16.47068405
MIR23A	RNA Gene	24	GC19M015531	16.43294144
MLH1	Protein Coding	56	GC03P036993	16.37016678
MIR130A	RNA Gene	24	GC11P057641	16.36323929
MIR9-2	RNA Gene	22	GC05M088666	16.35376167
MDM2	Protein Coding	60	GC12P068808	16.34848785
MIR25	RNA Gene	22	GC07M100093	16.27442932
MCM3AP-AS1	RNA Gene	23	GC21P046445	16.24849319
MIR149	RNA Gene	25	GC02P240456	16.23880768
MIR323A	RNA Gene	20	GC14P112730	16.1769352
MIR185	RNA Gene	25	GC22P051788	16.17619324
MIR328	RNA Gene	22	GC16M067203	16.16571426
PWAR5	RNA Gene	18	GC15P053126	16.13642311
HIF1A-AS2	RNA Gene	18	GC14M061747	16.12746239
MIR326	RNA Gene	24	GC11M075335	16.10422897
MIR181A2	RNA Gene	23	GC09P124692	16.0654335

MIR132	RNA Gene	24	GC17M002049	16.04504013
MIR17HG	RNA Gene	29	GC13P091347	16.02922821
PART1	RNA Gene	26	GC05P060570	15.7595253
WEE2-AS1	RNA Gene	22	GC07M141704	15.7595253
GAPLINC	RNA Gene	18	GC18P003467	15.7595253
AGAP2-AS1	RNA Gene	17	GC12P057726	15.7595253
TUG1	Protein Coding	26	GC22P030969	15.7590704
MIR425	RNA Gene	22	GC03M052399	15.68749237
HOXA-AS3	RNA Gene	21	GC07P027129	15.67808628
LINC01116	RNA Gene	20	GC02M176400	15.67808628
PCAT1	RNA Gene	20	GC08P126553	15.67590714
MIR23B	RNA Gene	22	GC09P095085	15.6533041
MIR486-1	RNA Gene	21	GC08M041660	15.65312386
TUSC7	RNA Gene	20	GC03P116647	15.53444672
MIR24-2	RNA Gene	22	GC19M015529	15.44139767
MIR24-1	RNA Gene	21	GC09P095086	15.44139767
CNTN2	Protein Coding	52	GC01P205043	15.36208057
SNHG4	RNA Gene	21	GC05P139273	15.31177044
NCRUPAR	RNA Gene	14	GC05P076711	15.26918411
ANKH	Protein Coding	47	GC05M014770	15.24111938
LINC00572	RNA Gene	18	GC13M029918	15.24111938
LINC00963	RNA Gene	18	GC09P130154	15.24111938
LINC01104	RNA Gene	18	GC02P100208	15.24111938
PDYN-AS1	RNA Gene	18	GC20P001896	15.24111938
LINC01277	RNA Gene	17	GC06M142966	15.24111938
LINC01494	RNA Gene	17	GC02M218900	15.24111938
LOC100130691	RNA Gene	17	GC02M177283	15.24111938
PTCSC2	RNA Gene	17	GC09M097699	15.24111938
LINC01471	RNA Gene	16	GC03M127480	15.24111938
LOC285638	RNA Gene	16	GC05M109237	15.24111938
RPS3AP25	Pseudogene	10	GC07M094694	15.24111938
LOC105377407	RNA Gene	6	GC04M124033	15.24111938
APTR	RNA Gene	18	GC07M077477	14.76936531
H3C1	Protein Coding	45	GC06P103886	14.75361729
LINC00663	RNA Gene	20	GC19M079263	14.66944981
RBM5-AS1	RNA Gene	13	GC03M050099	14.66944981
LINC00173	RNA Gene	25	GC12P116533	14.5329628
LINC00689	RNA Gene	20	GC07P159006	14.5329628
PDGFRA	Protein Coding	60	GC04P054229	14.3504467
VEGFA	Protein Coding	56	GC06P043770	13.92564392
AKT1	Protein Coding	60	GC14M104769	13.44889069
CDK4	Protein Coding	61	GC12M058711	13.03706837
NFKBIA	Protein Coding	57	GC14M035401	12.99756908

TERT	Protein Coding	58	GC05M001253	12.94448757
KRAS	Protein Coding	60	GC12M025583	12.57247353
FGFR3	Protein Coding	62	GC04P001900	12.47213936
HIF1A	Protein Coding	55	GC14P061695	12.13961792
TACC3	Protein Coding	49	GC04P001883	11.98932934
MET	Protein Coding	61	GC07P116672	11.98832703
APC	Protein Coding	56	GC05P112707	11.8919611
STAT3	Protein Coding	61	GC17M042313	11.65082836
NF1	Protein Coding	54	GC17P031094	11.38899231
ENSG00000262961	Pseudogene	3	GC17P006535	11.34760571
ENSG00000275138	Pseudogene	3	GC06M141019	11.34760571
TACC1	Protein Coding	47	GC08P038728	11.34684181
ADGRB1	Protein Coding	44	GC08P142449	11.3295517
CASC2	RNA Gene	29	GC10P118046	11.24859047
CCDC26	RNA Gene	31	GC08M133892	11.23613071
RB1	Protein Coding	55	GC13P048303	11.12675095
MYC	Protein Coding	59	GC08P127735	11.10643482
EGF	Protein Coding	58	GC04P109912	10.99501038
GFAP	Protein Coding	55	GC17M061018	10.72580624
PRKCH	Protein Coding	56	GC14P061187	10.53980923
BCL2	Protein Coding	58	GC18M063123	10.43608189
CASP3	Protein Coding	56	GC04M184627	10.40214157
SEPTIN14	Protein Coding	34	GC07M062307	10.34535789
DANCR	RNA Gene	26	GC04P052712	10.24978542
MIR106A	RNA Gene	21	GC0XM134379	10.03830814
MAPK1	Protein Coding	60	GC22M021759	10.03692532
CDKN1A	Protein Coding	56	GC06P104241	10.00839233
CDKN2B-AS1	RNA Gene	26	GC09P021994	9.974207878
CCND1	Protein Coding	60	GC11P069641	9.94199276
AKT3	Protein Coding	61	GC01M243488	9.905701637
PRKCA	Protein Coding	57	GC17P066302	9.859972954
PDGFRB	Protein Coding	60	GC05M150113	9.736599922
CDK2	Protein Coding	58	GC12P055966	9.649267197
OLIG2	Protein Coding	46	GC21P033025	9.625786781
MMP9	Protein Coding	60	GC20P046008	9.416440964
DLEU2	RNA Gene	26	GC13M049913	9.415677071
TGFB2	Protein Coding	58	GC01P218345	9.371414185
DLX6-AS1	RNA Gene	25	GC07M096991	9.341342926
CTNNB1	Protein Coding	60	GC03P041194	9.272963524
DMBT1	Protein Coding	46	GC10P122560	9.260121346
PHF3	Protein Coding	44	GC06P063635	9.250320435
CCND2	Protein Coding	55	GC12P028136	9.164388657
MMP2	Protein Coding	60	GC16P055390	9.137140274

GLI1	Protein Coding	56	GC12P058191	9.100523949
PTK2	Protein Coding	54	GC08M140657	9.098384857
MAPK8	Protein Coding	56	GC10P048306	9.086732864
BAX	Protein Coding	57	GC19P048954	9.065954208
GSK3B	Protein Coding	57	GC03M119821	9.019771576
CDKN1B	Protein Coding	56	GC12P028528	9.005297661
SRC	Protein Coding	58	GC20P037344	8.992781639
ENTPD1-AS1	RNA Gene	20	GC10M095753	8.988641739
E2F1	Protein Coding	50	GC20M033675	8.959979057
CDKN2B	Protein Coding	53	GC09M022002	8.906579018
CDK6	Protein Coding	58	GC07M092604	8.906355858
KDR	Protein Coding	60	GC04M055078	8.834314346
IGF1R	Protein Coding	61	GC15P098648	8.826630592
MAPK3	Protein Coding	56	GC16M040839	8.816984177
NES	Protein Coding	47	GC01M156668	8.787967682
CHI3L1	Protein Coding	51	GC01M203148	8.771813393
CXCR4	Protein Coding	59	GC02M136114	8.74285984
CASP8	Protein Coding	59	GC02P201233	8.700838089
FALEC	RNA Gene	18	GC01P154276	8.693903923
DLG1-AS1	RNA Gene	18	GC03P197298	8.663228989
RAC1	Protein Coding	56	GC07P006378	8.653578758
CASC15	RNA Gene	21	GC06P021676	8.623252869
TNFSF10	Protein Coding	51	GC03M172505	8.620172501
CASP9	Protein Coding	54	GC01M015491	8.607105255
H3-3B	Protein Coding	47	GC17M075823	8.584843636
GOPC	Protein Coding	48	GC06M117560	8.569883347
NIPSNAP2	Protein Coding	45	GC07P059653	8.526836395
DDX11-AS1	RNA Gene	17	GC12M031020	8.498389244
BIRC5	Protein Coding	52	GC17P078214	8.492261887
DLGAP1-AS2	RNA Gene	19	GC18P003610	8.46771431
LGI1	Protein Coding	51	GC10P093757	8.416770935
PIK3CG	Protein Coding	56	GC07P106865	8.315223694
RAF1	Protein Coding	61	GC03M012583	8.287870407
VEGFC	Protein Coding	54	GC04M176683	8.28083992
ALK	Protein Coding	57	GC02M029190	8.247461319
PDGFB	Protein Coding	58	GC22M069031	8.207848549
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PARP1	Protein Coding	57	GC01M226360	8.153328896
PDGFA	Protein Coding	50	GC07M000497	8.123226166
PRKCB	Protein Coding	55	GC16P046737	8.122153282
FOXO3	Protein Coding	54	GC06P108559	8.094397545
CXCL12	Protein Coding	52	GC10M044370	8.091645241
DIO3OS	RNA Gene	24	GC14M101552	8.051584244

AIRN	RNA Gene	21	GC06M160003	8.051584244
AKT2	Protein Coding	61	GC19M040230	8.031547546
FAM201A	RNA Gene	25	GC09P038620	8.011608124
DNAJC9-AS1	RNA Gene	23	GC10P073247	8.011608124
CAHM	RNA Gene	20	GC06M163413	8.011608124
APCDD1L-DT	RNA Gene	18	GC20P058516	8.011608124
RHOA	Protein Coding	57	GC03M049359	7.992710114
CCND3	Protein Coding	53	GC06M041934	7.969176292
ADGRB3	Protein Coding	45	GC06P068635	7.965777397
CD44	Protein Coding	55	GC11P035139	7.957236767
ABCB1	Protein Coding	58	GC07M087504	7.930795193
CCDC181	Protein Coding	40	GC01M169394	7.91509676
COLCA1	RNA Gene	29	GC11M111290	7.91509676
FAM215A	RNA Gene	28	GC17P043917	7.91509676
AFDN-DT	RNA Gene	26	GC06M167801	7.91509676
C21orf62-AS1	RNA Gene	26	GC21P032772	7.91509676
FAM167A-AS1	RNA Gene	25	GC08P011461	7.91509676
CCDC196	Protein Coding	24	GC14P066411	7.91509676
CYP1B1-AS1	RNA Gene	24	GC02P038075	7.91509676
EMX2OS	RNA Gene	24	GC10M117473	7.91509676
FBXL19-AS1	RNA Gene	24	GC16M040932	7.91509676
CFLAR-AS1	RNA Gene	21	GC02M201140	7.91509676
COL18A1-AS1	RNA Gene	21	GC21M045419	7.91509676
COL25A1-DT	RNA Gene	21	GC04P109301	7.91509676
DISC2	RNA Gene	21	GC01M231814	7.91509676
DGUOK-AS1	RNA Gene	20	GC02M073947	7.91509676
FAM181A-AS1	RNA Gene	20	GC14M115264	7.91509676
BNC2-AS1	RNA Gene	19	GC09P016727	7.91509676
ASAP1-IT1	RNA Gene	18	GC08M130295	7.91509676
BASP1-AS1	RNA Gene	18	GC05M016991	7.91509676
BCDIN3D-AS1	RNA Gene	18	GC12P050445	7.91509676
CASC11	RNA Gene	18	GC08M133882	7.91509676
DCTN1-AS1	RNA Gene	18	GC02P074390	7.91509676
DNAJC27-AS1	RNA Gene	18	GC02P024971	7.91509676
EOLA2-DT	RNA Gene	18	GC0XP149932	7.91509676
EXTL3-AS1	RNA Gene	18	GC08M028679	7.91509676
FAM138D	RNA Gene	18	GC12M000036	7.91509676
FAM223A	RNA Gene	18	GC0XP154571	7.91509676
FAM225A	RNA Gene	18	GC09P113112	7.91509676
ATP13A3-DT	RNA Gene	17	GC03P194485	7.91509676
ATP2B1-AS1	RNA Gene	17	GC12P089709	7.91509676
BAALC-AS1	RNA Gene	17	GC08M103156	7.91509676
CADM3-AS1	RNA Gene	17	GC01M159193	7.91509676

CARNMT1-AS1	RNA Gene	17	GC09P075084	7.91509676
CCDC144NL-AS1	RNA Gene	17	GC17P079284	7.91509676
CCNT2-AS1	RNA Gene	17	GC02M134735	7.91509676
CLMAT3	RNA Gene	17	GC05P151677	7.91509676
DACT3-AS1	RNA Gene	17	GC19P046660	7.91509676
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EDNRB-AS1	RNA Gene	17	GC13P077779	7.91509676
EOLA1-DT	RNA Gene	17	GC0XM149501	7.91509676
F11-AS1	RNA Gene	17	GC04M186286	7.91509676
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ANP32A-IT1	RNA Gene	16	GC15M068803	7.91509676
ATP13A4-AS1	RNA Gene	16	GC03P193539	7.91509676
CADM2-AS2	RNA Gene	16	GC03M085850	7.91509676
CFAP20DC-AS1	RNA Gene	16	GC03P058825	7.91509676
CLIP1-AS1	RNA Gene	16	GC12P122395	7.91509676
CACNA1C-AS2	RNA Gene	15	GC12M002668	7.91509676
DIO2-AS1	RNA Gene	15	GC14P080211	7.91509676
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CYMP-AS1	RNA Gene	14	GC01M110488	7.91509676
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TNFRSF10B	Protein Coding	57	GC08M023020	7.803397179
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PRKCD	Protein Coding	58	GC03P053156	7.760350227
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PGF	Protein Coding	51	GC14M074941	7.7172575
IGFBP2	Protein Coding	50	GC02P216632	7.70828867
NDRG4	Protein Coding	45	GC16P058462	7.68295145
IGF2	Protein Coding	56	GC11M008042	7.619398117
TNC	Protein Coding	56	GC09M115019	7.612789631
KIT	Protein Coding	60	GC04P054657	7.592545986
MTDH	Protein Coding	46	GC08P097644	7.536331654
PLAU	Protein Coding	58	GC10P073909	7.532678127
MMP14	Protein Coding	58	GC14P038444	7.521955013
PLCG1	Protein Coding	54	GC20P041136	7.499095917
CYCS	Protein Coding	55	GC07M025118	7.489068031

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IL4R	Protein Coding	54	GC16P046806	7.444586277
NF2	Protein Coding	56	GC22P029603	7.43710947
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SP1	Protein Coding	52	GC12P053380	7.412502766
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LGALS1	Protein Coding	49	GC22P037675	7.386474133
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PROM1	Protein Coding	53	GC04M015965	7.372223854
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MAP2K1	Protein Coding	61	GC15P066386	7.141594887
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CBX8	Protein Coding	44	GC17M079794	6.786022663

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ANGPT2	Protein Coding	56	GC08M006499	6.758239269
FLT1	Protein Coding	58	GC13M028300	6.710902691
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TNFAIP3	Protein Coding	54	GC06P137866	6.63395834
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PIK3R3	Protein Coding	52	GC01M046041	6.52317667
AXIN1	Protein Coding	53	GC16M000287	6.518764019
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DIRAS3	Protein Coding	38	GC01M068045	6.492501736
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TCF3	Protein Coding	53	GC19M001609	6.412951469
FOXP3	Protein Coding	54	GC0XM049250	6.3834939
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CSF3	Protein Coding	47	GC17P040015	6.349306583
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NFATC1	Protein Coding	54	GC18P079395	6.196107388
ADAR	Protein Coding	52	GC01M156147	6.178947449

HOXA11	Protein Coding	48	GC07M027810	6.178477287
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SOCS1	Protein Coding	52	GC16M013141	6.079662323
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SERPINE2	Protein Coding	48	GC02M223975	5.668399811
TJP2	Protein Coding	52	GC09P069121	5.652873993
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AGAP2	Protein Coding	46	GC12M057723	5.465900421
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H3C3	Protein Coding	40	GC06P103889	5.332046032
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BDNF-AS	RNA Gene	24	GC11P027619	5.204376221
SYP	Protein Coding	53	GC0XM049187	5.158743382
TMX2-CTNND1	RNA Gene	18	GC11P057712	5.102715015
H3C11	Protein Coding	41	GC06M081759	5.069733143
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IL2	Protein Coding	52	GC04M122451	4.912509441
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FAN1	Protein Coding	46	GC15P053405	4.752714634
EPCAM	Protein Coding	55	GC02P047345	4.693686962
MLH3	Protein Coding	47	GC14M075013	4.653710842
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BRCA1	Protein Coding	57	GC17M043044	4.467913151

SOD2-OT1	RNA Gene	14	GC06M159772	4.442967415
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VIM	Protein Coding	58	GC10P017227	4.432820797
POU5F1	Protein Coding	53	GC06M080873	4.260539055
EZH2	Protein Coding	60	GC07M148807	4.203907967
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SERPINA3	Protein Coding	50	GC14P094612	4.145652294
MIR493HG	RNA Gene	14	GC14P112754	4.115873337
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NANOG	Protein Coding	44	GC12P007787	4.112713337
STAT5B	Protein Coding	57	GC17M042199	4.073548794
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MED12	Protein Coding	51	GC0XP071118	3.298173904
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PVT1	RNA Gene	29	GC08P127908	3.274654865
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RAD51	Protein Coding	57	GC15P040694	2.865111113
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MIR7-3HG	RNA Gene	29	GC19P006171	2.798130512
ADGRB2	Protein Coding	46	GC01M031727	2.778151989
SBF2-AS1	RNA Gene	20	GC11P009758	2.776738167
MIR31	RNA Gene	22	GC09M021951	2.770847321
TMEM168	Protein Coding	40	GC07M112762	2.748561382
TIMP1	Protein Coding	52	GC0XP047922	2.733007908
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AQP4	Protein Coding	53	GC18M026852	2.720560312
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CCL2	Protein Coding	55	GC17P034255	2.698750496
BMI1	Protein Coding	49	GC10P022326	2.691786766
ZEB1	Protein Coding	56	GC10P031318	2.690762997
PGR-AS1	RNA Gene	13	GC11P101131	2.686310291
ENO2	Protein Coding	54	GC12P006913	2.685065985
SLC2A1	Protein Coding	60	GC01M042925	2.685031891
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PINK1	Protein Coding	53	GC01P020634	2.671587944
FANCM	Protein Coding	49	GC14P045135	2.647651196
CBL	Protein Coding	58	GC11P119206	2.635162115
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TNF	Protein Coding	58	GC06P104098	2.618435383
PDCD1	Protein Coding	54	GC02M241849	2.615858316
BCL2L11	Protein Coding	52	GC02P111119	2.603379488
TSPO	Protein Coding	51	GC22P043151	2.601416588
CTC1	Protein Coding	43	GC17M013563	2.585876465
GSTP1	Protein Coding	57	GC11P067583	2.575271368
SLC6A16	Protein Coding	42	GC19M049289	2.564169884
NRP1	Protein Coding	54	GC10M033177	2.559062243
MIR148A	RNA Gene	22	GC07M025950	2.551422119
MIR125A	RNA Gene	24	GC19P083773	2.543536186
YAP1	Protein Coding	54	GC11P102110	2.541137934
LINC00977	RNA Gene	18	GC08M133891	2.537596703
LINC00976	RNA Gene	16	GC08M128634	2.537596703
ATP23	Protein Coding	41	GC12P058234	2.525531292
LNCARSR	RNA Gene	17	GC09M079507	2.516371965
MIR145	RNA Gene	26	GC05P149430	2.516080141
ROCK1	Protein Coding	56	GC18M020946	2.505174637
RTEL1	Protein Coding	48	GC20P063833	2.50412941
SMAD4	Protein Coding	60	GC18P051028	2.504005432
NBN	Protein Coding	55	GC08M089933	2.497834444
POT1	Protein Coding	49	GC07M124822	2.495340586
PIK3CB	Protein Coding	54	GC03M138652	2.472279072
FAP	Protein Coding	53	GC02M162170	2.467790365
PHF20	Protein Coding	45	GC20P035771	2.465484619
TOP1	Protein Coding	56	GC20P041028	2.453947067
ZNF263	Protein Coding	43	GC16P045995	2.446280003
MIR124-1	RNA Gene	22	GC08M009903	2.437173843

TBP	Protein Coding	56	GC06P170554	2.435319662
HES1	Protein Coding	51	GC03P194136	2.43387723
XRCC6	Protein Coding	52	GC22P052578	2.427219152
RELA	Protein Coding	58	GC11M065653	2.426331043
IFNA1	Protein Coding	46	GC09P021647	2.419231653
ESR1	Protein Coding	61	GC06P151656	2.41802907
MIR203A	RNA Gene	24	GC14P112094	2.40788126
MIR338	RNA Gene	20	GC17M081185	2.40788126
MAP2K6	Protein Coding	53	GC17P069414	2.397772551
BCOR	Protein Coding	50	GC0XM040049	2.396996021
BECN1	Protein Coding	53	GC17M042810	2.395275116
IL4	Protein Coding	53	GC05P132673	2.381348848
LINC-ROR	RNA Gene	19	GC18M057054	2.375269175
DNMT1	Protein Coding	59	GC19M010133	2.374004841
ADM	Protein Coding	52	GC11P010304	2.373927593
MIR29A	RNA Gene	24	GC07M130876	2.373927593
MIR7-3	RNA Gene	21	GC19P004770	2.360281706
MIR7-2	RNA Gene	20	GC15P088611	2.360281706
MIR320A	RNA Gene	24	GC08M022288	2.35580349
HSPA1A	Protein Coding	53	GC06P104117	2.354737997
MAPK14	Protein Coding	57	GC06P104232	2.341011047
ADAMTS9-AS2	RNA Gene	21	GC03P064671	2.333928347
FPR1	Protein Coding	53	GC19M051745	2.326805115
AURKB	Protein Coding	58	GC17M013554	2.319689274
ADGRL4	Protein Coding	45	GC01M078889	2.318083525
MIR27A	RNA Gene	25	GC19M015530	2.317490101
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SNORD118	RNA Gene	22	GC17M013550	2.305569649
CCN1	Protein Coding	47	GC01P085585	2.300889015
MRPS12	Protein Coding	45	GC19P038930	2.29945302
TSPAN4	Protein Coding	43	GC11P002896	2.298832417
TOP2A	Protein Coding	57	GC17M040388	2.287377596
CHEK1	Protein Coding	57	GC11P125625	2.283292294
CFLAR	Protein Coding	51	GC02P201341	2.27803874
PWAR1	RNA Gene	17	GC15P025135	2.277385712
CSF2	Protein Coding	52	GC05P132073	2.266662121
CA9	Protein Coding	53	GC09P035673	2.266587257
PDCD4	Protein Coding	49	GC10P110871	2.265024185
CSNK2A1	Protein Coding	57	GC20M000472	2.260114431
CDK1	Protein Coding	55	GC10P060772	2.258592367
GCH1	Protein Coding	54	GC14M054842	2.258030176
MXI1	Protein Coding	48	GC10P110208	2.255649805
LINC00461	RNA Gene	25	GC05M088507	2.247043371

TGFA	Protein Coding	53	GC02M070447	2.238976717
FREM2	Protein Coding	45	GC13P038687	2.238709211
AEBP1	Protein Coding	48	GC07P044145	2.237098694
ILK	Protein Coding	51	GC11P006604	2.230506897
MIR22HG	RNA Gene	31	GC17M013197	2.226872206
MIR195	RNA Gene	22	GC17M013477	2.226388931
TNFSF12	Protein Coding	45	GC17P013018	2.223592997
EPAS1	Protein Coding	57	GC02P046293	2.222104788
CSPG4	Protein Coding	53	GC15M075674	2.220734835
LRP1	Protein Coding	54	GC12P057128	2.213704586
RPS6KA3	Protein Coding	60	GC0XM020149	2.213023186
TFRC	Protein Coding	57	GC03M196144	2.209082842
CDKN2C	Protein Coding	51	GC01P050960	2.20785737
ICAM1	Protein Coding	57	GC19P011104	2.207248926
TSPAN31	Protein Coding	46	GC12P057738	2.204440355
HOXA11-AS	RNA Gene	24	GC07P027184	2.202171087
HSPA5	Protein Coding	56	GC09M125234	2.201804161
MIR34C	RNA Gene	24	GC11P112126	2.200107574
MIR128-2	RNA Gene	23	GC03P035754	2.189007282
SNORD44	RNA Gene	16	GC01M174762	2.189007282
PKM	Protein Coding	56	GC15M072199	2.188701153
MIR302A	RNA Gene	22	GC04M112856	2.182670116
SRPK2	Protein Coding	50	GC07M105110	2.173047066
IRS1	Protein Coding	54	GC02M226731	2.168318272
NOTCH2	Protein Coding	58	GC01M119911	2.161518097
FABP7	Protein Coding	49	GC06P122857	2.158887863
HEATR1	Protein Coding	45	GC01M236549	2.157780647
DUSP26	Protein Coding	40	GC08M033591	2.157780647
FTO	Protein Coding	54	GC16P053949	2.157429457
YBX1	Protein Coding	47	GC01P042682	2.152045727
GDF15	Protein Coding	49	GC19P082847	2.151799679
SOD2	Protein Coding	54	GC06M159669	2.150855064
TRIM33	Protein Coding	51	GC01M114392	2.150161028
HOXD-AS2	RNA Gene	20	GC02M176121	2.147983789
FZD6	Protein Coding	53	GC08P103298	2.145535231
TP73	Protein Coding	52	GC01P003652	2.142502546
MIR98	RNA Gene	21	GC0XM053666	2.139454842
GPR26	Protein Coding	41	GC10P123666	2.139033794
PAX6	Protein Coding	54	GC11M031784	2.136531353
MIRLET7C	RNA Gene	25	GC21P016559	2.136531353
HSPB8	Protein Coding	52	GC12P119173	2.132038355
MDM4	Protein Coding	53	GC01P204516	2.131078959
ITGB1	Protein Coding	57	GC10M034478	2.12969017

LINC01618	RNA Gene	17	GC04P052873	2.128710747
SLC7A11	Protein Coding	51	GC04M138164	2.119131804
HSPA8	Protein Coding	56	GC11M123057	2.118254662
ABCC3	Protein Coding	52	GC17P050634	2.118254662
NQO1	Protein Coding	54	GC16M069706	2.116826773
EFNB3	Protein Coding	48	GC17P013030	2.11661911
ELK1	Protein Coding	50	GC0XM047635	2.115131855
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IFNB1	Protein Coding	49	GC09M021077	2.105293036
KCNK1	Protein Coding	51	GC01P233614	2.103938103
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RPL23	Protein Coding	47	GC17M038847	2.103938103
TPTE	Protein Coding	43	GC21P010521	2.103938103
XRRA1	Protein Coding	41	GC11M074807	2.103938103
HCCAT5	RNA Gene	19	GC16P073092	2.103739023
MAP3K5	Protein Coding	55	GC06M136557	2.103317738
MAPKAPK5	Protein Coding	52	GC12P111842	2.103317738
PTCH2	Protein Coding	52	GC01M044819	2.103317738
CLEC1A	Protein Coding	47	GC12M024901	2.103317738
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CARD6	Protein Coding	44	GC05P040841	2.103317738
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FILIP1	Protein Coding	42	GC06M075291	2.103317738
PRR15	Protein Coding	40	GC07P029563	2.103317738
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ANKRD23	Protein Coding	37	GC02M099658	2.103317738
TEN1	Protein Coding	36	GC17P079493	2.103317738
MIR129-1	RNA Gene	20	GC07P128207	2.100918531
TFPI2	Protein Coding	49	GC07M093885	2.09867239
MIF	Protein Coding	54	GC22P023894	2.096982956
SOX9	Protein Coding	52	GC17P072121	2.096982956
TUBB3	Protein Coding	56	GC16P092043	2.096245289
SIK1	Protein Coding	53	GC21M043414	2.092062235
TRIB3	Protein Coding	49	GC20P000361	2.092062235
MIR494	RNA Gene	19	GC14P112755	2.091104507
LOC126862571	Functional Element	4	GC17P080721	2.08981657
SPRY2	Protein Coding	53	GC13M080335	2.089000463
PRMT5	Protein Coding	53	GC14M022920	2.088437557
MIR20A	RNA Gene	22	GC13P091621	2.088406086
CCN2	Protein Coding	53	GC06M131948	2.085586548
MIRLET7A1	RNA Gene	24	GC09P094175	2.083499908
ANXA2	Protein Coding	54	GC15M060347	2.079847813

GRP	Protein Coding	47	GC18P059220	2.074657917
ABL1	Protein Coding	60	GC09P130713	2.071056128
HMGA2	Protein Coding	50	GC12P065824	2.070937157
F2R	Protein Coding	53	GC05P076716	2.064417362
HOTTIP	RNA Gene	25	GC07P027198	2.061584234
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ENSG00000277469	RNA Gene	6	GC07P027202	2.061584234
ENSG00000277553	RNA Gene	6	GC07P027206	2.061584234
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HSPB1	Protein Coding	58	GC07P076302	2.061499596
CENPU	Protein Coding	45	GC04M184694	2.052413464
ZFAS1	RNA Gene	23	GC20P049276	2.050578594
PAX3	Protein Coding	53	GC02M222199	2.049930096
MTHFR	Protein Coding	54	GC01M011785	2.049870729
MIR181A1	RNA Gene	21	GC01M198860	2.049870729
RFX5-AS1	RNA Gene	14	GC01P154486	2.046850443
LOC100128284	Pseudogene	3	GC17P005730	2.046850443
MIR9-1	RNA Gene	23	GC01M156420	2.045788765
NT5E	Protein Coding	59	GC06P085449	2.045111418
TNFRSF6B	Protein Coding	48	GC20P063696	2.038943291
TLR4	Protein Coding	58	GC09P117704	2.038942099
FADD	Protein Coding	53	GC11P070203	2.038075924
BCAN	Protein Coding	48	GC01P156641	2.035353422
ENSG00000274760	RNA Gene	10	GC20P049279	2.030874014
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PTPRM	Protein Coding	51	GC18P007557	2.028701782
XRCC5	Protein Coding	51	GC02P216107	2.023622751
SNHG1	RNA Gene	23	GC11M109107	2.022157431
PCNA	Protein Coding	57	GC20M005114	2.021572828
MIR648	RNA Gene	18	GC22M017980	2.019898891
JAG1	Protein Coding	57	GC20M010637	2.019795895
TGFBR1	Protein Coding	61	GC09P099104	2.014575005
RNU6-1	RNA Gene	20	GC15M067839	2.014368296
RNU6-2	RNA Gene	17	GC19P005590	2.014368296
RNU6-7	RNA Gene	16	GC14P032202	2.014368296
RNU6-8	RNA Gene	16	GC14M032203	2.014368296
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RNU6-1-001	RNA Gene	8	GC10P013218	2.014368296
RNU6-1-002	RNA Gene	6	GC02M174560	2.014368296
RNU6-1-003	RNA Gene	6	GC03P181233	2.014368296
RNU6-1-004	RNA Gene	6	GC0XM141120	2.014368296
CTNNA1	Protein Coding	53	GC05P138616	2.013317108
TSC1	Protein Coding	54	GC09M132891	2.013109446

MIR124-3	RNA Gene	20	GC20P063802	2.01149869
PGR	Protein Coding	56	GC11M109955	2.008906364
ITPR2	Protein Coding	52	GC12M026336	2.008015633
MIR218-1	RNA Gene	21	GC04P021536	2.007612228
PIK3R2	Protein Coding	57	GC19P018153	2.007502317
ERRF1	Protein Coding	45	GC01M008004	2.004356146
AIFM1	Protein Coding	57	GC0XM130129	2.003916264
AXL	Protein Coding	58	GC19P041219	2.001951694
VWTR1	Protein Coding	46	GC03M149517	2.00144434
SNHG12	RNA Gene	26	GC01M029456	2.000570059
PLEKHG5	Protein Coding	48	GC01M010047	1.998399854
WT1	Protein Coding	55	GC11M032365	1.993727565
SMAD2	Protein Coding	59	GC18M047809	1.992987752
RRAS	Protein Coding	49	GC19M049635	1.988694549
GDNF	Protein Coding	56	GC05M037812	1.981767535
TRA-TGC7-1	RNA Gene	10	GC06M080743	1.980430365
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SOX2-OT	RNA Gene	29	GC03P180989	1.979371548
LRRC4	Protein Coding	46	GC07M128027	1.977054477
NBAT1	RNA Gene	20	GC06M022244	1.976969004
VHL	Protein Coding	54	GC03P014626	1.976391435
PLCB1	Protein Coding	54	GC20P008061	1.973168373
ITGAV	Protein Coding	54	GC02P186589	1.972821116
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MIR373	RNA Gene	22	GC19P083882	1.967179298
CTSL	Protein Coding	54	GC09P087725	1.966049671
MIR330	RNA Gene	22	GC19M079733	1.958842993
MIR370	RNA Gene	24	GC14P112023	1.952584505
SMARCB1	Protein Coding	53	GC22P023786	1.951420426
MIR193A	RNA Gene	22	GC17P031559	1.948502302
PEA15	Protein Coding	48	GC01P160205	1.947417259
NDRG1	Protein Coding	52	GC08M133237	1.94634521
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ENO1	Protein Coding	54	GC01M008861	1.939890385
CD8A	Protein Coding	54	GC02M086784	1.938987494
PIK3C2G	Protein Coding	48	GC12P018242	1.93556428

MIR143	RNA Gene	26	GC05P149417	1.929828525
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PROX1	Protein Coding	50	GC01P213983	1.929093361
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IGFBP3	Protein Coding	53	GC07M045912	1.922610283
CBX6	Protein Coding	42	GC22M038861	1.92228961
YWHAZ	Protein Coding	53	GC08M100917	1.921024442
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FOCAD	Protein Coding	41	GC09P020732	1.91603303
CDC20	Protein Coding	52	GC01P043358	1.909878612
LDLR	Protein Coding	58	GC19P011212	1.907890797
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S1PR1	Protein Coding	52	GC01P101236	1.900591016
FYN	Protein Coding	54	GC06M111660	1.900455713
CEBPB	Protein Coding	50	GC20P050190	1.900455713
LINC00511	RNA Gene	20	GC17M072323	1.899272442
REST	Protein Coding	50	GC04P056907	1.897701263
IL10	Protein Coding	54	GC01M206767	1.896143198
TIMP2	Protein Coding	48	GC17M078852	1.896143198
BAG3	Protein Coding	49	GC10P119651	1.888101339
S1PR2	Protein Coding	50	GC19M010223	1.887407422
ANXA7	Protein Coding	49	GC10M073375	1.887407422
ZNF320	Protein Coding	38	GC19M080060	1.886849642
FGF1	Protein Coding	54	GC05M142555	1.886745572
LOXL1-AS1	RNA Gene	22	GC15M133368	1.877172709
NTN1	Protein Coding	53	GC17P013109	1.875938416
LOC126862483	Functional Element	4	GC17P013274	1.872172117
MAPK10	Protein Coding	56	GC04M085990	1.868460655
TIMP3	Protein Coding	50	GC22P052286	1.868460655
ACTC1	Protein Coding	51	GC15M034790	1.868162155
FZD2	Protein Coding	54	GC17P044557	1.866323471
RND2	Protein Coding	43	GC17P078089	1.866323471
ASCL1	Protein Coding	49	GC12P102957	1.861839056
MTAP	Protein Coding	56	GC09P021806	1.859791279
MIR379	RNA Gene	20	GC14P112741	1.859791279
EPHA3	Protein Coding	53	GC03P089077	1.857240438
LGALS3	Protein Coding	52	GC14P055124	1.857240438
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ADAMTS5	Protein Coding	51	GC21M026918	1.850234747
NOX4	Protein Coding	49	GC11M089324	1.850137472
MIR340	RNA Gene	21	GC05M180015	1.850137472
RAD50	Protein Coding	56	GC05P132556	1.845982313
MIR181B1	RNA Gene	22	GC01M198858	1.842535019

PTPRD	Protein Coding	52	GC09M008307	1.841784835
DLL4	Protein Coding	54	GC15P040929	1.841655374
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CASP7	Protein Coding	56	GC10P113679	1.841017246
MIR216A	RNA Gene	23	GC02M055988	1.840503216
HBEGF	Protein Coding	50	GC05M140332	1.839784384
HMOX1	Protein Coding	59	GC22P035380	1.837130666
KLF4	Protein Coding	53	GC09M107484	1.833822966
CCR5	Protein Coding	53	GC03P051153	1.830530286
PFKFB3	Protein Coding	52	GC10P006144	1.830530286
MIR124-2	RNA Gene	21	GC08P064379	1.830276608
SMAD7	Protein Coding	50	GC18M048919	1.830088615
CCNB1	Protein Coding	53	GC05P069167	1.828266382
DLEU1	RNA Gene	33	GC13P050286	1.827694416
TRE-TTC3-1	RNA Gene	11	GC01P018380	1.826330543
ALDH1A3	Protein Coding	53	GC15P100877	1.826123238
ERBB4	Protein Coding	61	GC02M211375	1.821860075
SFTA3	RNA Gene	36	GC14M036474	1.819797754
OIP5-AS1	RNA Gene	21	GC15P053783	1.819797754
KCNQ1OT1	RNA Gene	30	GC11M008063	1.818868399
MIR196A1	RNA Gene	24	GC17M048632	1.818868399
LINC00504	RNA Gene	20	GC04M014478	1.818868399
TTY10	RNA Gene	18	GC0YM020375	1.818868399
LINC02882	RNA Gene	17	GC12M073212	1.818868399
ARF4-AS1	RNA Gene	16	GC03P057597	1.818868399
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MMP1	Protein Coding	57	GC11M109978	1.809948802
BIRC7	Protein Coding	46	GC20P063235	1.809948802
SRRT	Protein Coding	46	GC07P100875	1.809948802
BIRC3	Protein Coding	53	GC11P102317	1.80956459
MIR15B	RNA Gene	22	GC03P160404	1.808261395
PIN1	Protein Coding	54	GC19P009835	1.80733192
GLUL	Protein Coding	55	GC01M182378	1.804466486
BCL6	Protein Coding	53	GC03M187721	1.803283334
RUNX3	Protein Coding	50	GC01M024899	1.802601695

JAK2	Protein Coding	60	GC09P004985	1.802370548
MIR4435-2HG	RNA Gene	21	GC02M112060	1.800729632
EGR1	Protein Coding	51	GC05P138465	1.799414515
TNFRSF19	Protein Coding	46	GC13P023570	1.79929018
HMGA1	Protein Coding	53	GC06P104203	1.795754313
PLCB3	Protein Coding	55	GC11P064251	1.795672536
PLCD1	Protein Coding	54	GC03M038008	1.795672536
MAP2K7	Protein Coding	52	GC19P007903	1.795672536
FOXO4	Protein Coding	48	GC0XP071095	1.795672536
SNAI1	Protein Coding	50	GC20P049982	1.795450926
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VDR	Protein Coding	57	GC12M047841	1.79181385
CDH2	Protein Coding	58	GC18M030290	1.791812897
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LRIG2	Protein Coding	48	GC01P113073	1.784375429
TRRAP	Protein Coding	52	GC07P098877	1.782659054
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GLS2	Protein Coding	48	GC12M056470	1.777141333
SQSTM1	Protein Coding	56	GC05P179806	1.771192551
FOXG1	Protein Coding	52	GC14P038513	1.771192551
IGF2BP2	Protein Coding	51	GC03M185643	1.771192551
TACR1	Protein Coding	50	GC02M075359	1.770930648
SMAD3	Protein Coding	60	GC15P067063	1.770518064
HOXA9	Protein Coding	45	GC07M027162	1.770518064
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TRP-AGG2-5	RNA Gene	13	GC14M025163	1.770518064
TRP-AGG2-6	RNA Gene	12	GC14M025166	1.770518064
TRP-AGG2-1	RNA Gene	10	GC01M167715	1.770518064
TRP-AGG2-2	RNA Gene	9	GC06P111672	1.770518064
TRP-AGG2-3	RNA Gene	9	GC07P133418	1.770518064
TRP-AGG2-4	RNA Gene	9	GC11P079397	1.770518064
TRP-AGG2-7	RNA Gene	8	GC16M010615	1.770518064
TRP-AGG2-8	RNA Gene	8	GC16P045988	1.770518064
S100A4	Protein Coding	52	GC01M153543	1.770225644
BCL2L2	Protein Coding	49	GC14P038703	1.765604854
HLA-E	Protein Coding	48	GC06P104071	1.765604854
MIR26A1	RNA Gene	24	GC03P037969	1.765604854
RNY3	RNA Gene	18	GC07P152245	1.765604854
RNY5	RNA Gene	14	GC07P148941	1.765604854
NOP53	Protein Coding	41	GC19P083564	1.759045243
ENSG00000271204	RNA Gene	11	GC07M130930	1.758688211
HLA-B	Protein Coding	53	GC06M080881	1.75372386
PARK7	Protein Coding	54	GC01P008210	1.752973557

PES1	Protein Coding	45	GC22M030576	1.746350288
CCL5	Protein Coding	50	GC17M035871	1.742250204
EXO1	Protein Coding	49	GC01P241847	1.7404598
PTK2B	Protein Coding	56	GC08P027311	1.735587955
PRKAA1	Protein Coding	53	GC05M040759	1.735587955
MIR485	RNA Gene	20	GC14P112750	1.734620929
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MAP2K3	Protein Coding	56	GC17P076203	1.733495474
NGF	Protein Coding	58	GC01M115285	1.731853604
KDM1A	Protein Coding	56	GC01P023019	1.731853604
ITGA3	Protein Coding	55	GC17P050055	1.731853604
IL1A	Protein Coding	52	GC02M112773	1.730986476
MIR495	RNA Gene	19	GC14P112756	1.728790879
KCNMA1	Protein Coding	56	GC10M076869	1.727984786
TLR9	Protein Coding	52	GC03M052595	1.7239995
ELAVL1	Protein Coding	48	GC19M007958	1.723329425
PRKN	Protein Coding	56	GC06M161348	1.720753312
CXCR2	Protein Coding	58	GC02P218125	1.720633388
KDM4C	Protein Coding	49	GC09P006720	1.719435573
CAPZA2	Protein Coding	46	GC07P116811	1.717514038
SOD1	Protein Coding	60	GC21P031659	1.717457294
MIRLET7B	RNA Gene	23	GC22P052689	1.715655208
ATP1B2	Protein Coding	50	GC17P013028	1.715045094
RAN	Protein Coding	50	GC12P130874	1.714601517
RIPK1	Protein Coding	56	GC06P003520	1.711713791
G6PD	Protein Coding	57	GC0XM154578	1.707569003
XIAP	Protein Coding	58	GC0XP123859	1.70536828
NEAT1	RNA Gene	28	GC11P072900	1.703123093
ALDH1A1	Protein Coding	54	GC09M072900	1.702003717
HGFAC	Protein Coding	49	GC04P003443	1.702003717
SLC1A2	Protein Coding	57	GC11M035267	1.70105505
WWOX	Protein Coding	52	GC16P078099	1.70105505
LDHA	Protein Coding	57	GC11P018394	1.698939919
SNORD25	RNA Gene	17	GC11M109110	1.698939919
KIF11	Protein Coding	56	GC10P092574	1.697215915
CCNA2	Protein Coding	52	GC04M121816	1.693347096
TGM2	Protein Coding	54	GC20M038127	1.690126419
HLA-A	Protein Coding	53	GC06P104057	1.690126419
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MIR543	RNA Gene	19	GC14P112066	1.689818621
SREBF1	Protein Coding	55	GC17M017810	1.687770605
ING1	Protein Coding	50	GC13P110712	1.687770605
MIR542	RNA Gene	20	GC0XM134725	1.687770605

EPM2AIP1	Protein Coding	41	GC03M037121	1.683924913
ATF4	Protein Coding	53	GC22P039519	1.682381272
TUBG1	Protein Coding	55	GC17P042609	1.678906322
CYP27B1	Protein Coding	53	GC12M058692	1.67596674
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RAB4B-EGLN2	RNA Gene	17	GC19P040778	1.67596674
ITGA6	Protein Coding	57	GC02P172427	1.672874451
DUSP19	Protein Coding	45	GC02P183078	1.671683073
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LRIG1	Protein Coding	49	GC03M066379	1.6696347
ALB	Protein Coding	56	GC04P073397	1.669533253
EGLN1	Protein Coding	57	GC01M231363	1.667369843
MMP13	Protein Coding	57	GC11M102942	1.667369843
DRD2	Protein Coding	56	GC11M113409	1.667369843
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IQGAP1	Protein Coding	50	GC15P090388	1.657212853
MIR378A	RNA Gene	24	GC05P149732	1.657212853
MIR10A	RNA Gene	24	GC17M048579	1.65584898
MIR138-1	RNA Gene	23	GC03P044115	1.65584898
HDAC1	Protein Coding	57	GC01P032292	1.655278444
CD9	Protein Coding	50	GC12P028152	1.654900312
HLA-G	Protein Coding	50	GC06P104048	1.654900312
EIF4EBP1	Protein Coding	53	GC08P038813	1.654738545
EMSLR	RNA Gene	16	GC07P102243	1.649264097
MIR141	RNA Gene	24	GC12P028325	1.649138689
MIR199A1	RNA Gene	22	GC19M010817	1.647481322
NAMPT	Protein Coding	54	GC07M106248	1.645495892
IKBKE	Protein Coding	51	GC01P206470	1.645495892
PRKCG	Protein Coding	58	GC19P053879	1.644259095
FEZF1-AS1	RNA Gene	20	GC07P122303	1.643781662
MIR19A	RNA Gene	22	GC13P091617	1.641615868
DLGAP1-AS1	RNA Gene	18	GC18P003597	1.641615868
CLIC1	Protein Coding	48	GC06M080934	1.640654206
CSF1	Protein Coding	51	GC01P109911	1.639076948
IGF2BP3	Protein Coding	48	GC07M023449	1.639076948
PPARA	Protein Coding	51	GC22P046150	1.631280422
MIR215	RNA Gene	22	GC01M220117	1.63024807
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USP7	Protein Coding	56	GC16M008892	1.626719594
H3C12	Protein Coding	41	GC06M081761	1.625007153
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H3C8	Protein Coding	40	GC06M081765	1.625007153
H3C7	Protein Coding	39	GC06M081763	1.625007153
TERC	RNA Gene	31	GC03M169765	1.623578668
PML	Protein Coding	53	GC15P073994	1.621733427
RUNX1	Protein Coding	56	GC21M034787	1.621215105
DNM1L	Protein Coding	55	GC12P032679	1.621215105
SHC1	Protein Coding	50	GC01M154962	1.617420197
YY1	Protein Coding	55	GC14P100238	1.617112398
MIR9-3	RNA Gene	21	GC15P089368	1.616456509
PDIA6	Protein Coding	45	GC02M010784	1.614761233
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BMP6	Protein Coding	52	GC06P007726	1.611827612
RTEL1-TNFRSF6B	RNA Gene	21	GC20P063657	1.611277103
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CDH5	Protein Coding	53	GC16P066366	1.609333992
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LINC00673	RNA Gene	17	GC17M072290	1.603460908
NTRK2	Protein Coding	60	GC09P084668	1.602512224
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LEF1-AS1	RNA Gene	22	GC04P108167	1.601686358
SNHG14	RNA Gene	20	GC15P053113	1.600865483
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FOS	Protein Coding	58	GC14P075278	1.597595215
EDN1	Protein Coding	56	GC06P012236	1.597075462
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ENPP2	Protein Coding	52	GC08M119556	1.59449935
FBXO11	Protein Coding	49	GC02M047789	1.590876102
RECQL4	Protein Coding	48	GC08M146085	1.590876102
SEMA3A	Protein Coding	53	GC07M083955	1.589535594
PFKP	Protein Coding	52	GC10P003066	1.589535594
STOML3	Protein Coding	41	GC13M038965	1.588548303
LHFPL6	Protein Coding	38	GC13M039209	1.588548303
STAT6	Protein Coding	57	GC12M057095	1.586017609
TYMP	Protein Coding	54	GC22M050525	1.586017609
HLA-C	Protein Coding	50	GC06M080880	1.584401131
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STAT2	Protein Coding	55	GC12M056341	1.584146261
HK2	Protein Coding	53	GC02P074833	1.584146261
CUL2	Protein Coding	50	GC10M035046	1.584146261
TGFBI	Protein Coding	53	GC05P136027	1.583485007
IDO1	Protein Coding	53	GC08P039891	1.580094814

CPT1A	Protein Coding	54	GC11M068754	1.57463944
RBBP4	Protein Coding	51	GC01P032651	1.57463944
PAK1	Protein Coding	57	GC11M109658	1.573455572
RPS6	Protein Coding	50	GC09M019375	1.573455572
SLC2A3	Protein Coding	54	GC12M007919	1.572366118
MIR29C	RNA Gene	21	GC01M207820	1.57126534
MIR224	RNA Gene	19	GC0XM151958	1.57126534
MIR186	RNA Gene	22	GC01M071067	1.568827033
EDNRB	Protein Coding	57	GC13M077895	1.567404509
MIR491	RNA Gene	22	GC09P020716	1.566516042
RARB	Protein Coding	56	GC03P024689	1.564464927
ARHGEF7	Protein Coding	49	GC13P111114	1.561630964
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YWHAB	Protein Coding	54	GC20P044885	1.557613969
TRIM28	Protein Coding	52	GC19P058544	1.557613969
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MIR299	RNA Gene	20	GC14P112728	1.557613969
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MIR522	RNA Gene	16	GC19P053751	1.557613969
MIR138-2	RNA Gene	22	GC16P057312	1.554970503
RFX4	Protein Coding	44	GC12P106583	1.554742336
SEC61G	Protein Coding	41	GC07M054752	1.554742336
SMO	Protein Coding	58	GC07P133426	1.55405724
BUB1B	Protein Coding	57	GC15P040161	1.55405724
CDH11	Protein Coding	53	GC16M064943	1.55405724
PRKQC	Protein Coding	55	GC10M006703	1.547748089
IL24	Protein Coding	48	GC01P206897	1.546732426
EBF3	Protein Coding	46	GC10M129835	1.546135545
HNF1A-AS1	RNA Gene	22	GC12M122829	1.54468751
MIR770	RNA Gene	21	GC14P112767	1.54468751
ADARB1	Protein Coding	50	GC21P045073	1.543987036
IGFBP1	Protein Coding	50	GC07P048599	1.543380737
MIR219A1	RNA Gene	24	GC06P033207	1.543380737
KPNA2	Protein Coding	52	GC17P068035	1.542419195
ID4	Protein Coding	46	GC06P019837	1.542419195
MIR196B	RNA Gene	24	GC07M027796	1.542419195
MAP2K2	Protein Coding	61	GC19M004090	1.537980676
PLCG2	Protein Coding	58	GC16P081773	1.537980676
ARAF	Protein Coding	53	GC0XP047921	1.537980676
MAP2K5	Protein Coding	51	GC15P132651	1.537980676
LPAR1	Protein Coding	53	GC09M110873	1.53733027

MIR4521	RNA Gene	17	GC17P013060	1.535319448
ASIC1	Protein Coding	52	GC12P050057	1.533994079
WIF1	Protein Coding	50	GC12M065050	1.532469988
AHSG	Protein Coding	51	GC03P186653	1.532205582
MIR144	RNA Gene	21	GC17M059917	1.532013059
PTPRB	Protein Coding	52	GC12M070516	1.531728506
H2AX	Protein Coding	50	GC11M119408	1.531728506
MIR532	RNA Gene	19	GC0XP052213	1.530488849
CHRM2	Protein Coding	54	GC07P136868	1.528484583
CTSS	Protein Coding	52	GC01M150730	1.528484583
ATF3	Protein Coding	51	GC01P212565	1.528484583
SMURF1	Protein Coding	51	GC07M099027	1.528484583
CD70	Protein Coding	50	GC19M009494	1.528484583
FSCN1	Protein Coding	50	GC07P005592	1.528484583
LGR5	Protein Coding	50	GC12P071439	1.528484583
MIR29B1	RNA Gene	24	GC07M130877	1.528484583
DLEU7-AS1	RNA Gene	20	GC13P050287	1.524481058
MMP7	Protein Coding	54	GC11M109974	1.521249771
MEG8	RNA Gene	23	GC14P112720	1.518877268
ADAM12	Protein Coding	52	GC10M126012	1.518221617
SEC61G-DT	RNA Gene	16	GC07P054761	1.514766097
NHERF1	Protein Coding	52	GC17P079267	1.512823105
CLDN5	Protein Coding	46	GC22M019523	1.512823105
MIR196A2	RNA Gene	25	GC12P055689	1.512823105
CARMN	RNA Gene	22	GC05P149397	1.512823105
LINC00665	RNA Gene	19	GC19M080864	1.512054205
MSH3	Protein Coding	50	GC05P080654	1.511558175
GPI	Protein Coding	54	GC19P034359	1.509713292
MIR135A1	RNA Gene	22	GC03M052603	1.509713292
MIR135B	RNA Gene	24	GC01M205448	1.505225897
DAPK1	Protein Coding	56	GC09P087497	1.504864693
F2RL1	Protein Coding	50	GC05P076818	1.504864693
STMN3	Protein Coding	42	GC20M063639	1.499240041
DYRK1A	Protein Coding	57	GC21P037365	1.497832298
KLRK1	Protein Coding	47	GC12M024904	1.497832298
MIR199B	RNA Gene	22	GC09M128244	1.496528149
ZBTB18	Protein Coding	48	GC01P244048	1.496264338
MIR518B	RNA Gene	20	GC19P083874	1.496264338
BACH1	Protein Coding	48	GC21P029194	1.492390275
LACTB	Protein Coding	44	GC15P133882	1.492390275
CDK5	Protein Coding	60	GC07M151053	1.492267013
HDAC6	Protein Coding	60	GC0XP048801	1.492267013
ARF4	Protein Coding	48	GC03M057572	1.492267013

CREB1	Protein Coding	57	GC02P207529	1.491010547
ADAMTS4	Protein Coding	50	GC01M161184	1.491010547
MIR487B	RNA Gene	21	GC14P112752	1.490992785
EIF2AK2	Protein Coding	57	GC02M037099	1.489203215
BMP4	Protein Coding	56	GC14M053949	1.489203215
SIRT1	Protein Coding	56	GC10P067884	1.489203215
MATN1-AS1	RNA Gene	17	GC01P030718	1.487121344
MRE11	Protein Coding	54	GC11M109894	1.487108111
XPA	Protein Coding	52	GC09M097654	1.487108111
DKK3	Protein Coding	48	GC11M011962	1.485573769
PPP1R13L	Protein Coding	48	GC19M045379	1.485573769
S100A8	Protein Coding	49	GC01M156024	1.485249996
PDCD10	Protein Coding	48	GC03M167683	1.485249996
ADGRE5	Protein Coding	50	GC19P082732	1.484942198
STYK1	Protein Coding	47	GC12M024913	1.480417252
MIR199A2	RNA Gene	24	GC01M172235	1.479969501
DICER1	Protein Coding	55	GC14M095086	1.479565978
TYMS	Protein Coding	57	GC18P000657	1.478634119
CKB	Protein Coding	51	GC14M103519	1.478634119
MIR146A	RNA Gene	25	GC05P160485	1.478634119
PRKCE	Protein Coding	55	GC02P045651	1.478033781
EZR	Protein Coding	53	GC06M158765	1.478033781
ID2	Protein Coding	51	GC02P008678	1.478033781
FUS	Protein Coding	51	GC16P031180	1.47609663
TCF4	Protein Coding	54	GC18M055222	1.476053238
HSPA4	Protein Coding	49	GC05P133062	1.474444866
MARCKS	Protein Coding	46	GC06P113857	1.474444866
ZEB2	Protein Coding	54	GC02M144384	1.472644567
XRCC3	Protein Coding	49	GC14M103697	1.472644567
STAU1	Protein Coding	44	GC20M049113	1.472644567
REEP5	Protein Coding	46	GC05M112876	1.471582055
HOXB-AS1	RNA Gene	19	GC17P048543	1.469871163
PWAR6	RNA Gene	14	GC15P025031	1.469871163
ECE1	Protein Coding	56	GC01M021217	1.468861699
ETS1	Protein Coding	54	GC11M128458	1.466891527
AHR	Protein Coding	53	GC07P016916	1.463137627
AQP1	Protein Coding	53	GC07P030911	1.463137627
NCL	Protein Coding	50	GC02M231453	1.463137627
NFIA	Protein Coding	50	GC01P060865	1.463137627
ACACB	Protein Coding	53	GC12P109116	1.46171546
ECHS1	Protein Coding	52	GC10M133362	1.46171546
HARS1	Protein Coding	51	GC05M140673	1.46171546
EIF3E	Protein Coding	46	GC08M108163	1.46171546

RAB8A	Protein Coding	46	GC19P016111	1.46171546
CARHSP1	Protein Coding	44	GC16M008852	1.46171546
ITPR1	Protein Coding	55	GC03P004486	1.460527182
GRM3	Protein Coding	52	GC07P086643	1.460413456
PPP1R9B	Protein Coding	48	GC17M050133	1.459763646
EIF4A1	Protein Coding	53	GC17P007572	1.459692717
BUB1	Protein Coding	56	GC02M110637	1.45732522
NTRK1	Protein Coding	56	GC01P156815	1.45732522
LYN	Protein Coding	55	GC08P055879	1.45732522
ADAMTSL1	Protein Coding	49	GC09P017906	1.45732522
MIR135A2	RNA Gene	20	GC12P097563	1.45732522
HOXB-AS3	RNA Gene	23	GC17P048549	1.456735373
COL18A1	Protein Coding	53	GC21P045405	1.452061176
TTN-AS1	RNA Gene	19	GC02P178521	1.448456883
AR	Protein Coding	58	GC0XP067544	1.447476149
CAT	Protein Coding	58	GC11P034460	1.447476149
SOAT1	Protein Coding	50	GC01P179262	1.447476149
MTR	Protein Coding	54	GC01P236795	1.446112156
SETDB1	Protein Coding	50	GC01P150926	1.446112156
RASSF1	Protein Coding	49	GC03M050329	1.446112156
MIR3189	RNA Gene	16	GC19P018386	1.446112156
GRIA1	Protein Coding	56	GC05P153467	1.445444226
PXN	Protein Coding	52	GC12M120210	1.445444226
MVP	Protein Coding	47	GC16P047695	1.445444226
PARP4	Protein Coding	50	GC13M024420	1.443876266
MIR16-1	RNA Gene	22	GC13M050048	1.443876266
MIR4443	RNA Gene	13	GC03P051522	1.443876266
ENSG00000274430	RNA Gene	8	GC0XP073944	1.443876266
ENSG00000276784	RNA Gene	8	GC0XP074046	1.443876266
SFRP2	Protein Coding	46	GC04M153780	1.44237709
EPHB2	Protein Coding	59	GC01P022710	1.441193938
SLC7A5	Protein Coding	51	GC16M087830	1.441193938
PLXNB2	Protein Coding	45	GC22M050274	1.441193938
CD47	Protein Coding	51	GC03M108043	1.439095259
CRK	Protein Coding	51	GC17M001420	1.439095259
SLC37A4	Protein Coding	49	GC11M119394	1.439095259
MIR205	RNA Gene	22	GC01P209432	1.439095259
MIR1224	RNA Gene	21	GC03P184241	1.439095259
KCNH2	Protein Coding	57	GC07M150944	1.437265396
HDAC7	Protein Coding	54	GC12M047782	1.433185697
CDK7	Protein Coding	52	GC05P069484	1.433185697
DDIT4	Protein Coding	48	GC10P072273	1.433185697
HOXA10	Protein Coding	47	GC07M027812	1.433185697

MELK	Protein Coding	52	GC09P036572	1.432327271
CXCR1	Protein Coding	50	GC02M218162	1.431879044
NFIB	Protein Coding	50	GC09M014077	1.431879044
PTBP1	Protein Coding	49	GC19P000797	1.431879044
PTPA	Protein Coding	49	GC09P130118	1.431879044
PA2G4	Protein Coding	48	GC12P058096	1.431879044
BUB3	Protein Coding	54	GC10P123154	1.430808544
HPRT1	Protein Coding	55	GC0XP134460	1.430573344
SLC22A5	Protein Coding	53	GC05P132369	1.430573344
KLHDC8A	Protein Coding	40	GC01M205305	1.429387331
BSG	Protein Coding	51	GC19P000571	1.428624392
GLI2	Protein Coding	56	GC02P120735	1.428519487
MIR183	RNA Gene	21	GC07M129861	1.426246166
WNT2	Protein Coding	51	GC07M117326	1.421795487
IL12RB1	Protein Coding	52	GC19M018058	1.420511246
RYK	Protein Coding	50	GC03M134065	1.420511246
VAV3	Protein Coding	49	GC01M107571	1.420511246
SOX3	Protein Coding	50	GC0XM140502	1.419851899
CLEC5A	Protein Coding	40	GC07M141927	1.419851899
USP15	Protein Coding	52	GC12P062260	1.417940021
HDAC2	Protein Coding	59	GC06M113933	1.416982889
INPPL1	Protein Coding	55	GC11P072223	1.416982889
TRAF2	Protein Coding	52	GC09P136881	1.416982889
TRPM8	Protein Coding	51	GC02P233917	1.416312099
USP10	Protein Coding	50	GC16P084702	1.416312099
SKP2	Protein Coding	51	GC05P036151	1.415475368
HJURP	Protein Coding	44	GC02M233836	1.413287163
MIR504	RNA Gene	18	GC0XM138667	1.413287163
LHPP	Protein Coding	43	GC10P124461	1.411405325
APP	Protein Coding	58	GC21M025880	1.411136866
DHX36	Protein Coding	48	GC03M154272	1.408025384
IL2RA	Protein Coding	57	GC10M006010	1.407375574
TYR	Protein Coding	55	GC11P089177	1.407375574
PLA2G4A	Protein Coding	54	GC01P186798	1.407375574
MARK4	Protein Coding	50	GC19P045079	1.407375574
RMDN3	Protein Coding	41	GC15M040735	1.407375574
SNHG5	RNA Gene	24	GC06M085650	1.407375574
MIR92B	RNA Gene	21	GC01P155195	1.407375574
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MAOA	Protein Coding	56	GC0XP043654	1.401732445
MAP2	Protein Coding	50	GC02P209424	1.401732445
RALBP1	Protein Coding	51	GC18P009465	1.401321292

ABCC5	Protein Coding	50	GC03M183919	1.401321292
CCDC88A	Protein Coding	49	GC02M055287	1.401321292
UHRF1	Protein Coding	46	GC19P006178	1.401321292
CHI3L2	Protein Coding	45	GC01P111201	1.401321292
MIR342	RNA Gene	22	GC14P100109	1.401321292
IL15	Protein Coding	49	GC04P141636	1.399466872
CASC9	RNA Gene	18	GC08M075132	1.398293138
NPRL3	Protein Coding	45	GC16M000084	1.397656679
PURA	Protein Coding	52	GC05P147985	1.396840453
NORAD	RNA Gene	21	GC20M036369	1.395183325
OVCH1-AS1	RNA Gene	18	GC12P029389	1.395183325
MCM7	Protein Coding	53	GC07M100092	1.39434576
SOX4	Protein Coding	50	GC06P021593	1.39434576
RPS27A	Protein Coding	49	GC02P055231	1.39434576
KHDRBS1	Protein Coding	47	GC01P032013	1.39434576
SST	Protein Coding	47	GC03M187668	1.39434576
PTPN1	Protein Coding	57	GC20P050510	1.393724203
ROR1	Protein Coding	54	GC01P063774	1.393724203
CD151	Protein Coding	50	GC11P002897	1.393724203
TEP1	Protein Coding	47	GC14M020365	1.393724203
MIR154	RNA Gene	22	GC14P112726	1.393724203
LINCMD1	RNA Gene	20	GC06M052146	1.393724203
SNORD76	RNA Gene	14	GC01M174772	1.393724203
SMARCA5	Protein Coding	49	GC04P143513	1.392692208
KDM6B	Protein Coding	52	GC17P007834	1.390993834
WRN	Protein Coding	53	GC08P031033	1.390597105
CASP5	Protein Coding	50	GC11M110019	1.390597105
HOXB13	Protein Coding	49	GC17M061278	1.390597105
GALNT12	Protein Coding	46	GC09P098807	1.390597105
S100A9	Protein Coding	50	GC01P153357	1.390452027
NUSAP1	Protein Coding	41	GC15P053793	1.390452027
RPSA	Protein Coding	53	GC03P039406	1.389264107
NRIP1	Protein Coding	51	GC21M014961	1.389264107
EIF4E	Protein Coding	56	GC04M098879	1.386792421
SUZ12	Protein Coding	49	GC17P031937	1.386792421
GBP1	Protein Coding	47	GC01M089052	1.386707187
MIR454	RNA Gene	21	GC17M059137	1.386707187
ADAM17	Protein Coding	57	GC02M009488	1.384762645
MIR1227	RNA Gene	20	GC19M002234	1.384762645
IRAK1	Protein Coding	56	GC0XM154010	1.383906245
MAPKAPK3	Protein Coding	56	GC03P050611	1.383906245
DYRK2	Protein Coding	52	GC12P067558	1.383906245
PRKD3	Protein Coding	52	GC02M037251	1.383906245

NLK	Protein Coding	50	GC17P076287	1.383906245
INSRR	Protein Coding	49	GC01M156840	1.383906245
PDK2	Protein Coding	48	GC17P078613	1.383906245
GUCY2F	Protein Coding	45	GC0XM109372	1.383906245
CDC42BPG	Protein Coding	44	GC11M064823	1.383906245
TAF1L	Protein Coding	40	GC09M032619	1.383906245
STKLD1	Protein Coding	36	GC09P133376	1.383906245
LOC283731	RNA Gene	17	GC15M133373	1.383302331
MIRLET7A3	RNA Gene	22	GC22P046112	1.381354332
SFN	Protein Coding	53	GC01P029478	1.380730629
FZD4	Protein Coding	56	GC11M086945	1.379542351
PLCB4	Protein Coding	53	GC20P009067	1.379542351
CYP19A1	Protein Coding	56	GC15M051208	1.379490972
RRM2	Protein Coding	55	GC02P010124	1.379490972
OSMR	Protein Coding	52	GC05P038845	1.379490972
PODXL	Protein Coding	50	GC07M131500	1.379490972
CBX3	Protein Coding	49	GC07P026201	1.379490972
FSTL1	Protein Coding	48	GC03M120392	1.379490972
VEGFD	Protein Coding	47	GC0XM015345	1.379490972
MIR99A	RNA Gene	24	GC21P016539	1.379490972
MIR1-1	RNA Gene	22	GC20P063783	1.379490972
MIR1-2	RNA Gene	19	GC18M030228	1.379490972
DOCK1	Protein Coding	52	GC10P126905	1.377451658
ADARB2	Protein Coding	47	GC10M001246	1.377451658
NOS1	Protein Coding	56	GC12M117208	1.375682592
SERPINB2	Protein Coding	50	GC18P063871	1.373748302
AIM2	Protein Coding	48	GC01M159062	1.373748302
HNRNPA2B1	Protein Coding	53	GC07M026174	1.372603059
S1PR3	Protein Coding	52	GC09P089868	1.371043801
MIR100	RNA Gene	24	GC11M122152	1.371043801
MIR214	RNA Gene	25	GC01M172234	1.369407415
PAX5	Protein Coding	53	GC09M036941	1.368666649
CDC25C	Protein Coding	54	GC05M138285	1.367132425
MALT1	Protein Coding	54	GC18P058671	1.367132425
SLC16A1	Protein Coding	54	GC01M113047	1.367132425
AGO2	Protein Coding	50	GC08M140522	1.367132425
TRAF4	Protein Coding	49	GC17P076353	1.367132425
CAPG	Protein Coding	48	GC02M085391	1.367132425
EMP3	Protein Coding	45	GC19P048321	1.367132425
AMOTL2	Protein Coding	44	GC03M134355	1.367132425
MIR603	RNA Gene	15	GC10P024275	1.367132425
IL2RB	Protein Coding	57	GC22M068173	1.364594817
MIR503	RNA Gene	22	GC0XM134727	1.364594817

MIR101-2	RNA Gene	19	GC09P004867	1.364594817
PCAT2	RNA Gene	18	GC08M127072	1.364594817
CASC19	RNA Gene	17	GC08M133871	1.364594817
PRPF19	Protein Coding	45	GC11M060890	1.36390245
MIRLET7A2	RNA Gene	22	GC11M122146	1.36241293
B4GALT1	Protein Coding	53	GC09M033100	1.361409545
H6PD	Protein Coding	50	GC01P009234	1.361409545
HSPA9	Protein Coding	54	GC05M138554	1.36000526
ACTB	Protein Coding	56	GC07M005527	1.358748794
BID	Protein Coding	53	GC22M017734	1.35836935
ANG	Protein Coding	52	GC14P038248	1.353312016
FOSL1	Protein Coding	52	GC11M109271	1.353312016
CYP2B6	Protein Coding	52	GC19P040991	1.353057384
TTC4	Protein Coding	42	GC01P054715	1.353057384
P4HB	Protein Coding	56	GC17M081843	1.350965142
PTPRT	Protein Coding	50	GC20M042072	1.350965142
PRRT2	Protein Coding	48	GC16P029811	1.349547863
PABPN1	Protein Coding	52	GC14P039533	1.34893322
TCN2	Protein Coding	49	GC22P052194	1.34893322
GOLPH3	Protein Coding	45	GC05M032124	1.34893322
PI3	Protein Coding	44	GC20P045174	1.34893322
GLUD1	Protein Coding	57	GC10M087050	1.348191023
ANXA1	Protein Coding	53	GC09P073151	1.348191023
DPP3	Protein Coding	48	GC11P072994	1.348191023
SEMA3B	Protein Coding	46	GC03P050267	1.348191023
CRP	Protein Coding	52	GC01M159732	1.347820163
DVL2	Protein Coding	51	GC17M007225	1.345883489
LGALS3BP	Protein Coding	48	GC17M078971	1.345883489
TEK	Protein Coding	58	GC09P027109	1.345772147
SEMA3C	Protein Coding	50	GC07M080742	1.345772147
ING4	Protein Coding	44	GC12M006650	1.345772147
CXCL14	Protein Coding	43	GC05M135617	1.345233679
MIR409	RNA Gene	21	GC14P112746	1.345233679
CHD3	Protein Coding	50	GC17P013038	1.342350602
PGK1	Protein Coding	56	GC0XP078062	1.340382814
GATA3	Protein Coding	56	GC10P008045	1.338063955
MAGED4B	Protein Coding	36	GC0XM052061	1.336600065
SIAH1	Protein Coding	53	GC16M048357	1.336157322
ABCA1	Protein Coding	55	GC09M104781	1.332374573
YWHAG	Protein Coding	55	GC07M077900	1.332374573
DUSP6	Protein Coding	54	GC12M089347	1.332374573
FOLH1	Protein Coding	54	GC11M108903	1.332374573
VIP	Protein Coding	51	GC06P152750	1.332374573

PTX3	Protein Coding	49	GC03P157436	1.332374573
TNFRSF1A	Protein Coding	57	GC12M006328	1.330875993
HSF1	Protein Coding	54	GC08P144291	1.330875993
RTN4	Protein Coding	52	GC02M054934	1.330875993
NEDD4	Protein Coding	54	GC15M055826	1.327593446
CFL1	Protein Coding	53	GC11M065823	1.327593446
DDB1	Protein Coding	53	GC11M109043	1.327593446
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RARA	Protein Coding	57	GC17P040309	1.327501893
HSPD1	Protein Coding	56	GC02M197486	1.327501893
NR1H2	Protein Coding	53	GC19P050329	1.327501893
PPIB	Protein Coding	57	GC15M064155	1.327220678
GLS	Protein Coding	56	GC02P190880	1.325063586
MIR124-1HG	RNA Gene	21	GC08M010170	1.324565291
POLR3B	Protein Coding	51	GC12P106357	1.319251299
ARF1	Protein Coding	52	GC01P228082	1.314744353
DFFB	Protein Coding	50	GC01P003857	1.314744353
EFNB2	Protein Coding	50	GC13M106489	1.314744353
DLG5	Protein Coding	46	GC10M077790	1.314744353
TENM1	Protein Coding	44	GC0XM124375	1.314744353
SDHB	Protein Coding	55	GC01M018664	1.314376473
PRKAA2	Protein Coding	57	GC01P056645	1.313850522
RBPJ	Protein Coding	54	GC04P026105	1.313850522
MIR302C	RNA Gene	22	GC04M112857	1.313850522
RPL26	Protein Coding	50	GC17M008377	1.311675787
ALOX12B	Protein Coding	49	GC17M013546	1.311675787
TCP1	Protein Coding	49	GC06M159778	1.311514378
FTL	Protein Coding	52	GC19P048965	1.307389259
ABCD3	Protein Coding	51	GC01P094385	1.305341244
ARHGDI1A	Protein Coding	53	GC17M081867	1.304810286
LAMC1	Protein Coding	50	GC01P183023	1.304810286
LARP7	Protein Coding	48	GC04P112638	1.304810286
RAI14	Protein Coding	44	GC05P034656	1.304810286
SEMA6B	Protein Coding	44	GC19M004542	1.304810286
H4C16	Protein Coding	43	GC12M025134	1.304810286
PTP4A3	Protein Coding	46	GC08P141391	1.302452922
MIR361	RNA Gene	19	GC0XM085903	1.302452922
UBE2R2-AS1	RNA Gene	17	GC09M034118	1.302317381
MIR615	RNA Gene	22	GC12P054033	1.301782131
PLAT	Protein Coding	56	GC08M042174	1.300924063
CCL20	Protein Coding	49	GC02P227846	1.300924063
EPHA5	Protein Coding	53	GC04M065319	1.29961729
PTPN2	Protein Coding	53	GC18M030182	1.29961729

AREG	Protein Coding	50	GC04P074445	1.29961729
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TH	Protein Coding	57	GC11M002163	1.295802951
LIMK1	Protein Coding	55	GC07P074082	1.295802951
ADORA2B	Protein Coding	54	GC17P074910	1.295802951
ITGA7	Protein Coding	54	GC12M055684	1.295802951
SUMO1	Protein Coding	53	GC02M202206	1.295802951
UBE2D3	Protein Coding	51	GC04M102794	1.295802951
MIR134	RNA Gene	21	GC14P112725	1.295802951
RASSF10	Protein Coding	37	GC11P012990	1.295372844
TIGAR	Protein Coding	45	GC12P028137	1.294340372
OLIG1	Protein Coding	43	GC21P033070	1.294340372
THBS1	Protein Coding	52	GC15P039581	1.292966723
DNAH2	Protein Coding	42	GC17P007717	1.289168835
EDNRA	Protein Coding	56	GC04P147480	1.288249612
ROBO1	Protein Coding	51	GC03M078597	1.288249612
PRADX	RNA Gene	15	GC11P004185	1.288249612
GNRHR	Protein Coding	54	GC04M067737	1.287681818
USP9X	Protein Coding	55	GC0XP041085	1.286791325
ARHGEF26-AS1	RNA Gene	17	GC03M154024	1.286791325
CD109	Protein Coding	46	GC06P104586	1.284721136
S100A6	Protein Coding	49	GC01M156049	1.283213615
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PPP2CA	Protein Coding	56	GC05M134194	1.281025529
CCL18	Protein Coding	42	GC17P036064	1.281025529
NFATC2	Protein Coding	52	GC20M051386	1.278950214
GNL3	Protein Coding	49	GC03P052681	1.278950214
SNRPB	Protein Coding	49	GC20M002461	1.278950214
CNOT1	Protein Coding	48	GC16M058519	1.278950214
LIN28A	Protein Coding	48	GC01P026410	1.278950214
RSRP1	Protein Coding	37	GC01M025242	1.278950214
IGFBP7	Protein Coding	53	GC04M057030	1.275205374
G6PC1	Protein Coding	51	GC17P079560	1.275205374
DOCK7	Protein Coding	49	GC01M062454	1.275205374
SH3GL2	Protein Coding	48	GC09P017569	1.275205374
CKAP5	Protein Coding	46	GC11M108864	1.275205374
SAA1	Protein Coding	45	GC11P018810	1.275205374
MIR335	RNA Gene	22	GC07P130496	1.275205374
MIR133A1	RNA Gene	19	GC18M030227	1.275205374
MIR153-1	RNA Gene	18	GC02M219294	1.275205374
CREB3	Protein Coding	44	GC09P052013	1.275113821
NOB1	Protein Coding	44	GC16M071755	1.275113821
MIR22	RNA Gene	24	GC17M001713	1.275113821

SNHG16	RNA Gene	22	GC17P076544	1.275113821
OBI1-AS1	RNA Gene	20	GC13P077920	1.275113821
MIR663A	RNA Gene	17	GC20M026208	1.275113821
PLD1	Protein Coding	56	GC03M171600	1.27445817
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MIR500A	RNA Gene	18	GC0XP050008	1.27445817
IL1RN	Protein Coding	57	GC02P125995	1.270232677
SRSF3	Protein Coding	46	GC06P104237	1.270232677
NCAM1	Protein Coding	55	GC11P112961	1.269059658
SCN1A	Protein Coding	55	GC02M165989	1.264898539
B4GALT3	Protein Coding	46	GC01M161171	1.264898539
LGALS2	Protein Coding	46	GC22M037570	1.264898539
MIR33B	RNA Gene	22	GC17M017813	1.264177918
ERCC2	Protein Coding	54	GC19M045349	1.264135361
AGTR1	Protein Coding	58	GC03P148697	1.262921691
CALCRL	Protein Coding	52	GC02M187341	1.262921691
MIR449B	RNA Gene	20	GC05M055172	1.262921691
ITGB3	Protein Coding	59	GC17P078453	1.262776017
MMP12	Protein Coding	52	GC11M102862	1.26146245
CYP4A11	Protein Coding	49	GC01M046929	1.256546378
CYP4F3	Protein Coding	48	GC19P015640	1.256546378
CYP4A22	Protein Coding	42	GC01P047142	1.256546378
AP1AR	Protein Coding	40	GC04P112231	1.256546378
PAK4	Protein Coding	56	GC19P039125	1.252602458
WDR5	Protein Coding	52	GC09P134135	1.252602458
MIR16-2	RNA Gene	21	GC03P160418	1.252602458
EEF2	Protein Coding	55	GC19M003976	1.252500892
HMGCR	Protein Coding	53	GC05P075336	1.252500892
NONO	Protein Coding	52	GC0XP071255	1.252500892
ITCH	Protein Coding	54	GC20P034363	1.252422214
PDIA3	Protein Coding	50	GC15P043746	1.252422214
CD276	Protein Coding	48	GC15P073683	1.252422214
ITGB8	Protein Coding	48	GC07P020329	1.252422214
USP3	Protein Coding	46	GC15P063504	1.252422214
MACC1	Protein Coding	42	GC07M020140	1.252422214
MIR122	RNA Gene	24	GC18P058451	1.252422214
MIR433	RNA Gene	24	GC14P112020	1.252422214
HAS2-AS1	RNA Gene	22	GC08P121639	1.252422214
MIR423	RNA Gene	21	GC17P030117	1.252422214
FAS-AS1	RNA Gene	17	GC10M088991	1.252422214
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LRG1	Protein Coding	46	GC19M009341	1.251040578

TRG-AS1	RNA Gene	15	GC07P038308	1.251040578
IDE	Protein Coding	55	GC10M092451	1.249372482
NME1	Protein Coding	52	GC17P078654	1.249372482
GSDME	Protein Coding	45	GC07M024699	1.249372482
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IL1RL1	Protein Coding	48	GC02P102294	1.241486549
ASPM	Protein Coding	44	GC01M197084	1.239358544
ITGA2	Protein Coding	53	GC05P052989	1.239038587
PSMA3	Protein Coding	52	GC14P058244	1.239038587
DLX2	Protein Coding	45	GC02M172099	1.239038587
ELOB	Protein Coding	45	GC16M010549	1.239038587
USP28	Protein Coding	45	GC11M113797	1.239038587
ALCAM	Protein Coding	49	GC03P105366	1.238782167
NR2E1	Protein Coding	48	GC06P108166	1.238782167
MIR483	RNA Gene	22	GC11M008045	1.235058546
NPM1	Protein Coding	57	GC05P171387	1.234870672
MAPK9	Protein Coding	55	GC05M180273	1.234870672
VCAM1	Protein Coding	53	GC01P100719	1.234870672
TRIM24	Protein Coding	52	GC07P138460	1.234870672
PPP1R12A	Protein Coding	51	GC12M079773	1.234870672
TRIM26	Protein Coding	44	GC06M030184	1.234870672
GSR	Protein Coding	56	GC08M030678	1.234570503
CANX	Protein Coding	52	GC05P179678	1.233661056
SKP1	Protein Coding	50	GC05M134148	1.233661056
RMST	RNA Gene	25	GC12P097431	1.233661056
PANTR1	RNA Gene	21	GC02M104764	1.233661056
NUMB	Protein Coding	52	GC14M073275	1.232333183
SART3	Protein Coding	43	GC12M108522	1.232333183
LUC7L2	Protein Coding	43	GC07P139344	1.228271008
PHGDH	Protein Coding	57	GC01P119660	1.226562262
CYLD	Protein Coding	54	GC16P050742	1.226562262
PLK4	Protein Coding	54	GC04P127880	1.226562262
EPHA7	Protein Coding	53	GC06M093240	1.226562262
PYCARD	Protein Coding	49	GC16M031201	1.226562262
ATAD3A	Protein Coding	48	GC01P005276	1.226562262
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YTHDF2	Protein Coding	44	GC01P029588	1.226562262
LSM14A	Protein Coding	42	GC19P034172	1.226562262
SERBP1	Protein Coding	42	GC01M067407	1.226562262
PLK5	Protein Coding	34	GC19P005650	1.226562262

MIR429	RNA Gene	23	GC01P005252	1.226562262
MIR626	RNA Gene	18	GC15P041691	1.226562262
MIR448	RNA Gene	14	GC0XP114823	1.226562262
ACLY	Protein Coding	53	GC17M041866	1.226107717
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PSMB8-AS1	RNA Gene	15	GC06P104130	1.226107717
FZD10	Protein Coding	52	GC12P130162	1.224003673
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LIG4	Protein Coding	54	GC13M108207	1.218703389
VDAC1	Protein Coding	52	GC05M133975	1.218703389
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ROCK2	Protein Coding	53	GC02M011377	1.216671586
ATF1	Protein Coding	52	GC12P050763	1.216671586
PLOD2	Protein Coding	52	GC03M146035	1.216671586
STIP1	Protein Coding	52	GC11P064575	1.216671586
CBX5	Protein Coding	49	GC12M054230	1.216671586
XRN2	Protein Coding	49	GC20P021303	1.216671586
TES	Protein Coding	46	GC07P116210	1.216671586
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CTSK	Protein Coding	57	GC01M155887	1.213063478
PIBF1	Protein Coding	48	GC13P072782	1.213063478
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PSEN1	Protein Coding	59	GC14P073136	1.212971926
ENG	Protein Coding	55	GC09M127815	1.212971926
LEP	Protein Coding	53	GC07P128241	1.212971926
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PHLPP2	Protein Coding	47	GC16M071637	1.212971926
LLGL1	Protein Coding	46	GC17P018225	1.212971926
MIR339	RNA Gene	23	GC07M001022	1.212971926
MIR411	RNA Gene	18	GC14P112748	1.212971926
STK4	Protein Coding	56	GC20P044966	1.208363771
MAP3K12	Protein Coding	52	GC12M053479	1.208363771
NTF3	Protein Coding	51	GC12P028147	1.208363771
EMP2	Protein Coding	50	GC16M013098	1.208363771
MARCO	Protein Coding	48	GC02P118942	1.208363771
DYRK3	Protein Coding	46	GC01P206636	1.208363771
LZTS2	Protein Coding	44	GC10P100996	1.208363771
DPYSL4	Protein Coding	42	GC10P132185	1.208363771
C4A	Protein Coding	50	GC06P104121	1.205806494
CTSD	Protein Coding	60	GC11M001752	1.201289892
ABCC2	Protein Coding	54	GC10P099782	1.20011282

FEN1	Protein Coding	53	GC11P061793	1.20011282
RTN4R	Protein Coding	52	GC22M020241	1.20011282
CDH13	Protein Coding	51	GC16P082626	1.20011282
DFFA	Protein Coding	51	GC01M010456	1.20011282
RPS15A	Protein Coding	50	GC16M018781	1.20011282
TUBA1B	Protein Coding	50	GC12M049127	1.20011282
CX3CR1	Protein Coding	49	GC03M039279	1.20011282
NTS	Protein Coding	48	GC12P085876	1.20011282
DAP3	Protein Coding	47	GC01P155884	1.20011282
SHC3	Protein Coding	46	GC09M089005	1.20011282
BCCIP	Protein Coding	42	GC10P125823	1.20011282
RMRP	RNA Gene	26	GC09M035655	1.20011282
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HLA-DRB1	Protein Coding	54	GC06M080969	1.199320555
CD34	Protein Coding	52	GC01M207880	1.199320555
TACSTD2	Protein Coding	52	GC01M058575	1.199320555
NTN4	Protein Coding	46	GC12M095657	1.199320555
MIR142	RNA Gene	24	GC17M058331	1.199320555
MIR622	RNA Gene	16	GC13P090231	1.199320555
PLP2	Protein Coding	44	GC0XP049171	1.195887446
U2AF1	Protein Coding	49	GC21M043092	1.195082307
PPP1CA	Protein Coding	53	GC11M109346	1.190280318
IL1RAPL2	Protein Coding	46	GC0XP104566	1.189247847
NTRK3	Protein Coding	60	GC15M087859	1.185087442
PTCH1	Protein Coding	58	GC09M095442	1.185087442
TNFRSF1B	Protein Coding	56	GC01P012401	1.185087442
EPHA1	Protein Coding	54	GC07M143390	1.185087442
MAP3K2	Protein Coding	52	GC02M127298	1.185087442
NCOR1	Protein Coding	50	GC17M016029	1.185087442
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RRAS2	Protein Coding	54	GC11M014299	1.184027553
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VWF	Protein Coding	54	GC12M006031	1.182482719
COL6A1	Protein Coding	52	GC21P045981	1.182482719
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KPNB1	Protein Coding	50	GC17P047649	1.182482719
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TRPM7	Protein Coding	50	GC15M050552	1.182482719
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STC1	Protein Coding	47	GC08M023841	1.182482719
PCMT1	Protein Coding	46	GC06P149749	1.182482719
SMAD5-AS1	RNA Gene	25	GC05M136129	1.182482719
MIR34B	RNA Gene	24	GC11P112123	1.182482719
MIRLET7G	RNA Gene	22	GC03M052268	1.182482719
MIR190B	RNA Gene	20	GC01M154193	1.182482719
CNR2	Protein Coding	52	GC01M023870	1.180945277
DKK1	Protein Coding	51	GC10P052314	1.180945277
YEATS4	Protein Coding	45	GC12P069359	1.180945277
EEF2K	Protein Coding	53	GC16P046646	1.173405409
TXN	Protein Coding	52	GC09M110243	1.172548652
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HPX	Protein Coding	48	GC11M008389	1.172548652
SSRP1	Protein Coding	47	GC11M108936	1.172548652
IL6R	Protein Coding	57	GC01P154405	1.170191288
PGD	Protein Coding	54	GC01P010398	1.170191288
CUX1	Protein Coding	52	GC07P101815	1.170191288
CAV2	Protein Coding	49	GC07P116287	1.170191288
FMOD	Protein Coding	49	GC01M203340	1.170191288
SPINT2	Protein Coding	49	GC19P038244	1.170191288
STC2	Protein Coding	48	GC05M173314	1.170191288
AGK	Protein Coding	47	GC07P141551	1.170191288
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ALKBH5	Protein Coding	40	GC17P018183	1.170191288
CEP15	Protein Coding	38	GC03P062304	1.170191288
MIR424	RNA Gene	21	GC0XM134728	1.170191288
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PIM1	Protein Coding	56	GC06P104249	1.168387651
PI4KA	Protein Coding	55	GC22M020707	1.168387651
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HOXA1	Protein Coding	49	GC07M027092	1.168387651
KRT13	Protein Coding	49	GC17M041500	1.168387651
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CBX7	Protein Coding	43	GC22M068194	1.168387651
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SLC35E3	Protein Coding	39	GC12P068746	1.168387651
TPM2	Protein Coding	53	GC09M035672	1.164420366
PLOD1	Protein Coding	52	GC01P011934	1.164420366
CCT2	Protein Coding	49	GC12P069585	1.164420366
PTBP2	Protein Coding	47	GC01P096721	1.164420366
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F2	Protein Coding	57	GC11P046851	1.163541317
CSNK1A1	Protein Coding	56	GC05M149492	1.163541317
ITGB4	Protein Coding	56	GC17P075721	1.163541317
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GATA6	Protein Coding	54	GC18P022169	1.154529691
LRP6	Protein Coding	54	GC12M024943	1.154529691
NEFL	Protein Coding	52	GC08M024950	1.154529691
PPIA	Protein Coding	52	GC07P044811	1.154529691
TNFSF13	Protein Coding	52	GC17P007558	1.154529691
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IGSF8	Protein Coding	46	GC01M160061	1.154529691
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CHAF1A	Protein Coding	44	GC19P004402	1.154529691
MIR9-1HG	RNA Gene	34	GC01M156474	1.154529691
SAMMSON	RNA Gene	20	GC03P069999	1.154529691
MIR198	RNA Gene	17	GC03M120395	1.154529691
LINC00324	RNA Gene	24	GC17M013553	1.154033065
LINC00115	RNA Gene	21	GC01M009815	1.152676225
TPT1-AS1	RNA Gene	20	GC13P045341	1.152676225
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ENSG00000238009	RNA Gene	10	GC01M000089	1.152676225
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CP	Protein Coding	55	GC03M149162	1.146688581
CHD4	Protein Coding	52	GC12M006570	1.146688581
G3BP1	Protein Coding	46	GC05P151771	1.146688581
PAXIP1-AS2	RNA Gene	16	GC07P154928	1.145122886
ATP1A1	Protein Coding	57	GC01P116372	1.14294374
TRAF6	Protein Coding	53	GC11M036467	1.14294374
BAZ1B	Protein Coding	49	GC07M073440	1.14294374
CNOT3	Protein Coding	49	GC19P083890	1.14294374
HNRNPC	Protein Coding	48	GC14M025239	1.14294374
TARBP2	Protein Coding	47	GC12P053499	1.14294374
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OGG1	Protein Coding	54	GC03P014579	1.142672777
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XRCC1	Protein Coding	51	GC19M043543	1.141483665
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IL15RA	Protein Coding	47	GC10M005943	1.010115862
EMP1	Protein Coding	42	GC12P013196	1.010115862
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ZGPAT	Protein Coding	44	GC20P063707	1.002124906
SLC2A4RG	Protein Coding	43	GC20P063739	1.002124906
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CAPN1	Protein Coding	57	GC11P072883	1.001483917
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DLST	Protein Coding	53	GC14P074881	1.001483917
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SLC25A13	Protein Coding	53	GC07M096120	1.001483917
SPTBN1	Protein Coding	53	GC02P054456	1.001483917
CCT5	Protein Coding	52	GC05P010236	1.001483917
CTSZ	Protein Coding	52	GC20M058995	1.001483917
DDOST	Protein Coding	52	GC01M020651	1.001483917
PSMB1	Protein Coding	52	GC06M170535	1.001483917
ECM1	Protein Coding	51	GC01P150508	1.001483917
FGF5	Protein Coding	51	GC04P080266	1.001483917
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STK26	Protein Coding	49	GC0XP132023	1.001483917

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FOXC2-AS1	RNA Gene	19	GC16M086566	1.001483917
MIR194-1	RNA Gene	19	GC01M220118	1.001483917
HMMR-AS1	RNA Gene	18	GC05M163482	1.001483917
MIR4516	RNA Gene	18	GC16P045948	1.001483917
PXN-AS1	RNA Gene	18	GC12P120194	1.001483917
ITGA6-AS1	RNA Gene	17	GC02M172495	1.001483917
ACTR3-AS1	RNA Gene	16	GC02M113839	1.001483917
LINC01736	RNA Gene	15	GC01P230113	1.001483917
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ZKSCAN7-AS1	RNA Gene	15	GC03M044558	1.001483917
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RN7SL1	RNA Gene	21	GC14P049546	0.999816954
MIR19B1	RNA Gene	20	GC13P091618	0.999816954
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RAB35	Protein Coding	46	GC12M120096	0.977033794
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MIR432	RNA Gene	21	GC14P112024	0.977033794
MIR885	RNA Gene	20	GC03M010649	0.977033794
MIR320D1	RNA Gene	16	GC13M040730	0.977033794
MIR320D2	RNA Gene	15	GC0XM140926	0.977033794
MIR646	RNA Gene	15	GC20P060308	0.977033794
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RINT1	Protein Coding	45	GC07P105532	0.97446692
CDK9	Protein Coding	53	GC09P130037	0.974321783
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PON1	Protein Coding	54	GC07M095297	0.972872794
POLR3F	Protein Coding	49	GC20P019089	0.972872794
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JAK1	Protein Coding	61	GC01M064833	0.970576942
CHUK	Protein Coding	57	GC10M100296	0.970576942
SLC12A2	Protein Coding	56	GC05P128083	0.970576942
TLK2	Protein Coding	52	GC17P062458	0.970576942
BAD	Protein Coding	50	GC11M109178	0.970576942
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KDM2A	Protein Coding	49	GC11P067119	0.965604186
DEK	Protein Coding	47	GC06M018224	0.965604186
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DAO	Protein Coding	52	GC12P108859	0.94527936
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HSP90B1	Protein Coding	54	GC12P103930	0.931735754
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PLG	Protein Coding	56	GC06P160702	0.929032564
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CCDC9B	Protein Coding	34	GC15M040442	0.920498967
IRX2-DT	RNA Gene	33	GC05P002751	0.920498967
MIR147B	RNA Gene	20	GC15P045433	0.920498967
MIR490	RNA Gene	20	GC07P136903	0.920498967
MIR519B	RNA Gene	20	GC19P053695	0.920498967
LGALS8-AS1	RNA Gene	18	GC01M236523	0.920498967
MIR519A1	RNA Gene	18	GC19P053752	0.920498967
MIR519C	RNA Gene	18	GC19P053686	0.920498967
MIR519A2	RNA Gene	16	GC19P053762	0.920498967
LINC01614	RNA Gene	15	GC02P215717	0.920498967
MILIP	RNA Gene	14	GC17P084405	0.920498967
MIR3666	RNA Gene	14	GC07P114653	0.920498967
PKD2	Protein Coding	55	GC04P088007	0.91683954
WEE1	Protein Coding	55	GC11P009573	0.91683954
DAAM1	Protein Coding	49	GC14P059188	0.91683954
FABP4	Protein Coding	49	GC08M081478	0.91683954
CEMIP	Protein Coding	44	GC15P080779	0.91683954
CST7	Protein Coding	44	GC20P024949	0.91683954
PSMA3-AS1	RNA Gene	17	GC14M058140	0.91683954
ATP2A2	Protein Coding	58	GC12P110280	0.908435047
ENPP1	Protein Coding	56	GC06P131808	0.908435047
GSK3A	Protein Coding	56	GC19M079626	0.908435047
HK1	Protein Coding	56	GC10P069269	0.908435047
MUC1	Protein Coding	55	GC01M155185	0.908435047
CAMK2G	Protein Coding	54	GC10M073812	0.908435047
KCNN4	Protein Coding	54	GC19M079674	0.908435047
SIRT3	Protein Coding	54	GC11M000215	0.908435047
CSNK2A2	Protein Coding	53	GC16M058157	0.908435047
ITGB5	Protein Coding	53	GC03M124761	0.908435047
MECP2	Protein Coding	53	GC0XM154021	0.908435047
ALOX5AP	Protein Coding	51	GC13P030713	0.908435047
MTA1	Protein Coding	49	GC14P105419	0.908435047

PABPC1	Protein Coding	49	GC08M100685	0.908435047
NEDD9	Protein Coding	48	GC06M011183	0.908435047
PIAS3	Protein Coding	48	GC01M145848	0.908435047
RAD18	Protein Coding	48	GC03M008775	0.908435047
BHLHE40	Protein Coding	47	GC03P004980	0.908435047
E2F7	Protein Coding	46	GC12M077021	0.908435047
KPNA4	Protein Coding	46	GC03M160494	0.908435047
CXCL16	Protein Coding	45	GC17M004733	0.908435047
ILF2	Protein Coding	45	GC01M153661	0.908435047
PDCD6	Protein Coding	45	GC05P000272	0.908435047
MRPS18B	Protein Coding	42	GC06P030617	0.908435047
SLTM	Protein Coding	41	GC15M058879	0.908435047
HOPX	Protein Coding	40	GC04M056647	0.908435047
CDC25B	Protein Coding	53	GC20P004921	0.903893232
ID3	Protein Coding	46	GC01M023557	0.903893232
UBTF	Protein Coding	50	GC17M044205	0.903670847
PRKRA	Protein Coding	49	GC02M178431	0.903670847
EGFR-AS1	RNA Gene	20	GC07M055179	0.903121054
TRPV4	Protein Coding	55	GC12M109783	0.901178002
GABRA1	Protein Coding	54	GC05P161847	0.901178002
DMD	Protein Coding	52	GC0XM031097	0.901178002
FPR2	Protein Coding	52	GC19P051752	0.901178002
NDST1	Protein Coding	52	GC05P150484	0.901178002
CD1D	Protein Coding	50	GC01P158178	0.901178002
ADGRE2	Protein Coding	49	GC19M015566	0.901178002
RIOK2	Protein Coding	48	GC05M097160	0.901178002
RIOK1	Protein Coding	46	GC06P007389	0.901178002
DCBLD2	Protein Coding	45	GC03M098795	0.901178002
SLC9A9	Protein Coding	45	GC03M143265	0.901178002
NKD1	Protein Coding	43	GC16P050548	0.901178002
SYNM	Protein Coding	42	GC15P099098	0.901178002
BCAR4	RNA Gene	20	GC16M013167	0.901178002
MIR577	RNA Gene	20	GC04P114656	0.901178002
PCAT6	RNA Gene	18	GC01P202810	0.901178002
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RET	Protein Coding	61	GC10P043402	0.898246229
GREM1	Protein Coding	50	GC15P053554	0.898246229
UBE2I	Protein Coding	54	GC16P021384	0.891258955
GNAI2	Protein Coding	53	GC03P050226	0.891258955
HAVCR2	Protein Coding	52	GC05M157063	0.891258955
RPS17	Protein Coding	50	GC15M082536	0.891258955
UGP2	Protein Coding	50	GC02P063840	0.891258955
MYO1C	Protein Coding	49	GC17M001464	0.891258955

RPL3	Protein Coding	49	GC22M068195	0.891258955
COPB1	Protein Coding	48	GC11M014436	0.891258955
DHX30	Protein Coding	48	GC03P047802	0.891258955
ATXN2L	Protein Coding	46	GC16P046939	0.891258955
RBM14	Protein Coding	46	GC11P073005	0.891258955
NOP58	Protein Coding	45	GC02P202265	0.891258955
ADA	Protein Coding	58	GC20M044620	0.885651886
SGK1	Protein Coding	56	GC06M134169	0.885651886
PPP2R1A	Protein Coding	55	GC19P083787	0.885651886
CD46	Protein Coding	54	GC01P207752	0.885651886
MAX	Protein Coding	54	GC14M065190	0.885651886
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NECTIN2	Protein Coding	51	GC19P083470	0.885651886
C1QBP	Protein Coding	50	GC17M005432	0.885651886
CCR1	Protein Coding	50	GC03M046218	0.885651886
RAP1B	Protein Coding	50	GC12P068610	0.885651886
SFPQ	Protein Coding	50	GC01M035176	0.885651886
AHCYL1	Protein Coding	49	GC01P109984	0.885651886
GAS1	Protein Coding	49	GC09M086944	0.885651886
MAP1LC3B	Protein Coding	48	GC16P087384	0.885651886
METTL3	Protein Coding	48	GC14M021498	0.885651886
BAZ1A	Protein Coding	47	GC14M034752	0.885651886
PHF6	Protein Coding	47	GC0XP134373	0.885651886
MBD2	Protein Coding	46	GC18M054151	0.885651886
BCAS3	Protein Coding	45	GC17P078824	0.885651886
SAP18	Protein Coding	45	GC13P021140	0.885651886
WNK2	Protein Coding	45	GC09P093184	0.885651886
RNF138	Protein Coding	44	GC18P032091	0.885651886
SAFB2	Protein Coding	44	GC19M009379	0.885651886
GLYR1	Protein Coding	43	GC16M010704	0.885651886
REEP4	Protein Coding	42	GC08M022138	0.885651886
LINC01194	RNA Gene	19	GC05P012530	0.885651886
GRIA2	Protein Coding	57	GC04P157204	0.884619296
PSMB8	Protein Coding	57	GC06M032840	0.884619296
HSP90AB1	Protein Coding	56	GC06P044246	0.884619296
ROR2	Protein Coding	56	GC09M103030	0.884619296
LOX	Protein Coding	54	GC05M122063	0.884619296
DAG1	Protein Coding	53	GC03P051590	0.884619296
GPX1	Protein Coding	52	GC03M052428	0.884619296
ARNT2	Protein Coding	50	GC15P080404	0.884619296
COL4A4	Protein Coding	50	GC02M226973	0.884619296
KDM4A	Protein Coding	50	GC01P043650	0.884619296
USF1	Protein Coding	50	GC01M161039	0.884619296

BNIP3L	Protein Coding	49	GC08P026383	0.884619296
THBS4	Protein Coding	49	GC05P079991	0.884619296
PCBP2	Protein Coding	48	GC12P053452	0.884619296
PUM2	Protein Coding	48	GC02M020383	0.884619296
SPAST	Protein Coding	48	GC02P032063	0.884619296
TMEM59	Protein Coding	47	GC01M054031	0.884619296
BTG1	Protein Coding	46	GC12M092140	0.884619296
PTPN18	Protein Coding	46	GC02P130356	0.884619296
RAB38	Protein Coding	46	GC11M109795	0.884619296
TP53I3	Protein Coding	46	GC02M024078	0.884619296
IP6K2	Protein Coding	45	GC03M048688	0.884619296
GBP3	Protein Coding	44	GC01M089006	0.884619296
ZHX1	Protein Coding	44	GC08M123248	0.884619296
UCN	Protein Coding	42	GC02M027308	0.884619296
PLAAT4	Protein Coding	39	GC11P063886	0.884619296
PRR13	Protein Coding	36	GC12P053473	0.884619296
HOXA-AS2	RNA Gene	21	GC07P027107	0.884619296
MIR877	RNA Gene	21	GC06P030584	0.884619296
HEIH	RNA Gene	18	GC05M182188	0.884619296
PITPNA-AS1	RNA Gene	17	GC17P001516	0.884619296
MIR3178	RNA Gene	16	GC16M002531	0.884619296
LOC111255645	Functional Element	3	GC08P023237	0.884619296
NPRL2	Protein Coding	47	GC03M052512	0.883072436
COL3A1	Protein Coding	54	GC02P188974	0.880522847
LAMA5	Protein Coding	50	GC20M062307	0.880522847
RCC2	Protein Coding	45	GC01M017406	0.880522847
RRBP1	Protein Coding	45	GC20M017613	0.880522847
FBLN7	Protein Coding	44	GC02P125979	0.880522847
MPPED2	Protein Coding	44	GC11M030406	0.880522847
ERCC6	Protein Coding	53	GC10M049454	0.877955914
PALB2	Protein Coding	51	GC16M023603	0.877955914
MSH5	Protein Coding	48	GC06P104113	0.877955914
LOC107303338	Functional Element	4	GC03P014608	0.877955914
BRIP1	Protein Coding	56	GC17M061679	0.875463068
RXFP1	Protein Coding	50	GC04P158315	0.873218417
FOLR2	Protein Coding	49	GC11P072216	0.871551514
LEPR	Protein Coding	57	GC01P065426	0.866989076
CSF3R	Protein Coding	54	GC01M036466	0.866989076
TGFBR3	Protein Coding	54	GC01M091680	0.866989076
EDN3	Protein Coding	53	GC20P059300	0.866989076
IL7R	Protein Coding	53	GC05P035852	0.866989076
NOTCH4	Protein Coding	53	GC06M080952	0.866989076
RIT1	Protein Coding	53	GC01M155897	0.866989076

DGKA	Protein Coding	52	GC12P055927	0.866989076
LAMA1	Protein Coding	52	GC18M006941	0.866989076
PAX8	Protein Coding	52	GC02M113215	0.866989076
S1PR5	Protein Coding	52	GC19M010512	0.866989076
TIAM1	Protein Coding	52	GC21M031118	0.866989076
MSX1	Protein Coding	51	GC04P004861	0.866989076
SMARCC2	Protein Coding	51	GC12M057337	0.866989076
GRB14	Protein Coding	50	GC02M164492	0.866989076
APLP2	Protein Coding	49	GC11P130069	0.866989076
CD63	Protein Coding	49	GC12M055725	0.866989076
IL9	Protein Coding	49	GC05M135891	0.866989076
LSP1	Protein Coding	48	GC11P002931	0.866989076
NUAK2	Protein Coding	48	GC01M205302	0.866989076
SPRY1	Protein Coding	48	GC04P123396	0.866989076
USP11	Protein Coding	48	GC0XP047232	0.866989076
MYCL	Protein Coding	45	GC01M039895	0.866989076
NCAPG2	Protein Coding	45	GC07M158631	0.866989076
TRIM44	Protein Coding	45	GC11P035663	0.866989076
COL16A1	Protein Coding	44	GC01M031653	0.866989076
CRISPLD2	Protein Coding	44	GC16P084819	0.866989076
GPR65	Protein Coding	44	GC14P088005	0.866989076
HECTD1	Protein Coding	44	GC14M031100	0.866989076
MAGEA3	Protein Coding	43	GC0XP152698	0.866989076
CREBRF	Protein Coding	41	GC05P173056	0.866989076
MAGEC1	Protein Coding	41	GC0XP141905	0.866989076
NREP	Protein Coding	41	GC05M111662	0.866989076
NUPR1	Protein Coding	41	GC16M028532	0.866989076
GK5	Protein Coding	40	GC03M142158	0.866989076
METRNL	Protein Coding	38	GC16P021376	0.866989076
DNAH10OS	RNA Gene	25	GC12M123927	0.866989076
MIR184	RNA Gene	25	GC15P079209	0.866989076
PAPPA-AS1	RNA Gene	25	GC09M116398	0.866989076
MIR212	RNA Gene	23	GC17M002050	0.866989076
SNHG9	RNA Gene	20	GC16P045939	0.866989076
IGFBP7-AS1	RNA Gene	18	GC04P057109	0.866989076
TMEM161B-DT	RNA Gene	18	GC05P088275	0.866989076
LINC01132	RNA Gene	17	GC01P234724	0.866989076
MIR487A	RNA Gene	17	GC14P112751	0.866989076
RNU1-1	RNA Gene	17	GC01M016514	0.866989076
BGLT3	RNA Gene	16	GC11M008310	0.866989076
MIR920	RNA Gene	16	GC12P024212	0.866989076
RNU1-4	RNA Gene	16	GC01P016740	0.866989076
RNVU1-18	RNA Gene	16	GC01M143729	0.866989076

TRAM2-AS1	RNA Gene	15	GC06P104396	0.866989076
MIR4709	RNA Gene	14	GC14M074481	0.866989076
RNU1-2	RNA Gene	14	GC01P016895	0.866989076
RNU1-3	RNA Gene	14	GC01M018640	0.866989076
RNVU1-29	RNA Gene	8	GC01P153634	0.866989076
LOC124904613	RNA Gene	6	GC01P154735	0.866989076
SPRED3	Protein Coding	42	GC19P038388	0.864996731
LINC02381	RNA Gene	16	GC12P055700	0.864996731
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PRKAR1A	Protein Coding	58	GC17P079119	0.859791875
DNMT3B	Protein Coding	57	GC20P032762	0.859791875
CD55	Protein Coding	56	GC01P207321	0.859791875
ESR2	Protein Coding	56	GC14M064084	0.859791875
SCNN1A	Protein Coding	56	GC12M006346	0.859791875
SERPINA1	Protein Coding	56	GC14M094376	0.859791875
CTCF	Protein Coding	54	GC16P067563	0.859791875
SLC29A1	Protein Coding	54	GC06P044219	0.859791875
WNT1	Protein Coding	54	GC12P050404	0.859791875
ATP5F1A	Protein Coding	53	GC18M046081	0.859791875
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PTGER4	Protein Coding	53	GC05P040679	0.859791875
TDO2	Protein Coding	53	GC04P155854	0.859791875
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NDUFS1	Protein Coding	52	GC02M206114	0.859791875
PLK2	Protein Coding	52	GC05M058453	0.859791875
SHMT2	Protein Coding	52	GC12P057229	0.859791875
SIRT6	Protein Coding	52	GC19M004174	0.859791875
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DCK	Protein Coding	50	GC04P070992	0.859791875
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ST3GAL1	Protein Coding	50	GC08M133454	0.859791875
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SSB	Protein Coding	49	GC02P169791	0.859791875
NAB2	Protein Coding	48	GC12P058182	0.859791875
OLA1	Protein Coding	48	GC02M174072	0.859791875
VTCN1	Protein Coding	48	GC01M117143	0.859791875
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CXCL2	Protein Coding	46	GC04M074097	0.859791875
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BRD8	Protein Coding	45	GC05M138180	0.859791875
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SEPTIN7	Protein Coding	44	GC07P036185	0.859791875

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MLF2	Protein Coding	42	GC12M008465	0.859791875
MRPS26	Protein Coding	42	GC20P004893	0.859791875
NUDT21	Protein Coding	42	GC16M056429	0.859791875
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UCA1	RNA Gene	26	GC19P015828	0.859791875
MIR595	RNA Gene	19	GC07M158532	0.859791875
KCNK15-AS1	RNA Gene	18	GC20M044694	0.859791875
LINC01260	RNA Gene	16	GC20M044656	0.859791875
MIR4284	RNA Gene	16	GC07P073711	0.859791875
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LTBP1	Protein Coding	52	GC02P032946	0.851282775
STUB1	Protein Coding	52	GC16P021377	0.851282775
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AASS	Protein Coding	49	GC07M122073	0.851282775
CCT7	Protein Coding	48	GC02P073233	0.851282775
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LARP4	Protein Coding	42	GC12P050392	0.851282775
LTV1	Protein Coding	41	GC06P143843	0.851282775
TDRD3	Protein Coding	41	GC13P060396	0.851282775
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ACVR1	Protein Coding	59	GC02M157736	0.848768353
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CXCR3	Protein Coding	50	GC0XM071615	0.848047674
DHPS	Protein Coding	50	GC19M015358	0.848047674
CPT1C	Protein Coding	49	GC19P049690	0.848047674
GAB2	Protein Coding	49	GC11M078215	0.848047674
SOX6	Protein Coding	49	GC11M015949	0.848047674
PARP3	Protein Coding	48	GC03P053407	0.848047674
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TAC1	Protein Coding	47	GC07P097734	0.848047674
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RNF32-DT	RNA Gene	27	GC07M156416	0.848047674
MIR206	RNA Gene	23	GC06P052144	0.848047674
MIR136	RNA Gene	22	GC14P112025	0.848047674
MIR15A	RNA Gene	18	GC13M050049	0.848047674
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ALDOA	Protein Coding	55	GC16P030064	0.833242238
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UBAP2L	Protein Coding	45	GC01P155315	0.748132169
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FOXD2-AS1	RNA Gene	20	GC01M047432	0.748132169
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GABPB1-AS1	RNA Gene	18	GC15P054048	0.748132169
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TRN-GTT2-1	RNA Gene	9	GC01P154154	0.724984169
TRN-GTT2-5	RNA Gene	9	GC17M038751	0.724984169
TRN-GTT2-6	RNA Gene	9	GC19P005630	0.724984169
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TRN-GTT2-3	RNA Gene	8	GC10M022229	0.724984169
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MTHFD1	Protein Coding	52	GC14P064388	0.6557464
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GAS6-AS1	RNA Gene	21	GC13P113815	0.512641191
HLA-F-AS1	RNA Gene	21	GC06M080800	0.512641191
MAPT-AS1	RNA Gene	21	GC17M045799	0.512641191
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MIR9-3HG	RNA Gene	20	GC15P133220	0.512641191
MIR744	RNA Gene	19	GC17P012081	0.512641191
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C1RL-AS1	RNA Gene	18	GC12P028331	0.512641191
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UBR5-DT	RNA Gene	17	GC08P102284	0.512641191
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FIBCD1	Protein Coding	44	GC09M130902	0.195514813
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LIN9	Protein Coding	44	GC01M226231	0.195514813
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PIGP	Protein Coding	44	GC21M037059	0.195514813
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TMEFF2	Protein Coding	46	GC02M191950	0.096510969
TMEM165	Protein Coding	46	GC04P055395	0.096510969
TSPAN8	Protein Coding	46	GC12M071125	0.096510969
TXNIP	Protein Coding	46	GC01M145992	0.096510969
UBA3	Protein Coding	46	GC03M069054	0.096510969
WBP2	Protein Coding	46	GC17M075845	0.096510969
WLS	Protein Coding	46	GC01M068098	0.096510969
ZPBP	Protein Coding	46	GC07M049850	0.096510969
ZPR1	Protein Coding	46	GC11M116777	0.096510969
AATK	Protein Coding	45	GC17M081183	0.096510969
B3GLCT	Protein Coding	45	GC13P031200	0.096510969
BCL2L14	Protein Coding	45	GC12P012049	0.096510969
CLEC2D	Protein Coding	45	GC12P028417	0.096510969
CTBS	Protein Coding	45	GC01M084549	0.096510969
CXXC5	Protein Coding	45	GC05P139647	0.096510969
DOK7	Protein Coding	45	GC04P003465	0.096510969
DYNLT1	Protein Coding	45	GC06M158636	0.096510969
FMN1	Protein Coding	45	GC15M032765	0.096510969
FNBP1	Protein Coding	45	GC09M129887	0.096510969
G6PC2	Protein Coding	45	GC02P168901	0.096510969
GNG5	Protein Coding	45	GC01M084498	0.096510969
GNPDA2	Protein Coding	45	GC04M044684	0.096510969
GRIN3A	Protein Coding	45	GC09M101569	0.096510969
HES6	Protein Coding	45	GC02M238238	0.096510969
HYDIN	Protein Coding	45	GC16M071954	0.096510969
IBSP	Protein Coding	45	GC04P087799	0.096510969
KLHL10	Protein Coding	45	GC17P041835	0.096510969
NOVA2	Protein Coding	45	GC19M045933	0.096510969
POMGNT2	Protein Coding	45	GC03M043121	0.096510969
PRDM5	Protein Coding	45	GC04M120752	0.096510969
RAB18	Protein Coding	45	GC10P027504	0.096510969
RCVRN	Protein Coding	45	GC17M009896	0.096510969
RNF144A	Protein Coding	45	GC02P006917	0.096510969
RRAGA	Protein Coding	45	GC09P019049	0.096510969
RTN4IP1	Protein Coding	45	GC06M106571	0.096510969

SEMA3G	Protein Coding	45	GC03M052433	0.096510969
SF3A3	Protein Coding	45	GC01M037956	0.096510969
ST13	Protein Coding	45	GC22M068203	0.096510969
TBL1X	Protein Coding	45	GC0XP009463	0.096510969
UBA6	Protein Coding	45	GC04M067612	0.096510969
VPS26A	Protein Coding	45	GC10P069123	0.096510969
AQP8	Protein Coding	44	GC16P046778	0.096510969
BDP1	Protein Coding	44	GC05P074531	0.096510969
BRF2	Protein Coding	44	GC08M037820	0.096510969
CBLC	Protein Coding	44	GC19P044777	0.096510969
CDH22	Protein Coding	44	GC20M046173	0.096510969
CGN	Protein Coding	44	GC01P154496	0.096510969
CMAS	Protein Coding	44	GC12P022046	0.096510969
COX7A2	Protein Coding	44	GC06M075237	0.096510969
GPR182	Protein Coding	44	GC12P056994	0.096510969
GSPT2	Protein Coding	44	GC0XP051743	0.096510969
INSM1	Protein Coding	44	GC20P020368	0.096510969
MORF4L2	Protein Coding	44	GC0XM103675	0.096510969
PDXDC1	Protein Coding	44	GC16P014974	0.096510969
PRUNE2	Protein Coding	44	GC09M076611	0.096510969
PSPN	Protein Coding	44	GC19M006375	0.096510969
RPL37A	Protein Coding	44	GC02P216498	0.096510969
RPS25	Protein Coding	44	GC11M119015	0.096510969
SCGN	Protein Coding	44	GC06P025652	0.096510969
SRGAP2	Protein Coding	44	GC01P206203	0.096510969
TMSB10	Protein Coding	44	GC02P084905	0.096510969
ART1	Protein Coding	43	GC11P004236	0.096510969
DACT2	Protein Coding	43	GC06M168292	0.096510969
DCTN6	Protein Coding	43	GC08P030206	0.096510969
ETNPPL	Protein Coding	43	GC04M108742	0.096510969
GTF2H2	Protein Coding	43	GC05M075655	0.096510969
IFITM2	Protein Coding	43	GC11P002798	0.096510969
KAZALD1	Protein Coding	43	GC10P101061	0.096510969
MMP26	Protein Coding	43	GC11P004706	0.096510969
PATJ	Protein Coding	43	GC01P061743	0.096510969
PIN4	Protein Coding	43	GC0XP072181	0.096510969
PLEKHA3	Protein Coding	43	GC02P178480	0.096510969
RANBP6	Protein Coding	43	GC09M006002	0.096510969
SKIC8	Protein Coding	43	GC15M136753	0.096510969
TSPAN13	Protein Coding	43	GC07P016753	0.096510969
CIAO2B	Protein Coding	42	GC16M067107	0.096510969
CLIC3	Protein Coding	42	GC09M136994	0.096510969
CPEB2	Protein Coding	42	GC04P021456	0.096510969

CST9L	Protein Coding	42	GC20M023564	0.096510969
DUSP13B	Protein Coding	42	GC10M075094	0.096510969
ELOF1	Protein Coding	42	GC19M011551	0.096510969
FNBP4	Protein Coding	42	GC11M108886	0.096510969
FOXF2	Protein Coding	42	GC06P001389	0.096510969
GMFG	Protein Coding	42	GC19M039328	0.096510969
GPS2	Protein Coding	42	GC17M007311	0.096510969
HMG20B	Protein Coding	42	GC19P003572	0.096510969
IFNL1	Protein Coding	42	GC19P039296	0.096510969
IRAG1	Protein Coding	42	GC11M011274	0.096510969
LSM5	Protein Coding	42	GC07M032485	0.096510969
MAP3K21	Protein Coding	42	GC01P233329	0.096510969
NIM1K	Protein Coding	42	GC05P045002	0.096510969
NT5DC2	Protein Coding	42	GC03M052524	0.096510969
OSTC	Protein Coding	42	GC04P108650	0.096510969
PCGF1	Protein Coding	42	GC02M074505	0.096510969
PDCD2	Protein Coding	42	GC06M170594	0.096510969
PFDN2	Protein Coding	42	GC01M161100	0.096510969
PPP2R2D	Protein Coding	42	GC10P131900	0.096510969
PWWP2A	Protein Coding	42	GC05M160061	0.096510969
ROMO1	Protein Coding	42	GC20P035699	0.096510969
RPRD1A	Protein Coding	42	GC18M035984	0.096510969
SNX6	Protein Coding	42	GC14M034561	0.096510969
SPA17	Protein Coding	42	GC11P124673	0.096510969
TM2D3	Protein Coding	42	GC15M101621	0.096510969
VMP1	Protein Coding	42	GC17P059707	0.096510969
ZDHHC18	Protein Coding	42	GC01P029473	0.096510969
ZNF300	Protein Coding	42	GC05M150894	0.096510969
ABT1	Protein Coding	41	GC06P103913	0.096510969
ASAP3	Protein Coding	41	GC01M023428	0.096510969
DCBLD1	Protein Coding	41	GC06P117453	0.096510969
FBXO22	Protein Coding	41	GC15P075903	0.096510969
HSDL2	Protein Coding	41	GC09P112381	0.096510969
HTRA4	Protein Coding	41	GC08P038980	0.096510969
LMLN	Protein Coding	41	GC03P197961	0.096510969
NUDCD1	Protein Coding	41	GC08M109240	0.096510969
RUBCNL	Protein Coding	41	GC13M046343	0.096510969
TC2N	Protein Coding	41	GC14M115244	0.096510969
TCFL5	Protein Coding	41	GC20M062841	0.096510969
WBP4	Protein Coding	41	GC13P041061	0.096510969
CST2	Protein Coding	40	GC20M023805	0.096510969
DHFR2	Protein Coding	40	GC03M094048	0.096510969
DUSP11	Protein Coding	40	GC02M073805	0.096510969

OTUD3	Protein Coding	40	GC01P019881	0.096510969
SH3YL1	Protein Coding	40	GC02M000208	0.096510969
SYF2	Protein Coding	40	GC01M025222	0.096510969
TARS3	Protein Coding	40	GC15M136761	0.096510969
WIPF3	Protein Coding	40	GC07P029842	0.096510969
ZDHHC23	Protein Coding	40	GC03P113947	0.096510969
ARSH	Protein Coding	39	GC0XP003006	0.096510969
CSRNP3	Protein Coding	39	GC02P165469	0.096510969
KLK9	Protein Coding	39	GC19M051002	0.096510969
MFSD5	Protein Coding	39	GC12P053251	0.096510969
MXRA5	Protein Coding	39	GC0XM003308	0.096510969
PID1	Protein Coding	39	GC02M228850	0.096510969
ARMH4	Protein Coding	38	GC14M058002	0.096510969
ATAD2B	Protein Coding	38	GC02M023677	0.096510969
BCL2L15	Protein Coding	38	GC01M113876	0.096510969
LHFPL3	Protein Coding	38	GC07P104328	0.096510969
PAXX	Protein Coding	38	GC09P137373	0.096510969
SBSN	Protein Coding	38	GC19M082226	0.096510969
SLC7A13	Protein Coding	38	GC08M086214	0.096510969
TMEM37	Protein Coding	38	GC02P119429	0.096510969
TMEM71	Protein Coding	38	GC08M132685	0.096510969
ZNF554	Protein Coding	38	GC19P006076	0.096510969
ARRDC5	Protein Coding	37	GC19M004890	0.096510969
CLDN20	Protein Coding	37	GC06P155264	0.096510969
MACIR	Protein Coding	37	GC05P103259	0.096510969
ANKRD36B	Protein Coding	36	GC02M099678	0.096510969
DEFB125	Protein Coding	36	GC20P000087	0.096510969
TMEM183A	Protein Coding	36	GC01P203007	0.096510969
HGH1	Protein Coding	35	GC08P144137	0.096510969
CLDND2	Protein Coding	34	GC19M079997	0.096510969
HCP5	RNA Gene	34	GC06P031400	0.096510969
C19orf38	Protein Coding	33	GC19P011118	0.096510969
SATL1	Protein Coding	33	GC0XM085092	0.096510969
TSGA13	Protein Coding	33	GC07M130668	0.096510969
ASB16-AS1	RNA Gene	29	GC17M060974	0.096510969
H1-9P	Pseudogene	28	GC17M061315	0.096510969
NANOGP8	Protein Coding	27	GC15M035083	0.096510969
ADAM5	Pseudogene	26	GC08P039291	0.096510969
NBR2	RNA Gene	26	GC17P043125	0.096510969
SMIM30	Protein Coding	26	GC07M113117	0.096510969
SNHG11	RNA Gene	26	GC20P038446	0.096510969
DHRS4-AS1	RNA Gene	24	GC14M023938	0.096510969
MIR192	RNA Gene	24	GC11M064891	0.096510969

MIR193B	RNA Gene	24	GC16P046211	0.096510969
MIR499A	RNA Gene	24	GC20P034990	0.096510969
PICSAR	RNA Gene	24	GC21M052320	0.096510969
PRECSIT	RNA Gene	24	GC13M110864	0.096510969
ST7-AS1	RNA Gene	24	GC07M116943	0.096510969
MIR337	RNA Gene	22	GC14P112734	0.096510969
ST13P4	Pseudogene	22	GC13P050172	0.096510969
CTBP1-DT	RNA Gene	21	GC04P001850	0.096510969
FLG-AS1	RNA Gene	21	GC01P152168	0.096510969
LINC00869	RNA Gene	21	GC01P154201	0.096510969
MIR551A	RNA Gene	21	GC01M003560	0.096510969
SNHG17	RNA Gene	21	GC20M038785	0.096510969
SNORA75	RNA Gene	21	GC02M231455	0.096510969
TTC28-AS1	RNA Gene	21	GC22P052119	0.096510969
ARHGAP19-SLIT1	RNA Gene	20	GC10M097153	0.096510969
CECR7	RNA Gene	20	GC22P051678	0.096510969
LINC00240	RNA Gene	20	GC06P026956	0.096510969
MIR1296	RNA Gene	20	GC10M063372	0.096510969
MIR520D	RNA Gene	20	GC19P053720	0.096510969
PTPRG-AS1	RNA Gene	20	GC03M062248	0.096510969
GDNF-AS1	RNA Gene	19	GC05P037812	0.096510969
HIF1A-AS1	RNA Gene	19	GC14M061681	0.096510969
MALINC1	RNA Gene	19	GC05M140073	0.096510969
MIR1915	RNA Gene	19	GC10M021496	0.096510969
MIR323B	RNA Gene	19	GC14P112731	0.096510969
RNY1	RNA Gene	19	GC07M148987	0.096510969
SNORA69	RNA Gene	19	GC0XM119787	0.096510969
CD27-AS1	RNA Gene	18	GC12M006439	0.096510969
EPIST	RNA Gene	18	GC05M135190	0.096510969
HOXC-AS3	RNA Gene	18	GC12M053981	0.096510969
LINC00462	RNA Gene	18	GC13M048576	0.096510969
LINC00910	RNA Gene	18	GC17M043335	0.096510969
LINC01198	RNA Gene	18	GC13M046455	0.096510969
MIR3200	RNA Gene	18	GC22P030731	0.096510969
MIR372	RNA Gene	18	GC19P083881	0.096510969
MIR651	RNA Gene	18	GC0XP008127	0.096510969
PELATON	RNA Gene	18	GC20P050248	0.096510969
RGMB-AS1	RNA Gene	18	GC05M098769	0.096510969
SNORD46	RNA Gene	18	GC01P045604	0.096510969
SSTR5-AS1	RNA Gene	18	GC16M001064	0.096510969
AGPAT4-IT1	RNA Gene	17	GC06M161160	0.096510969
IDH1-AS1	RNA Gene	17	GC02P208261	0.096510969
MIR105-1	RNA Gene	17	GC0XM152392	0.096510969

MIR1469	RNA Gene	17	GC15P096333	0.096510969
MIR2052HG	RNA Gene	17	GC08P074599	0.096510969
MIR3191	RNA Gene	17	GC19M047226	0.096510969
MIR4677	RNA Gene	17	GC01P243346	0.096510969
MIR5010	RNA Gene	17	GC17P042514	0.096510969
MIR513A1	RNA Gene	17	GC0XM147213	0.096510969
RNY4	RNA Gene	17	GC07P148963	0.096510969
SKAP1-AS2	RNA Gene	17	GC17P078478	0.096510969
LINC00449	RNA Gene	16	GC13M099499	0.096510969
LINC01857	RNA Gene	16	GC02P207663	0.096510969
MHRT	RNA Gene	16	GC14P039491	0.096510969
MIR3679	RNA Gene	16	GC02P134127	0.096510969
MYOSLID	RNA Gene	16	GC02P207290	0.096510969
SNORD29	RNA Gene	16	GC11M062853	0.096510969
LINC01007	RNA Gene	15	GC07M101562	0.096510969
LINC01232	RNA Gene	15	GC13M099487	0.096510969
MIR1202	RNA Gene	15	GC06P155946	0.096510969
MIR580	RNA Gene	15	GC05M036147	0.096510969
LINC00906	RNA Gene	14	GC19P083053	0.096510969
LINC02110	RNA Gene	14	GC05P037950	0.096510969
LINC02885	RNA Gene	14	GC22M068123	0.096510969
MIR1200	RNA Gene	14	GC07M036926	0.096510969
MIR3143	RNA Gene	14	GC06P103920	0.096510969
MIR4281	RNA Gene	14	GC05M177001	0.096510969
MIR4330	RNA Gene	14	GC0XP151168	0.096510969
MIR4539	RNA Gene	14	GC14M115512	0.096510969
MIR4721	RNA Gene	14	GC16M040702	0.096510969
SNORD81	RNA Gene	14	GC01M174766	0.096510969
GJA9-MYCBP	RNA Gene	13	GC01M038934	0.096510969
HERC2P2	Pseudogene	13	GC15P022494	0.096510969
MIR302E	RNA Gene	13	GC11P007234	0.096510969
MIR3665	RNA Gene	13	GC13M077698	0.096510969
MIR3667	RNA Gene	13	GC22M049543	0.096510969
MIR3925	RNA Gene	13	GC06M081065	0.096510969
MIR4280	RNA Gene	13	GC05M087114	0.096510969
MIR4306	RNA Gene	13	GC13P099643	0.096510969
MIR4688	RNA Gene	13	GC11P046376	0.096510969
MIR664B	RNA Gene	13	GC0XP154768	0.096510969
CCDST	RNA Gene	12	GC01P154622	0.096510969
MIR3621	RNA Gene	12	GC09M138236	0.096510969
MIR3684	RNA Gene	12	GC04P098997	0.096510969
MIR4267	RNA Gene	12	GC02M110069	0.096510969
MIR4436B1	RNA Gene	12	GC02M110086	0.096510969

MIR548AT	RNA Gene	12	GC17P042494	0.096510969
MIR6088	RNA Gene	12	GC19P045436	0.096510969
MIR6892	RNA Gene	12	GC07P143382	0.096510969
RCC2-AS1	RNA Gene	12	GC01P018408	0.096510969
SNORD139	RNA Gene	12	GC22M069907	0.096510969
TRU-TCA1-1	RNA Gene	12	GC19M045478	0.096510969
MIR4768	RNA Gene	11	GC0XP017447	0.096510969
ENSG00000259222	RNA Gene	10	GC15P069080	0.096510969
MIR4760	RNA Gene	10	GC21M040212	0.096510969
MIR6836	RNA Gene	10	GC07M002257	0.096510969
MIR6852	RNA Gene	10	GC09M035710	0.096510969
MIR6879	RNA Gene	10	GC11P065018	0.096510969
MIR7110	RNA Gene	10	GC03P123161	0.096510969
MIR7843	RNA Gene	10	GC14P072516	0.096510969
MIR7845	RNA Gene	10	GC02P207166	0.096510969
MIR4436B2	RNA Gene	9	GC02P110284	0.096510969
MIR548BA	RNA Gene	9	GC02P049059	0.096510969
MIR6735	RNA Gene	9	GC01P043448	0.096510969
MIR6763	RNA Gene	9	GC12P132581	0.096510969
NF1P3	Pseudogene	9	GC21P014000	0.096510969
ENSG00000227540	Uncategorized	8	GC10P073253	0.096510969
ENSG00000248533	RNA Gene	8	GC05P037953	0.096510969
TRD-GTC9-1	RNA Gene	8	GC01P161972	0.096510969
PTPRZ2	Protein Coding	7	GC01U990129	0.096510969
LOC107988030	Functional Element	4	GC03P069934	0.096510969
MI0033425-002	RNA Gene	4	GC21P013396	0.096510969
OA985516	RNA Gene	4	GC01M156492	0.096510969
LOC106014249	Functional Element	2	GC11P031811	0.096510969
LOC108348017	Functional Element	2	GC08U902673	0.096510969
LOC108449888	Functional Element	2	GC22U901439	0.096510969
LOC108449897	Functional Element	2	GC11U902939	0.096510969
MI0033425-001	RNA Gene	2	GC21P013344	0.096510969
MI0033425-003	RNA Gene	2	GC21P013425	0.096510969
MI0033425-004	RNA Gene	2	GC21P014956	0.096510969

Supplementary Table S4. The functional enrichments of key proteins regulated by plinabulin in glioblastoma cells

Protein description	Gene name	P	C	log2FoldChange	P-value
activating transcription factor 3 [Source:HGNC Symbol:Acc:HGNC:785]	ATF3	494.4792981	44.00304817	3.486322908	1.22E-12
early growth response 1 [Source:HGNC Symbol:Acc:HGNC:3238]	EGR1	624.7725605	96.43862487	2.69397832	4.34E-09
KIT proto-oncogene receptor tyrosine kinase [Source:HGNC Symbol;Acc:HGNC:6342]	KIT	60.88039845	395.1340547	-2.695948841	1.13E-08
transforming growth factor beta 3 [Source:HGNC Symbol;Acc:HGNC:11769]	TGFB3	1.39E-17	36.51224833	-8.198557956	4.11E-08
Fos proto-oncogene, AP-1 transcription factor subunit [Source:HGNC Symbol:Acc:HGNC:3796]	FOS	33.11297727	1.39E-17	8.05762048	1.67E-07
patched 1 [Source:HGNC Symbol:Acc:HGNC:9585]	PTCH1	9.61748085	86.13878094	-3.1473606	2.75E-07
lymphocyte activating 3 [Source:HGNC Symbol:Acc:HGNC:6476]	LAG3	46.99668802	2.803512689	4.005377595	7.30E-07
apolipoprotein E [Source:HGNC Symbol:Acc:HGNC:613]	APOE	49.1326435	5.612623228	3.100340763	5.26E-06
androgen receptor [Source:HGNC Symbol:Acc:HGNC:644]	AR	7.481534896	60.85734347	-3.004331879	6.24E-06
growth differentiation factor 5 [Source:HGNC Symbol:Acc:HGNC:4220]	GDF5	1.39E-17	21.53064037	-7.440129946	1.27E-05
REL proto-oncogene, NF-kB subunit [Source:HGNC Symbol;Acc:HGNC:9954]	REL	6.413564692	51.49384665	-2.982312033	1.83E-05
histone cluster 3 H2B family member b [Source:HGNC Symbol;Acc:HGNC:20514]	HIST3H2BB	1.073801217	23.40334237	-4.302401115	4.96E-05
fibroblast growth factor 8 [Source:HGNC Symbol:Acc:HGNC:3686]	FGF8	17.09331363	1.39E-17	7.108491712	0.000120499
early B cell factor 1 [Source:HGNC Symbol:Acc:HGNC:3126]	EBF1	7.481534896	43.06669828	-2.50674422	0.000325735
histone cluster 1 H4 family member e [Source:HGNC Symbol;Acc:HGNC:4790]	HIST1H4E	13.88938313	1.39E-17	6.811342003	0.000517265
melanocortin 4 receptor [Source:HGNC Symbol:Acc:HGNC:6932]	MC4R	3.209682326	23.40334237	-2.821698912	0.000829981

galectin 9 [Source:HGNC Symbol:Acc:HGNC:6570]	LGALS9	19.22926811	1.867125512	3.275992861	0.001597933
SET binding protein 1 [Source:HGNC Symbol:Acc:HGNC:15573]	SETBP1	1.39E-17	11.23076607	-6.509125704	0.002434933
arachidonate 5-lipoxygenase [Source:HGNC Symbol:Acc:HGNC:435]	ALOX5	1.39E-17	10.29441168	-6.385034028	0.004174171
dopamine receptor D4 [Source:HGNC Symbol:Acc:HGNC:3025]	DRD4	3.209682326	18.72158642	-2.501681165	0.004849114
glycoprotein Ib platelet subunit alpha [Source:HGNC Symbol:Acc:HGNC:4439]	GP1BA	1.073801217	13.10347318	-3.471895302	0.005281544
paired box 6 [Source:HGNC Symbol:Acc:HGNC:8620]	PAX6	1.073801217	13.10347318	-3.471895302	0.005281544
C-X-C motif chemokine ligand 3 [Source:HGNC Symbol:Acc:HGNC:4604]	CXCL3	9.61748085	1.39E-17	6.2865252	0.007243414
histone cluster 1 H3 family member j [Source:HGNC Symbol:Acc:HGNC:4774]	HIST1H3J	1.39E-17	9.35805656	-6.24925566	0.007243414
C-X-C motif chemokine ligand 2 [Source:HGNC Symbol:Acc:HGNC:4603]	CXCL2	17.09331363	2.803512689	2.552614258	0.010033723
cytochrome P450 family 27 subfamily A member 1 [Source:HGNC Symbol:Acc:HGNC:2605]	CYP27A1	8.549507169	1.39E-17	6.118908563	0.012730848
POU class 5 homeobox 1 [Source:HGNC Symbol:Acc:HGNC:9221]	POU5F1	1.39E-17	7.485343244	-5.932061131	0.012730848
gastric inhibitory polypeptide receptor [Source:HGNC Symbol:Acc:HGNC:4271]	GIPR	1.39E-17	7.485343244	-5.932061131	0.012730848
CD96 molecule [Source:HGNC Symbol:Acc:HGNC:16892]	CD96	1.39E-17	7.485343244	-5.932061131	0.012730848
complement C5a receptor 1 [Source:HGNC Symbol:Acc:HGNC:1338]	C5AR1	8.549507169	1.39E-17	6.118908563	0.012730848
interleukin 7 [Source:HGNC Symbol:Acc:HGNC:6023]	IL7	10.68545552	0.930762124	3.348028521	0.013412089
TNF receptor superfamily member 14 [Source:HGNC Symbol:Acc:HGNC:11912]	TNFRSF14	7.481534896	1.39E-17	5.929225966	0.022676824
thymic stromal lymphopoietin [Source:HGNC Symbol:Acc:HGNC:30743]	TSLP	7.481534896	1.39E-17	5.929225966	0.022676824

T-box 5 [Source:HGNC Symbol:Acc:HGNC:11604]	TBX5	1.39E-17	6.54898436	-5.742787688	0.022676824
cytochrome b-245 alpha chain [Source:HGNC Symbol:Acc:HGNC:2577]	CYBA	7.481534896	1.39E-17	5.929225966	0.022676824
CD200 receptor 1 [Source:HGNC Symbol:Acc:HGNC:24235]	CD200R1	7.481534896	1.39E-17	5.929225966	0.022676824
pancreatic and duodenal homeobox 1 [Source:HGNC Symbol:Acc:HGNC:6107]	PDX1	7.481534896	1.39E-17	5.929225966	0.022676824
caveolin 3 [Source:HGNC Symbol:Acc:HGNC:1529]	CAV3	1.39E-17	6.54898436	-5.742787688	0.022676824
EPH receptor A1 [Source:HGNC Symbol:Acc:HGNC:3385]	EPHA1	7.481534896	1.39E-17	5.929225966	0.022676824
solute carrier family 6 member 4 [Source:HGNC Symbol:Acc:HGNC:11050]	SLC6A4	7.481534896	1.39E-17	5.929225966	0.022676824
oxytocin/neurophysin I prepropeptide [Source:HGNC Symbol:Acc:HGNC:8528]	OXT	7.481534896	1.39E-17	5.929225966	0.022676824
NLR family pyrin domain containing 3 [Source:HGNC Symbol:Acc:HGNC:16400]	NLRP3	9.61748085	0.930762124	3.197874782	0.034866602
colony stimulating factor 2 [Source:HGNC Symbol:Acc:HGNC:2434]	CSF2	6.413564692	1.39E-17	5.71077408	0.040964585
T-box 6 [Source:HGNC Symbol:Acc:HGNC:11605]	TBX6	6.413564692	1.39E-17	5.71077408	0.040964585
interferon regulatory factor 8 [Source:HGNC Symbol:Acc:HGNC:5358]	IRF8	1.39E-17	5.612623228	-5.524878558	0.040964585
CD8a molecule [Source:HGNC Symbol:Acc:HGNC:1706]	CD8A	1.39E-17	5.612623228	-5.524878558	0.040964585
cytokine receptor like factor 2 [Source:HGNC Symbol:Acc:HGNC:14281]	CRLF2	1.39E-17	5.612623228	-5.524878558	0.040964585
