

Table S2. Target genes of miR-146a and miR-146a*G and miR-146a*C predicted by TargetRank software

Target genes predicted for miR-146a

microRNA	Rank	GeneName	Gene/Isoform Description	Refseq ID	TargetRank Score	Seed matches
miR-146a	1	SFRS6	arginine/serine-rich splicing factor 6	NM_006275	0,74	3
miR-146a	2	FLJ44894	similar to zinc finger protein 91	NM_001039884	0,72	3
miR-146a	3	PHF20L1	PHD finger protein 20-like 1 isoform 1	NM_016018	0,70	4
miR-146a	4	PTAR1	protein prenyltransferase alpha subunit repeat	NM_001099666	0,69	3
miR-146a	5	TRDMT1	tRNA aspartic acid methyltransferase 1 isoform	NM_004412	0,63	5
miR-146a	6	TNRC6A	trinucleotide repeat containing 6A	NM_014494	0,63	4
miR-146a	7	TRAF6	TNF receptor-associated factor 6	NM_145803	0,62	3
miR-146a	8	DTNA	dystrobrevin alpha isoform 2	NM_032975	0,58	3
miR-146a	9	ITCH	itchy homolog E3 ubiquitin protein ligase	NM_031483	0,57	4
miR-146a	10	SLC38A1	amino acid transporter system A1	NM_030674	0,56	5
miR-146a	11	NFAT5	nuclear factor of activated T-cells 5 isoform c	NM_006599	0,55	5
miR-146a	12	C2orf37	hypothetical protein LOC80067	NM_025000	0,53	4
miR-146a	13	NOVA1	neuro-oncological ventral antigen 1 isoform 1	NM_002515	0,53	4
miR-146a	14	FLJ20309	hypothetical protein LOC54891	NM_017759	0,52	5
miR-146a	15	ZNF253	zinc finger protein 253	NM_021047	0,51	2
miR-146a	16	PRKCE	protein kinase C - epsilon	NM_005400	0,50	4
miR-146a	17	ZC3H12B	zinc finger CCCH-type containing 12B	NM_001010888	0,49	2
miR-146a	18	ZNF257	zinc finger protein 257	NM_033468	0,48	2
miR-146a	19	MS4A1	membrane-spanning 4-domains - subfamily A - member	NM_021950	0,48	2
miR-146a	19	PHKB	phosphorylase kinase - beta isoform a	NM_000293	0,48	2
miR-146a	21	MED1	mediator complex subunit 1	NM_004774	0,47	3
miR-146a	22	CCDC6	coiled-coil domain containing 6	NM_005436	0,47	3
miR-146a	23	KIAA0152	hypothetical protein LOC9761	NM_014730	0,47	7
miR-146a	24	NOTCH2	notch 2 preproprotein	NM_024408	0,47	4

miR-146a	25	ARF6	ADP-ribosylation factor 6	NM_001663	0,46	2
miR-146a	26	ZHX3	zinc fingers and homeoboxes 3	NM_015035	0,46	5
miR-146a	27	ZNF506	zinc finger protein 506	NM_001099269	0,46	2
miR-146a	28	MOBK1A	MOB1 - Mps One Binder kinase activator-like 1A	NM_173468	0,45	4
miR-146a	29	ZBTB2	zinc finger and BTB domain containing 2	NM_020861	0,45	3
miR-146a	29	ST7L	suppression of tumorigenicity 7-like isoform 1	NM_017744	0,45	3
miR-146a	29	GOSR1	golgi SNAP receptor complex member 1 isoform 1	NM_004871	0,45	2
miR-146a	32	MARCH6	membrane-associated ring finger (C3HC4) 6	NM_005885	0,45	3
miR-146a	32	FUT9	fucosyltransferase 9 (alpha (1 -3))	NM_006581	0,45	4
miR-146a	34	SORT1	sortilin 1 preproprotein	NM_002959	0,45	3
miR-146a	35	ZNRF3	zinc and ring finger 3	NM_032173	0,44	4
miR-146a	36	ZNF117	zinc finger protein 117	NM_015852	0,44	2
miR-146a	37	ZNF148	zinc finger protein 148 (pHZ-52)	NM_021964	0,43	2
miR-146a	38	WDFY3	WD repeat and FYVE domain containing 3 isoform	NM_178583	0,42	2
miR-146a	39	MYO5A	myosin VA (heavy polypeptide 12 - myosin)	NM_000259	0,42	3
miR-146a	40	MMP16	matrix metalloproteinase 16 isoform 1	NM_005941	0,42	3
miR-146a	41	RASGRP1	RAS guanyl releasing protein 1	NM_005739	0,42	2
miR-146a	42	IER5L	immediate early response 5-like	NM_203434	0,42	3
miR-146a	43	HIF3A	hypoxia-inducible factor-3 alpha isoform b	NM_022462	0,42	4
miR-146a	44	IRAK1	interleukin-1 receptor-associated kinase 1	NM_001569	0,41	2
miR-146a	45	SORCS1	SORCS receptor 1 isoform a	NM_052918	0,41	4
miR-146a	45	SORCS1	SORCS receptor 1 isoform b	NM_001013031	0,41	4
miR-146a	47	NTRK2	neurotrophic tyrosine kinase - receptor - type 2	NM_001007097	0,41	3
miR-146a	48	FLJ45557	hypothetical protein LOC642938	NM_001039762	0,40	2
miR-146a	49	PAPPA	pregnancy-associated plasma protein A	NM_002581	0,40	4
miR-146a	49	PGAP1	GPI deacylase	NM_024989	0,40	2
miR-146a	51	DLGAP2	discs large-associated protein 2	NM_004745	0,40	5
miR-146a	52	RGS5	regulator of G-protein signalling 5	NM_003617	0,40	4
miR-146a	53	SYNPO2	synaptopodin 2	NM_133477	0,40	4
miR-146a	54	ADAMTS18	ADAM metalloproteinase with thrombospondin type 1	NM_199355	0,39	2
miR-146a	55	ERBB4	v-erb-a erythroblastic leukemia viral oncogene	NM_005235	0,39	3

miR-146a	56	GALNT10	GalNAc transferase 10 isoform a	NM_198321	0,39	3
miR-146a	57	PDGFRA	platelet-derived growth factor receptor alpha	NM_006206	0,38	2
miR-146a	58	ZNF138	zinc finger protein 138	NM_006524	0,38	2
miR-146a	59	PPP2R1B	beta isoform of regulatory subunit A - protein	NM_002716	0,38	5
miR-146a	60	FBXL3	F-box and leucine-rich repeat protein 3	NM_012158	0,38	2
miR-146a	60	CXorf1	hypothetical protein LOC9142	NM_004709	0,38	2
miR-146a	62	CREBL2	cAMP responsive element binding protein-like 2	NM_001310	0,38	2
miR-146a	63	IGSF1	immunoglobulin superfamily - member 1 isoform 2	NM_205833	0,38	2
miR-146a	63	FAM110B	hypothetical protein LOC90362	NM_147189	0,38	2
miR-146a	65	LRRC15	leucine rich repeat containing 15	NM_130830	0,37	3
miR-146a	66	GALNAC4S-6ST	B cell RAG associated protein	NM_015892	0,36	3
miR-146a	67	SYT14	synaptotagmin XIV	NM_153262	0,36	4
miR-146a	67	FLJ10781	hypothetical protein LOC55228	NM_018215	0,36	3
miR-146a	69	GRSF1	G-rich RNA sequence binding factor 1 isoform 1	NM_002092	0,36	3
miR-146a	70	PARD6G	PAR-6 gamma protein	NM_032510	0,36	2
miR-146a	71	FAM62B	family with sequence similarity 62 (C2 domain	NM_020728	0,36	2
miR-146a	72	PPM1H	protein phosphatase 1H (PP2C domain containing)	NM_020700	0,35	4
miR-146a	73	AFF2	fragile X mental retardation 2	NM_002025	0,35	5
miR-146a	73	NUS1	nuclear undecaprenyl pyrophosphate synthase 1	NM_138459	0,35	3
miR-146a	75	COL9A1	alpha 1 type IX collagen isoform 1 precursor	NM_001851	0,35	2
miR-146a	75	UBE2G1	ubiquitin-conjugating enzyme E2G 1	NM_003342	0,35	2
miR-146a	75	LOC339745	hypothetical protein LOC339745	NM_001001664	0,35	2
miR-146a	75	GRID1	glutamate receptor - ionotropic - delta 1	NM_017551	0,35	2

Target genes predicted for miR-146a*G

microRNA	Rank	GeneName	Gene/Isoform Description	Refseq ID	TargetRank Score	Seed matches
miR-146a*G	1	GABRA4	gamma-aminobutyric acid A receptor - alpha 4	NM_000809	0,89	8
miR-146a*G	2	EPM2AIP1	EPM2A interacting protein 1	NM_014805	0,75	4
miR-146a*G	3	PSD3	ADP-ribosylation factor guanine nucleotide	NM_015310	0,74	8

miR-146a*G	4	PCDH7	protocadherin 7 isoform c precursor	NM_032457	0,73	3
miR-146a*G	5	RNF38	ring finger protein 38 isoform 2	NM_194328	0,73	5
miR-146a*G	6	HSPA12A	heat shock 70kDa protein 12A	NM_025015	0,66	7
miR-146a*G	7	KLF12	Kruppel-like factor 12	NM_007249	0,65	4
miR-146a*G	8	ESR1	estrogen receptor 1	NM_000125	0,65	5
miR-146a*G	9	CDC2L6	cell division cycle 2-like 6 (CDK8-like)	NM_015076	0,65	3
miR-146a*G	10	CTSC	cathepsin C isoform b precursor	NM_148170	0,62	4
miR-146a*G	11	KLHL3	kelch-like 3	NM_017415	0,61	4
miR-146a*G	12	ENTPD1	ectonucleoside triphosphate diphosphohydrolase 1	NM_001098175	0,61	9
miR-146a*G	13	PTGER3	prostaglandin E receptor 3 - subtype EP3 isoform	NM_198715	0,60	5
miR-146a*G	14	PLCXD3	phosphatidylinositol-specific phospholipase C - X membrane component chromosome 11 surface marker	NM_001005473	0,60	4
miR-146a*G	15	CAPRIN1	marker	NM_005898	0,59	4
miR-146a*G	16	RGS5	regulator of G-protein signalling 5	NM_003617	0,57	4
miR-146a*G	17	C6orf35	hypothetical protein LOC729515	NM_018452	0,57	4
miR-146a*G	18	SLC1A2	excitatory amino acid transporter 2	NM_004171	0,57	4
miR-146a*G	19	RUNX1	runt-related transcription factor 1 isoform a	NM_001754	0,56	2
miR-146a*G	20	ZNF592	zinc finger protein 592	NM_014630	0,56	6
miR-146a*G	21	KIAA0256	hypothetical protein LOC9728	NM_014701	0,55	3
miR-146a*G	22	CCND2	cyclin D2	NM_001759	0,54	3
miR-146a*G	23	XPO4	exportin 4	NM_022459	0,54	4
miR-146a*G	24	ELTD1	EGF - latrophilin and seven transmembrane domain	NM_022159	0,54	3
miR-146a*G	25	KSR2	kinase suppressor of ras 2	NM_173598	0,53	6
miR-146a*G	26	BMPR2	bone morphogenetic protein receptor type II	NM_001204	0,51	3
miR-146a*G	27	CHML	choroideremia-like Rab escort protein 2	NM_001821	0,51	4
miR-146a*G	28	BBS9	parathyroid hormone-responsive B1 isoform 2	NM_198428	0,51	2
miR-146a*G	28	RTN4	reticulon 4 isoform E	NM_207521	0,51	2
miR-146a*G	30	SLC23A2	solute carrier family 23 (nucleobase	NM_005116	0,50	5
miR-146a*G	31	PHC3	polyhomeotic like 3	NM_024947	0,50	5
miR-146a*G	32	NTRK2	neurotrophic tyrosine kinase - receptor - type 2	NM_001007097	0,50	3
miR-146a*G	33	TOP1	DNA topoisomerase I	NM_003286	0,49	2
miR-146a*G	34	KIAA1199	KIAA1199	NM_018689	0,49	5

miR-146a*G	35	CRX	cone-rod homeobox protein	NM_000554	0,49	4
miR-146a*G	35	SOX11	SRY-box 11	NM_003108	0,49	2
miR-146a*G	37	WDR69	WD repeat domain 69	NM_178821	0,48	2
miR-146a*G	38	PARP15	poly (ADP-ribose) polymerase family - member 15	NM_152615	0,48	4
miR-146a*G	39	TPPP	tubulin polymerization promoting protein	NM_007030	0,48	15
miR-146a*G	40	DCP1A	DCP1 decapping enzyme homolog A	NM_018403	0,48	4
miR-146a*G	41	CD2AP	CD2-associated protein	NM_012120	0,48	2
miR-146a*G	42	EIF5	eukaryotic translation initiation factor 5	NM_183004	0,48	2
miR-146a*G	43	BVES	blood vessel epicardial substance isoform 4	NM_007073	0,47	6
miR-146a*G	44	STARD3NL	MLN64 N-terminal homolog	NM_032016	0,47	3
miR-146a*G	45	YTHDC1	splicing factor YT521-B isoform 2	NM_133370	0,47	3
miR-146a*G	45	GLRA3	glycine receptor - alpha 3 isoform b	NM_001042543	0,47	2
miR-146a*G	47	AQP4	aquaporin 4 isoform a	NM_001650	0,46	3
miR-146a*G	48	ADD3	adducin 3 (gamma) isoform b	NM_019903	0,46	3
miR-146a*G	49	FBXO3	F-box only protein 3 isoform 1	NM_012175	0,45	2
miR-146a*G	50	SLC2A12	solute carrier family 2 (facilitated glucose	NM_145176	0,45	3
miR-146a*G	51	ZMAT4	zinc finger - matrin type 4	NM_024645	0,45	2
miR-146a*G	52	GOLGA8E	golgi autoantigen - golgin subfamily a - 8E	NM_001012423	0,45	3
miR-146a*G	53	KIAA1909	hypothetical protein LOC153478	NM_052909	0,45	7
miR-146a*G	54	STXBP3	syntaxin binding protein 3	NM_007269	0,45	2
miR-146a*G	54	ZC3H12C	zinc finger CCCH-type containing 12C	NM_033390	0,45	2
miR-146a*G	56	NR5A2	nuclear receptor subfamily 5 - group A - member 2	NM_003822	0,45	5
miR-146a*G	57	TRIM67	tripartite motif-containing 67	NM_001004342	0,44	5
miR-146a*G	58	DIAPH2	diaphanous 2 isoform 156	NM_006729	0,44	5
miR-146a*G	59	ZBTB38	zinc finger and BTB domain containing 38	NM_001080412	0,43	3
miR-146a*G	60	NLGN1	neuroligin 1	NM_014932	0,43	2
miR-146a*G	61	PCDH19	protocadherin 19	NM_020766	0,43	3
miR-146a*G	62	USP45	ubiquitin specific peptidase 45	NM_001080481	0,43	3
miR-146a*G	63	TPD52	tumor protein D52 isoform 2	NM_001025253	0,43	2

miR-146a*G	64	KIAA1462	hypothetical protein LOC57608	NM_020848	0,42	3
miR-146a*G	65	GLIS3	GLIS family zinc finger 3 isoform b	NM_152629	0,42	7
miR-146a*G	66	C9orf123	hypothetical protein LOC90871	NM_033428	0,42	4
miR-146a*G	67	PRKG1	protein kinase - cGMP-dependent - type I isoform	NM_006258	0,42	2
miR-146a*G	67	DGKB	diacylglycerol kinase - beta isoform 1	NM_004080	0,42	2
miR-146a*G	67	PTPRG	protein tyrosine phosphatase - receptor type - G	NM_002841	0,42	2
miR-146a*G	67	LIFR	leukemia inhibitory factor receptor precursor	NM_002310	0,42	2
miR-146a*G	71	MAGI2	membrane associated guanylate kinase - WW and PDZ	NM_012301	0,42	3
miR-146a*G	72	IGF2BP2	insulin-like growth factor 2 mRNA binding	NM_006548	0,42	2
miR-146a*G	73	AFF3	AF4/FMR2 family - member 3 isoform 1	NM_002285	0,42	5
miR-146a*G	74	TAP2	transporter 2 - ATP-binding cassette - sub-family	NM_000544	0,42	3
miR-146a*G	75	KIAA1045	hypothetical protein LOC23349	NM_015297	0,42	5
miR-146a*G	75	MED13	mediator complex subunit 13	NM_005121	0,42	3
miR-146a*G	77	ICMT	isoprenylcysteine carboxyl methyltransferase	NM_012405	0,42	3
miR-146a*G	78	PDCD6IP	programmed cell death 6 interacting protein	NM_013374	0,42	4
miR-146a*G	79	CREB3L2	cAMP responsive element binding protein 3-like	NM_194071	0,41	2
miR-146a*G	80	TFCP2L1	LBP-9	NM_014553	0,41	2
miR-146a*G	80	TMTC1	transmembrane and tetratricopeptide repeat	NM_175861	0,41	2
miR-146a*G	82	PAPPA	pregnancy-associated plasma protein A	NM_002581	0,40	4
miR-146a*G	82	S100A7A	S100 calcium binding protein A7-like 1	NM_176823	0,40	4
miR-146a*G	84	MYO6	myosin VI	NM_004999	0,40	4
miR-146a*G	85	RBM9	RNA binding motif protein 9 isoform 3	NM_001082576	0,40	4
miR-146a*G	85	RBM9	RNA binding motif protein 9 isoform 2	NM_014309	0,40	4
miR-146a*G	87	KLHL14	kelch-like 14	NM_020805	0,40	2
miR-146a*G	87	SEMA3D	semaphorin 3D	NM_152754	0,40	2
miR-146a*G	89	MKL2	megakaryoblastic leukemia 2 protein	NM_014048	0,40	7
miR-146a*G	90	SLFN5	schlafen family member 5	NM_144975	0,40	3
miR-146a*G	91	MYO10	myosin X	NM_012334	0,40	4
miR-146a*G	92	BCL2	B-cell lymphoma protein 2 alpha isoform	NM_000633	0,39	2
miR-146a*G	92	FLJ37543	hypothetical protein LOC285668	NM_173667	0,39	2
miR-146a*G	94	THAP6	THAP domain containing 6	NM_144721	0,39	2
miR-146a*G	94	SEMA5A	semaphorin 5A	NM_003966	0,39	4

miR-146a*G	96	LOC100113407	hypothetical protein LOC100113407	NM_001100829	0,39	5
miR-146a*G	97	ARHGAP26	GTPase regulator associated with the focal	NM_015071	0,39	3
miR-146a*G	98	GIT2	G protein-coupled receptor kinase-interactor 2	NM_057169	0,39	4
miR-146a*G	99	EPB41L5	erythrocyte membrane protein band 4.1 like 5	NM_020909	0,39	4
miR-146a*G	100	STS-1	Cbl-interacting protein Sts-1	NM_032873	0,38	2
miR-146a*G	100	INTS6	integrator complex subunit 6 isoform a	NM_012141	0,38	2
miR-146a*G	102	SCN2A	sodium channel - voltage-gated - type II - alpha	NM_001040142	0,38	3
miR-146a*G	103	GALK2	galactokinase 2 isoform 2	NM_001001556	0,38	2
miR-146a*G	104	FAM74A3	hypothetical protein LOC728495	NM_001098718	0,38	2
miR-146a*G	104	IL1RAP	interleukin 1 receptor accessory protein isoform	NM_002182	0,38	2
miR-146a*G	104	RAB3IP	RAB3A interacting protein isoform A	NM_001024647	0,38	4
miR-146a*G	104	RAB18	RAB18 - member RAS oncogene family	NM_021252	0,38	2
miR-146a*G	104	LRCH2	leucine-rich repeats and calponin homology (CH)	NM_020871	0,38	2
miR-146a*G	104	RAB3IP	RAB3A interacting protein isoform beta 1	NM_175624	0,38	4
miR-146a*G	104	SPG20	spastic paraplegia 20	NM_015087	0,38	2
miR-146a*G	104	FAM122B	hypothetical protein LOC159090	NM_145284	0,38	3
miR-146a*G	112	IL20	interleukin 20 precursor	NM_018724	0,38	2
miR-146a*G	112	PTAR1	protein prenyltransferase alpha subunit repeat	NM_001099666	0,38	2
miR-146a*G	112	CNBP	CCHC-type zinc finger - nucleic acid binding	NM_003418	0,38	2
miR-146a*G	112	CNOT4	CCR4-NOT transcription complex - subunit 4	NM_013316	0,38	2
miR-146a*G	112	CAMSAP1L1	calmodulin regulated spectrin-associated protein	NM_203459	0,38	2
miR-146a*G	117	AGPAT4	1-acylglycerol-3-phosphate O-acyltransferase 4	NM_020133	0,38	5
miR-146a*G	118	TMTC2	transmembrane and tetratricopeptide repeat	NM_152588	0,38	2
miR-146a*G	118	ARL15	ADP-ribosylation factor-like 15	NM_019087	0,38	2
miR-146a*G	120	SESN1	sestrin 1	NM_014454	0,38	2
miR-146a*G	120	CNGA3	cyclic nucleotide gated channel alpha 3 isoform	NM_001298	0,38	3
miR-146a*G	122	PGAP1	GPI deacylase	NM_024989	0,37	3
miR-146a*G	123	NEDD4	neural precursor cell expressed - developmentally	NM_198400	0,37	2
miR-146a*G	124	C18orf25	ARKadia-like 1 isoform a	NM_145055	0,37	3

miR-146a*G	125	PANX1	pannexin 1	NM_015368	0,37	3
miR-146a*G	125	COL8A2	collagen - type VIII - alpha 2	NM_005202	0,37	3
miR-146a*G	127	LOXL4	lysyl oxidase-like 4 precursor	NM_032211	0,37	2
miR-146a*G	128	GNG12	G-protein gamma-12 subunit	NM_018841	0,37	2
miR-146a*G	128	C2orf56	hypothetical protein LOC55471 isoform 1	NM_144736	0,37	2
miR-146a*G	130	ZNF652	zinc finger protein 652	NM_014897	0,37	3
miR-146a*G	131	RICTOR	rapamycin-insensitive companion of mTOR	NM_152756	0,37	2
miR-146a*G	131	CNOT6L	CCR4-NOT transcription complex - subunit 6-like	NM_144571	0,37	2
miR-146a*G	131	H2AFJ	H2A histone family - member J	NM_177925	0,37	4
miR-146a*G	131	FYTTD1	forty-two-three domain containing 1 isoform 1	NM_032288	0,37	2
miR-146a*G	135	NR2C2	nuclear receptor subfamily 2 - group C - member 2	NM_003298	0,36	4
miR-146a*G	136	MET	met proto-oncogene precursor	NM_000245	0,36	3
miR-146a*G	136	NTRK2	neurotrophic tyrosine kinase - receptor - type 2	NM_001018065	0,36	3
miR-146a*G	136	IKBKB	inhibitor of kappa light polypeptide gene	NM_001556	0,36	3
miR-146a*G	136	COBL	cordon-bleu homolog	NM_015198	0,36	4
miR-146a*G	140	USP31	ubiquitin specific peptidase 31	NM_020718	0,36	3
miR-146a*G	140	TAOK3	TAO kinase 3	NM_016281	0,36	3
miR-146a*G	140	GLCCI1	glucocorticoid induced transcript 1	NM_138426	0,36	2
miR-146a*G	140	CCDC4	coiled-coil domain containing 4	NM_207406	0,36	3
miR-146a*G	140	PI15	protease inhibitor 15 preproprotein	NM_015886	0,36	2
miR-146a*G	145	WNK3	WNK lysine deficient protein kinase 3 isoform 1	NM_020922	0,36	3
miR-146a*G	146	ETF1	eukaryotic translation termination factor 1	NM_004730	0,36	3
miR-146a*G	147	RAP2A	RAP2A - member of RAS oncogene family	NM_021033	0,36	3
miR-146a*G	148	DRP2	dystrophin related protein 2	NM_001939	0,36	5
miR-146a*G	149	PIPOX	L-pipecolic acid oxidase	NM_016518	0,36	2
miR-146a*G	150	ALG9	asparagine-linked glycosylation 9 protein	NM_024740	0,36	5
miR-146a*G	150	MYT1	myelin transcription factor 1	NM_004535	0,36	4
miR-146a*G	152	USP24	ubiquitin specific protease 24	NM_015306	0,36	2
miR-146a*G	153	NF2	neurofibromin 2 isoform 7	NM_181830	0,35	4
miR-146a*G	153	NF2	neurofibromin 2 isoform 2	NM_181832	0,35	4
miR-146a*G	153	NF2	neurofibromin 2 isoform 1	NM_000268	0,35	4
miR-146a*G	156	SH3GL2	SH3-domain GRB2-like 2	NM_003026	0,35	2
miR-146a*G	157	PPP1R12A	protein phosphatase 1 - regulatory (inhibitor)	NM_002480	0,35	2

miR-146a*G	157	ASXL2	additional sex combs like 2	NM_018263	0,35	2
miR-146a*G	157	KLF10	Kruppel-like factor 10 isoform b	NM_001032282	0,35	2
miR-146a*G	157	FGF5	fibroblast growth factor 5 isoform 1 precursor	NM_004464	0,35	2
miR-146a*G	157	KLF10	Kruppel-like factor 10 isoform a	NM_005655	0,35	2
miR-146a*G	157	FGF5	fibroblast growth factor 5 isoform 2 precursor	NM_033143	0,35	2

Target genes predicted for miR-146a*C

microRNA	Rank	GeneName	Gene/Isoform Description	Refseq ID	TargetRank Score	Seed matches
miR-146a*C	1	FLJ25778	hypothetical protein LOC254048	NM_173569	1,23	8
miR-146a*C	2	IL17RD	interleukin 17 receptor D isoform hSef-b	NM_017563	0,99	8
miR-146a*C	3	RIOK3	sudD suppressor of bimD6 homolog	NM_003831	0,96	3
miR-146a*C	4	PRX	periaxin isoform 1	NM_020956	0,92	10
miR-146a*C	5	SH3BGRL2	SH3 domain binding glutamic acid-rich protein	NM_031469	0,89	8
miR-146a*C	6	ZHX3	zinc fingers and homeoboxes 3	NM_015035	0,85	7
miR-146a*C	7	KLHL24	DRE1 protein	NM_017644	0,82	3
miR-146a*C	8	CPLX2	complexin 2	NM_001008220	0,81	5
miR-146a*C	9	HMGCR	3-hydroxy-3-methylglutaryl-Coenzyme A reductase	NM_000859	0,80	5
miR-146a*C	10	PCDH17	protocadherin 17 precursor	NM_001040429	0,73	4
miR-146a*C	11	LARP4	c-Mpl binding protein isoform c	NM_199190	0,73	4
miR-146a*C	12	VANGL1	vang-like 1	NM_138959	0,70	5
miR-146a*C	13	KLF12	Kruppel-like factor 12	NM_007249	0,70	8
miR-146a*C	14	BNC2	basonuclin 2	NM_017637	0,69	7
miR-146a*C	15	IKZF2	helios isoform 1	NM_016260	0,68	5
miR-146a*C	16	ZC3HAV1	zinc finger antiviral protein isoform 1	NM_020119	0,67	6
miR-146a*C	17	FOXC1	forkhead box C1	NM_001453	0,67	3
miR-146a*C	18	PLEKHA7	pleckstrin homology domain containing - family A	NM_175058	0,67	6
miR-146a*C	19	OSBPL3	oxysterol-binding protein-like protein 3 isoform	NM_015550	0,66	3
miR-146a*C	20	PLCXD3	phosphatidylinositol-specific phospholipase C - X		0,62	3

				NM_001005473		
miR-146a*C	21	TNKS	tankyrase - TRF1-interacting ankyrin-related	NM_003747	0,62	4
miR-146a*C	22	GABRB2	gamma-aminobutyric acid (GABA) A receptor - beta	NM_021911	0,61	6
miR-146a*C	23	TTC14	tetratricopeptide repeat domain 14 isoform b	NM_001042601	0,60	3
miR-146a*C	24	SARM1	sterile alpha and TIR motif containing 1	NM_015077	0,59	7
miR-146a*C	25	TRIM33	tripartite motif-containing 33 protein isoform	NM_033020	0,59	2
miR-146a*C	26	CP	ceruloplasmin precursor	NM_000096	0,58	3
miR-146a*C	26	SLC6A15	solute carrier family 6 - member 15 isoform 1	NM_182767	0,58	4
miR-146a*C	28	NSUN7	NOL1/NOP2/Sun domain family - member 7	NM_024677	0,57	4
miR-146a*C	29	ARHGEF12	Rho guanine nucleotide exchange factor (GEF) 12	NM_015313	0,57	4
miR-146a*C	30	MEX3A	MEX3A protein	NM_001093725	0,56	4
miR-146a*C	31	MARCH6	membrane-associated ring finger (C3HC4) 6	NM_005885	0,56	3
miR-146a*C	32	ZNF100	zinc finger protein 100	NM_173531	0,56	5
miR-146a*C	33	MLH3	mutL homolog 3 isoform 2	NM_014381	0,56	6
miR-146a*C	34	LIN28B	lin-28 homolog B	NM_001004317	0,56	3
miR-146a*C	35	SPIN1	spindlin	NM_006717	0,55	5
miR-146a*C	36	FLJ38482	hypothetical protein LOC201931	NM_001100389	0,54	4
miR-146a*C	37	AHCYL1	S-adenosylhomocysteine hydrolase-like 1	NM_006621	0,54	4
miR-146a*C	38	AVPR1A	arginine vasopressin receptor 1A	NM_000706	0,54	2
miR-146a*C	39	ATP6V1C2	vacuolar H+ ATPase C2 isoform a	NM_001039362	0,54	3
miR-146a*C	40	NRCAM	neuronal cell adhesion molecule isoform B	NM_005010	0,53	3
miR-146a*C	41	KPNA1	karyopherin alpha 1	NM_002264	0,53	3
miR-146a*C	42	OPCML	opioid binding protein/cell adhesion	NM_001012393	0,53	3
miR-146a*C	43	PODXL	podocalyxin-like isoform 1 precursor	NM_001018111	0,53	4
miR-146a*C	44	SLC24A4	solute carrier family 24 member 4 isoform 2	NM_153647	0,53	3
miR-146a*C	45	GABRA4	gamma-aminobutyric acid A receptor - alpha 4	NM_000809	0,52	6
miR-146a*C	46	DDX3X	DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 3	NM_001356	0,52	2
miR-146a*C	47	SOBP	sine oculis binding protein homolog	NM_018013	0,52	4

miR-146a*C	48	HABP2	hyaluronan binding protein 2	NM_004132	0,52	4
miR-146a*C	49	UBFD1	ubiquitin-binding protein homolog	NM_019116	0,52	5
miR-146a*C	50	BTBD7	BTB (POZ) domain containing 7 isoform 1	NM_001002860	0,51	3
miR-146a*C	51	BCAT1	branched chain aminotransferase 1 - cytosolic	NM_005504	0,51	4
miR-146a*C	52	TRAF3IP1	TNF receptor-associated factor 3 interacting	NM_015650	0,51	2
miR-146a*C	52	MTX3	metaxin 3	NM_001010891	0,51	3
miR-146a*C	54	KIAA1909	hypothetical protein LOC153478	NM_052909	0,50	11
miR-146a*C	55	MAPK1	mitogen-activated protein kinase 1	NM_002745	0,50	4
miR-146a*C	56	PRKAB2	AMP-activated protein kinase beta 2	NM_005399	0,50	3
miR-146a*C	57	TMEM154	hypothetical protein LOC201799	NM_152680	0,49	4
miR-146a*C	58	SH3GLB1	SH3-containing protein SH3GLB1	NM_016009	0,49	2
miR-146a*C	59	XPO4	exportin 4	NM_022459	0,49	3
miR-146a*C	60	SNX27	sorting nexin family member 27	NM_030918	0,49	4
miR-146a*C	61	C14orf129	hypothetical protein LOC51527	NM_016472	0,48	2
miR-146a*C	61	C1orf124	hypothetical protein LOC83932 isoform b	NM_001010984	0,48	5
miR-146a*C	63	ATXN1	ataxin 1	NM_000332	0,48	4
miR-146a*C	64	PPARA	peroxisome proliferative activated receptor -	NM_005036	0,48	5
miR-146a*C	65	CXCR7	chemokine orphan receptor 1	NM_020311	0,48	3
miR-146a*C	66	CCDC93	coiled-coil domain containing 93	NM_019044	0,48	6
miR-146a*C	66	SERTAD2	SERTA domain containing 2	NM_014755	0,48	2
miR-146a*C	68	NNT	nicotinamide nucleotide transhydrogenase	NM_182977	0,48	2
miR-146a*C	69	SPRED1	sprouty-related protein 1 with EVH-1 domain	NM_152594	0,47	2
miR-146a*C	69	ARID4A	retinoblastoma-binding protein 1 isoform II	NM_023000	0,47	3
miR-146a*C	69	LOC153364	similar to metallo-beta-lactamase superfamily	NM_203406	0,47	3
miR-146a*C	69	NFAT5	nuclear factor of activated T-cells 5 isoform c	NM_006599	0,47	3
miR-146a*C	73	HUNK	hormonally upregulated Neu-associated kinase	NM_014586	0,47	6
miR-146a*C	74	TBC1D4	TBC1 domain family - member 4	NM_014832	0,47	3
miR-146a*C	75	TMEPAI	transmembrane prostate androgen-induced protein	NM_020182	0,47	3
miR-146a*C	76	CNR1	central cannabinoid receptor isoform b	NM_033181	0,47	5
miR-146a*C	77	FMO2	flavin containing monooxygenase 2	NM_001460	0,47	3
miR-146a*C	78	STK4	serine/threonine kinase 4	NM_006282	0,47	6

miR-146a*C	79	ERC1	RAB6-interacting protein 2 isoform beta	NM_178037	0,47	4
miR-146a*C	80	C1orf21	chromosome 1 open reading frame 21	NM_030806	0,46	6
miR-146a*C	81	MON2	MON2 homolog	NM_015026	0,46	2
miR-146a*C	81	UACA	uveal autoantigen with coiled-coil domains and	NM_001008224	0,46	2
miR-146a*C	83	SH3PXD2A	SH3 multiple domains 1	NM_014631	0,46	9
miR-146a*C	84	WDR7	rabconnectin-3 beta isoform 2	NM_052834	0,46	3
miR-146a*C	85	IGSF3	immunoglobulin superfamily - member 3 isoform 2	NM_001007237	0,46	2
miR-146a*C	86	CREBZF	HCF-binding transcription factor Zhangfei	NM_001039618	0,46	3
miR-146a*C	86	KIAA1199	KIAA1199	NM_018689	0,46	6
miR-146a*C	88	DTNA	dystrobrevin alpha isoform 2	NM_032975	0,46	4
miR-146a*C	89	FOXN2	T-cell leukemia virus enhancer factor	NM_002158	0,45	2
miR-146a*C	90	CGGBP1	CGG triplet repeat binding protein 1	NM_001008390	0,45	2
miR-146a*C	91	STEAP2	six transmembrane epithelial antigen of the	NM_152999	0,45	2
miR-146a*C	92	ELAVL1	ELAV-like 1	NM_001419	0,45	3
miR-146a*C	93	B3GNT5	UDP-GlcNAc:betaGal	NM_032047	0,44	3
miR-146a*C	94	ENTPD1	ectonucleoside triphosphate diphosphohydrolase 1	NM_001098175	0,44	3
miR-146a*C	95	SCAMP1	secretory carrier membrane protein 1	NM_004866	0,44	2
miR-146a*C	96	NFASC	neurofascin precursor	NM_015090	0,44	5
miR-146a*C	97	PCDH19	protocadherin 19	NM_020766	0,44	2
miR-146a*C	97	YTHDF2	high glucose-regulated protein 8	NM_016258	0,44	2
miR-146a*C	97	CSNK1G1	casein kinase 1 - gamma 1	NM_022048	0,44	6
miR-146a*C	100	SLC1A2	excitatory amino acid transporter 2	NM_004171	0,44	5
miR-146a*C	100	CLIC5	chloride intracellular channel 5	NM_016929	0,44	4
miR-146a*C	102	DUSP13	muscle-restricted dual specificity phosphatase	NM_001007271	0,44	2
miR-146a*C	103	COMMD8	COMM domain containing 8	NM_017845	0,43	2
miR-146a*C	104	TMCC3	transmembrane and coiled-coil domain family 3	NM_020698	0,43	3
miR-146a*C	105	SSH2	slingshot 2	NM_033389	0,43	4
miR-146a*C	106	OPHN1	oligophrenin 1	NM_002547	0,43	4
miR-146a*C	107	PCGF5	polycomb group ring finger 5	NM_032373	0,43	2

miR-146a*C	108	ERC1	RAB6-interacting protein 2 isoform delta	NM_178039	0,43	3
miR-146a*C	108	SLC5A3	solute carrier family 5 (inositol transporters) -	NM_006933	0,43	5
miR-146a*C	110	OPRK1	opioid receptor - kappa 1	NM_000912	0,42	4
miR-146a*C	111	RAG1	recombination activating gene 1	NM_000448	0,42	2
miR-146a*C	112	HLF	hepatic leukemia factor	NM_002126	0,42	2
miR-146a*C	113	EXOC5	SEC10 protein	NM_006544	0,42	3
miR-146a*C	113	C20orf197	hypothetical protein LOC284756	NM_173644	0,42	2
miR-146a*C	113	ZAK	MLK-related kinase isoform 2	NM_133646	0,42	3
miR-146a*C	116	TMEM30A	transmembrane protein 30A	NM_018247	0,42	3
miR-146a*C	117	ZNF781	zinc finger protein 781	NM_152605	0,42	3
miR-146a*C	117	SRL	sarcalumenin	NM_001098814	0,42	3
miR-146a*C	119	FBXO33	F-box protein 33	NM_203301	0,42	3
miR-146a*C	120	AFAP1	actin filament associated protein 1	NM_021638	0,42	4
miR-146a*C	121	LOC283514	hypothetical protein LOC283514	NM_198849	0,41	6
miR-146a*C	122	WARS2	mitochondrial tryptophanyl tRNA synthetase 2	NM_201263	0,41	2
miR-146a*C	122	WARS2	mitochondrial tryptophanyl tRNA synthetase 2	NM_015836	0,41	2
miR-146a*C	124	CLCN5	chloride channel 5	NM_000084	0,41	5
miR-146a*C	125	NAT11	N-acetyltransferase 11	NM_024771	0,41	5
miR-146a*C	126	FOXO3	forkhead box O3A	NM_201559	0,41	3
miR-146a*C	127	HHEX	hematopoietically expressed homeobox	NM_002729	0,41	3
miR-146a*C	128	ZNF273	zinc finger protein 273	NM_021148	0,41	4
miR-146a*C	129	CLCN6	chloride channel 6 isoform CIC-6a	NM_001286	0,41	5
miR-146a*C	129	SLC6A2	solute carrier family 6 member 2	NM_001043	0,41	3
miR-146a*C	131	ADNP2	ADNP homeobox 2	NM_014913	0,40	3
miR-146a*C	132	HNRPA0	heterogeneous nuclear ribonucleoprotein A0	NM_006805	0,40	2
miR-146a*C	133	UNC13A	unc-13 homolog A	NM_001080421	0,40	4
miR-146a*C	134	LITAF	lipopolysaccharide-induced TNF factor	NM_004862	0,40	3
miR-146a*C	135	CD44	CD44 antigen isoform 3 precursor	NM_001001390	0,40	5
miR-146a*C	135	CD44	CD44 antigen isoform 5 precursor	NM_001001392	0,40	5
miR-146a*C	135	C6orf62	chromosome 6 open reading frame 62	NM_030939	0,40	2
miR-146a*C	138	MITF	microphthalmia-associated transcription factor	NM_000248	0,40	2

miR-146a*C	139	ANKRD22	ankyrin repeat domain 22	NM_144590	0,40	3
miR-146a*C	140	GALNT17	polypeptide N-acetylgalactosaminyltransferase	NM_001034845	0,40	2
miR-146a*C	141	WDHD1	WD repeat and HMG-box DNA binding protein 1	NM_007086	0,39	2
miR-146a*C	141	UNC13B	UNC13 (C. elegans)-like	NM_006377	0,39	2
miR-146a*C	141	RC3H1	roquin	NM_172071	0,39	2
miR-146a*C	144	MANEA	mannosidase - endo-alpha	NM_024641	0,39	4
miR-146a*C	145	PPM1F	protein phosphatase 1F	NM_014634	0,39	4
miR-146a*C	146	SRGAP3	SLIT-ROBO Rho GTPase activating protein 3	NM_014850	0,39	4
miR-146a*C	146	TRAK1	OGT(O-Glc-NAc transferase)-interacting protein	NM_001042646	0,39	2
miR-146a*C	148	SLC38A1	amino acid transporter system A1	NM_030674	0,39	5
miR-146a*C	149	ZNF618	zinc finger protein 618	NM_133374	0,39	3
miR-146a*C	149	PEX11B	peroxisomal biogenesis factor 11B	NM_003846	0,39	2
miR-146a*C	149	TAF5L	PCAF associated factor 65 beta isoform a	NM_014409	0,39	2
miR-146a*C	149	FZD4	frizzled 4	NM_012193	0,39	2
miR-146a*C	153	SELT	selenoprotein T	NM_016275	0,39	2
miR-146a*C	153	PDS5A	PDS5 - regulator of cohesion maintenance - homolog	NM_015200	0,39	4
miR-146a*C	153	CLLU1	chronic lymphocytic leukemia up-regulated 1	NM_001025233	0,39	5
miR-146a*C	156	SORT1	sortilin 1 preproprotein	NM_002959	0,39	3
miR-146a*C	157	ARHGAP26	GTPase regulator associated with the focal	NM_015071	0,39	4
miR-146a*C	158	ATG2B	ATG2 autophagy related 2 homolog B	NM_018036	0,39	7
miR-146a*C	159	ZBED4	zinc finger - BED-type containing 4	NM_014838	0,38	3
miR-146a*C	159	TRDMT1	tRNA aspartic acid methyltransferase 1 isoform	NM_004412	0,38	3
miR-146a*C	159	TLL2	tolloid-like 2	NM_012465	0,38	3
miR-146a*C	162	NPAS2	neuronal PAS domain protein 2	NM_002518	0,38	3
miR-146a*C	163	CNTD1	cyclin N-terminal domain containing 1	NM_173478	0,38	2
miR-146a*C	164	ATCB10	ATP-binding cassette - sub-family B - member 10	NM_012089	0,38	2
miR-146a*C	164	SET	SET translocation (myeloid leukemia-associated)	NM_003011	0,38	2
miR-146a*C	164	MAPRE1	microtubule-associated protein - RP/EB family -	NM_012325	0,38	2
miR-146a*C	164	FCHO2	FCH domain only 2	NM_138782	0,38	2
miR-146a*C	168	ALCAM	activated leukocyte cell adhesion molecule	NM_001627	0,38	2
miR-146a*C	168	CFL2	cofilin 2	NM_021914	0,38	2

miR-146a*C	168	PPP2R5C	gamma isoform of regulatory subunit B56 - protein	NM_002719	0,38	2
miR-146a*C	168	MME	membrane metallo-endopeptidase	NM_000902	0,38	2
miR-146a*C	168	VAPB	VAMP-associated protein B/C	NM_004738	0,38	2
miR-146a*C	168	HIF1A	hypoxia-inducible factor 1 - alpha subunit	NM_181054	0,38	2
miR-146a*C	168	MAP3K7IP3	mitogen-activated protein kinase kinase kinase 7	NM_152787	0,38	2
miR-146a*C	168	DLG2	chapsyn-110	NM_001364	0,38	2
miR-146a*C	168	RAB22A	RAS-related protein RAB-22A	NM_020673	0,38	4
miR-146a*C	168	KIAA0652	hypothetical protein LOC9776	NM_014741	0,38	2
miR-146a*C	178	BAZ2A	bromodomain adjacent to zinc finger domain - 2A	NM_013449	0,38	5
miR-146a*C	179	KIAA1549	hypothetical protein LOC57670	NM_020910	0,38	3
miR-146a*C	179	HISPPD1	Histidine acid phosphatase domain containing 1	NM_015216	0,38	2
miR-146a*C	179	TCF3	transcription factor 3	NM_003200	0,38	2
miR-146a*C	182	LSM14A	LSM14 homolog A	NM_015578	0,37	3
miR-146a*C	183	CHST3	carbohydrate (chondroitin 6) sulfotransferase 3	NM_004273	0,37	3
miR-146a*C	183	C14orf32	MAPK-interacting and spindle-stabilizing	NM_144578	0,37	4
miR-146a*C	183	KDEL3	KDEL receptor 3 isoform a	NM_006855	0,37	2
miR-146a*C	183	FLJ20309	hypothetical protein LOC54891	NM_017759	0,37	4
miR-146a*C	187	ADAMTS5	ADAM metalloproteinase with thrombospondin type 1	NM_007038	0,37	4
miR-146a*C	188	UST	uronyl-2-sulfotransferase	NM_005715	0,37	3
miR-146a*C	189	C10orf46	chromosome 10 open reading frame 46	NM_153810	0,37	3
miR-146a*C	190	KTN1	kinectin 1 isoform a	NM_182926	0,37	2
miR-146a*C	191	SEMA3E	semaphorin 3E	NM_012431	0,37	2
miR-146a*C	192	C8orf46	hypothetical protein LOC254778	NM_152765	0,37	2
miR-146a*C	193	SSTR2	somatostatin receptor 2	NM_001050	0,37	2
miR-146a*C	193	SLC35A3	solute carrier family 35	NM_012243	0,37	2
miR-146a*C	193	TFEC	transcription factor EC isoform b	NM_001018058	0,37	2
miR-146a*C	193	ARMC8	armadillo repeat containing 8 isoform 3	NM_213654	0,37	2
miR-146a*C	197	LYK5	protein kinase LYK5 isoform 3	NM_153335	0,37	3
miR-146a*C	197	NTRK2	neurotrophic tyrosine kinase - receptor - type 2	NM_001007097	0,37	3
miR-146a*C	199	KCTD2	potassium channel tetramerisation domain	NM_015353	0,36	3
miR-146a*C	200	AFF1	myeloid/lymphoid or mixed-lineage leukemia	NM_005935	0,36	5
miR-146a*C	201	EDA	ectodysplasin A isoform EDA-A2		0,36	3

				NM_001005609		
miR-146a*C	202	ETV1	ets variant gene 1	NM_004956	0,36	2
miR-146a*C	203	TIPARP	TCDD-inducible poly(ADP-ribose) polymerase	NM_015508	0,36	2
miR-146a*C	203	SELI	selenoprotein I	NM_033505	0,36	4
miR-146a*C	205	C7orf29	hypothetical protein LOC113763	NM_138434	0,36	3
miR-146a*C	205	ZKSCAN1	zinc finger protein 36	NM_003439	0,36	2
miR-146a*C	207	ZNF592	zinc finger protein 592	NM_014630	0,36	4
miR-146a*C	208	ITPKC	inositol 1 -4 -5-trisphosphate 3-kinase C	NM_025194	0,36	6
miR-146a*C	209	FLJ16793	hypothetical protein LOC645121	NM_001039780	0,36	2
miR-146a*C	210	ZFP91	zinc finger protein 91	NM_053023	0,35	2
miR-146a*C	211	LRRC15	leucine rich repeat containing 15	NM_130830	0,35	4
miR-146a*C	212	ZNF257	zinc finger protein 257	NM_033468	0,35	3
miR-146a*C	212	ZNF721	zinc finger protein 721	NM_133474	0,35	5
miR-146a*C	214	ZNF395	zinc finger protein 395	NM_018660	0,35	4