

Predictive microRNA markers of oral leukoplakia that progress to cancer

Supplemental Table 1. Conserved Genes Potentially Targeted by miRNA's -129-2-3p, 204-5p, 208b-3p and 3065-5p

Gene ID ^a	Gene Name	PANTHER Family/Subfamily	PANTHER Protein Class
COLQ	Acetylcholinesterase collagenic tail peptide	ACETYLCHOLINESTERASE COLLAGENIC TAIL PEPTIDE (PTHR24023:SF6)	Transporter, surfactant, receptor, extracellular matrix structural protein, antibacterial response protein
REEP1	Receptor expression-enhancing protein 1	RECEPTOR EXPRESSION-ENHANCING PROTEIN 1 (PTHR12300:SF33)	Transporter, receptor
DDX5	Probable ATP-dependent RNA helicase DDX5	ATP-DEPENDENT RNA HELICASE DDX5-RELATED (PTHR24031:SF219)	RNA helicase
FZD8	Frizzled-8	FRIZZLED-8 (PTHR11309:SF89)	signaling molecule, G-protein coupled receptor
PURB	Transcriptional activator protein Pur-beta	TRANSCRIPTIONAL ACTIVATOR PROTEIN PUR-BETA (PTHR12611:SF4)	transcription factor, DNA binding protein
LCOR	Ligand-dependent corepressor	LIGAND-DEPENDENT COREPRESSOR (PTHR21545:SF14)	DNA-directed RNA polymerase
TMBIM6	Bax inhibitor 1	BAX INHIBITOR 1 (PTHR23291:SF34)	-
SCN4A	Sodium channel protein type 4 subunit alpha	SODIUM CHANNEL PROTEIN TYPE 4 SUBUNIT ALPHA (PTHR10037:SF223)	voltage-gated calcium channel
PACS2	Phosphofurin acidic cluster sorting protein 2	PHOSPHOFURIN ACIDIC CLUSTER SORTING PROTEIN 2 (PTHR13280:SF15)	-
ASB7	Ankyrin repeat and SOCS box protein 7	ANKYRIN REPEAT AND SOCS BOX PROTEIN 7 (PTHR24123:SF25)	-
PDCD4	Programmed cell death protein 4	PROGRAMMED CELL DEATH PROTEIN 4 (PTHR12626:SF3)	translation elongation factor
LRP6	Low-density lipoprotein receptor-related protein 6	LOW-DENSITY LIPOPROTEIN RECEPTOR-RELATED PROTEIN 6 (PTHR10529:SF109)	Receptor, extracellular matrix glycoprotein
PHF21B	PHD finger protein 21B	PHD FINGER PROTEIN 21B (PTHR24102:SF18)	transcription cofactor, ubiquitin-protein ligase
SCN2B	Sodium channel subunit beta-2	SODIUM CHANNEL SUBUNIT BETA-2 (PTHR13869:SF3)	voltage-gated sodium channel, voltage-gated ion channel, cell adhesion molecule
NAV2	Neuron navigator 2	NEURON NAVIGATOR 2 (PTHR12784:SF6)	-
VAV3	Guanine nucleotide exchange factor VAV3	GUANINE NUCLEOTIDE EXCHANGE FACTOR VAV3 (PTHR22826:SF97)	signaling molecule, guanyl-nucleotide exchange factor
SNRK	SNF-related serine/threonine-protein kinase	SNF-RELATED SERINE/THREONINE-PROTEIN KINASE (PTHR24343:SF201)	non-receptor serine/threonine protein kinase
GATA4	Transcription factor GATA-4	TRANSCRIPTION FACTOR GATA-4 (PTHR10071:SF154)	zinc finger transcription factor, nuclease
AAK1	AP2-associated protein kinase 1	AP2-ASSOCIATED PROTEIN KINASE 1 (PTHR22967:SF57)	non-receptor serine/threonine protein kinase
TBC1D22B	TBC1 domain family member 22B	TBC1 DOMAIN FAMILY MEMBER 22B (PTHR22957:SF321)	Hydrolase, G-protein modulator
FAM110B	Protein FAM110B	PROTEIN FAM110B (PTHR14758:SF2)	-
SOX6	Transcription factor SOX-6	TRANSCRIPTION FACTOR SOX-6 (PTHR10270:SF89)	HMG box transcription factor, nucleic acid binding
PAK2	Serine/threonine-protein kinase PAK 2	SERINE/THREONINE-PROTEIN KINASE PAK 2 (PTHR24361:SF281)	-
ZNF704	Zinc finger protein 704	ZINC FINGER PROTEIN 704 (PTHR13006:SF7)	transcription cofactor
TRAF4	TNF receptor-associated factor 4	TNF RECEPTOR-ASSOCIATED FACTOR 4 (PTHR10131:SF89)	signaling molecule
USP13	Ubiquitin carboxyl-terminal hydrolase 13	-	-
DYNLL2	Dynein light chain 2, cytoplasmic	DYNEIN LIGHT CHAIN 2, CYTOPLASMIC (PTHR11886:SF54)	enzyme modulator, microtubule family cytoskeletal protein
ANKRD52	Serine/threonine-protein phosphatase 6 regulatory ankyrin repeat subunit C	SERINE/THREONINE-PROTEIN PHOSPHATASE 6 REGULATORY ANKYRIN REPEAT SUBUNIT C (PTHR24158:SF17)	-
MMP16	Matrix metalloproteinase-16	MATRIX METALLOPROTEINASE-16 (PTHR10201:SF26)	-

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DNAJC14	DnaJ homolog subfamily C member 14	DNAJ HOMOLOG SUBFAMILY C MEMBER 14 (PTHR24078:SF191)	-
NMU	Neuromedin-U	NEUROMEDIN-U (PTHR15390:SF0)	-
GLS	Glutaminase kidney isoform, mitochondrial	GLUTAMINASE KIDNEY ISOFORM, MITOCHONDRIAL (PTHR12544:SF30)	hydrolase
AMER2	APC membrane recruitment protein 2	APC MEMBRANE RECRUITMENT PROTEIN 2 (PTHR22237:SF1)	-
ZNF431	Zinc finger protein 431	ZINC FINGER PROTEIN 431 (PTHR24384:SF41)	KRAB box transcription factor
HMGB1	High mobility group protein B1	HIGH MOBILITY GROUP PROTEIN B1-RELATED (PTHR13711:SF164)	HMG box transcription factor, signaling molecule chromatin/ chromatin-binding protein
KLF12	Krüppel-like factor 12	-	-
SOX7	Transcription factor SOX-7	TRANSCRIPTION FACTOR SOX-7 (PTHR10270:SF210)	HMG box transcription factor, nucleic acid binding
LARP7	La-related protein 7	LA-RELATED PROTEIN 7 (PTHR22792:SF66)	ribonucleoprotein
CDC42	Cell division control protein 42 homolog	CELL DIVISION CONTROL PROTEIN 42 HOMO-LOG (PTHR24072:SF136)	small GTPase
TMSB4Y	Thymosin beta-4, Y-chromosomal	THYMOSIN BETA-4, Y-CHROMOSOMAL (PTHR12021:SF8)	-
KIAA1024L	UPF0258 protein KIAA1024-like	UPF0258 PROTEIN KIAA1024-LIKE (PTHR31530:SF4)	-
UHMK1	Serine/threonine-protein kinase Kist	SERINE/THREONINE-PROTEIN KINASE KIST (PTHR23139:SF14)	mRNA splicing factor
NHLRC2	NHL repeat-containing protein 2	NHL REPEAT-CONTAINING PROTEIN 2 (PTHR13833:SF49)	-
TCF4	Transcription factor 4	TRANSCRIPTION FACTOR 4 (PTHR11793:SF10)	basic helix-loop-helix transcrip- tion factor, nucleic acid binding
TM2D1	TM2 domain-containing protein 1	TM2 DOMAIN-CONTAINING PROTEIN 1 (PTHR21016:SF1)	-
ZNF66	Putative zinc finger protein 66	ZINC FINGER PROTEIN 66-RELATED (PTHR24384:SF105)	KRAB box transcription factor
TPD52L3	Tumor protein D55	TUMOR PROTEIN D55 (PTHR19307:SF5)	-
XKR4	XK-related protein 4	XK-RELATED PROTEIN 4 (PTHR32129:SF14)	-
KIAA0101	PCNA-associated factor	PCNA-ASSOCIATED FACTOR (PTHR15679:SF8)	-
TRUB1	Probable tRNA pseudouridine synthase 1	TRNA PSEUDOURIDINE SYNTHASE 1-RELATED (PTHR13767:SF2)	nucleic acid binding, lyase isomerase
PCDH11X	Protocadherin-11 X-linked	PROTODADHERIN-11 X-LINKED-RELATED (PTHR24027:SF15)	cadherin
LYSMD3	LysM and putative peptidoglycan-binding domain-containing protein 3	AND PUTATIVE PEPTIDOGLYCAN-BINDING DOMAIN-CONTAINING PROTEIN 3-RELATED (PTHR20932:SF5)	-
HERC5	E3 ISG15-protein ligase HERC5	E3 ISG15-PROTEIN LIGASE HERC5 (PTHR11254:SF344)	ubiquitin-protein ligase
ATF7	Cyclic AMP-dependent transcription factor ATF-7	CYCLIC AMP-DEPENDENT TRANSCRIPTION FAC- TOR ATF-7 (PTHR19304:SF25)	transcription factor, nucleic acid binding
CDK6	Cyclin-dependent kinase 6	CYCLIN-DEPENDENT KINASE 6 (PTHR24056:SF130)	non-receptor serine/threonine protein kinase
FAM46A	Protein FAM46A	PROTEIN FAM46A (PTHR12974:SF25)	-
XPO4	Exportin-4	EXPORTIN-4 (PTHR12596:SF1)	transfer/carrier protein
ZBTB34	Zinc finger and BTB domain-containing protein 34	ZINC FINGER AND BTB DOMAIN-CONTAINING PROTEIN 34 (PTHR24375:SF44)	KRAB box transcription factor
CLDN10	Claudin-10	CLAUDIN-10 (PTHR12002:SF13)	tight junction
WRB	Tail-anchored protein insertion receptor WRB	TAIL-ANCHORED PROTEIN INSERTION RECEPTOR WRB (PTHR11760:SF21)	ribosomal protein
NUDT15	Probable 8-oxo-dGTP diphosphatase NUDT15	8-OXO-DGTP DIPHOSPHATASE NUDT15-RELATED (PTHR16099:SF5)	-
HOPX	Homeodomain-only protein	HOMEODOMAIN-ONLY PROTEIN (PTHR21408:SF1)	-
PMP2	Myelin P2 protein	MYELIN P2 PROTEIN (PTHR11955:SF64)	-
SH2D6	SH2 domain-containing protein 6	SH2 DOMAIN-CONTAINING PROTEIN 6 (PTHR14098:SF16)	signaling molecule
DFFB	DNA fragmentation factor subunit beta	DNAATION FACTOR-RELATED PROTEIN 4 (PTHR13067:SF2)	nuclease

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C1orf192	UPF0740 protein C1orf192	UPF0740 PROTEIN C1ORF192 (PTHR34639:SF1)	-
MRPL16	39S ribosomal protein L16, mitochondrial	39S RIBOSOMAL PROTEIN L16, MITOCHONDRIAL (PTHR12220:SF13)	ribosomal protein
CSRNP3	Cysteine/serine-rich nuclear protein 3	CYSTEINE/SERINE-RICH NUCLEAR PROTEIN 3 (PTHR13580:SF13)	-
EEF1E1	Eukaryotic translation elongation factor 1 epsilon-1	EUKARYOTIC TRANSLATION ELONGATION FACTOR 1 EPSILON-1-RELATED (PTHR11260:SF249)	Transferase, signaling molecule, reductase translation elongation factor, epimerase/racemase, cytoskeletal protein
HIGD1A	HIG1 domain family member 1A, mitochondrial	HIG1 DOMAIN FAMILY MEMBER 1A, MITOCHONDRIAL (PTHR12297:SF5)	-
FBX030	F-box only protein 30	F-BOX ONLY PROTEIN 30 (PTHR15933:SF13)	-
EIF1AX	Eukaryotic translation initiation factor 1A, X-chromosomal	EUKARYOTIC TRANSLATION INITIATION FACTOR 1A, X-CHROMOSOMAL (PTHR21668:SF4)	translation initiation factor
TMEM170B	Transmembrane protein 170B	TRANSMEMBRANE PROTEIN 170B (PTHR22779:SF4)	-
CCDC50	Coiled-coil domain-containing protein 50	COILED-COIL DOMAIN-CONTAINING PROTEIN 50 (PTHR22115:SF1)	-
CBWD1	COBW domain-containing protein 1	COBW DOMAIN-CONTAINING PROTEIN 1-RELATED (PTHR13748:SF38)	-
DUSP23	Dual specificity protein phosphatase 23	DUAL SPECIFICITY PROTEIN PHOSPHATASE 23 (PTHR23339:SF26)	protein phosphatase
CNOT6	CCR4-NOT transcription complex subunit 6	CCR4-NOT TRANSCRIPTION COMPLEX SUBUNIT 6 (PTHR12121:SF33)	Exoribonuclease, nuclease
CCL2	C-C motif chemokine 2	C-C MOTIF CHEMOKINE 2 (PTHR12015:SF98)	chemokine
DUSP18	Dual specificity protein phosphatase 18	DUAL SPECIFICITY PROTEIN PHOSPHATASE 18 (PTHR10159:SF313)	-
NPY5R	Neuropeptide Y receptor type 5	NEUROPEPTIDE Y RECEPTOR TYPE 5 (PTHR24242:SF217)	G-protein coupled receptor
PGAP1	GPI inositol-deacylase	GPI INOSITOL-DEACYLASE (PTHR15495:SF15)	transporter
PPM1A	Protein phosphatase 1A	PROTEIN PHOSPHATASE 1A (PTHR13832:SF262)	protein phosphatase, kinase inhibitor
SPIN4	Spindlin-4	SPINDLIN-4 (PTHR10405:SF9)	-
NFIA	Nuclear factor 1 A-type	NUCLEAR FACTOR 1 A-TYPE (PTHR11492:SF6)	transcription factor, nucleic acid binding
ABCA6	ATP-binding cassette sub-family A member 6	ATP-BINDING CASSETTE SUB-FAMILY A MEMBER 6 (PTHR19229:SF13)	ATP-binding cassette (ABC) transporter
CD9	CD9 antigen	CD9 ANTIGEN (PTHR19282:SF163)	membrane-bound signaling molecule, receptor, cell adhesion molecule
UBL3	Ubiquitin-like protein 3	UBIQUITIN-LIKE PROTEIN 3 (PTHR13169:SF0)	ubiquitin-protein ligase
QKI	Protein quaking	PROTEIN QUAKING (PTHR11208:SF54)	transcription cofactor, mRNA splicing factor
CCDC73	Coiled-coil domain-containing protein 73	COILED-COIL DOMAIN-CONTAINING PROTEIN 73 (PTHR28660:SF1)	-
CSTF2	Cleavage stimulation factor subunit 2	CLEAVAGE STIMULATION FACTOR SUBUNIT 2 (PTHR23139:SF57)	mRNA splicing factor
ZNF460	Zinc finger protein 460	ZINC FINGER PROTEIN 460 (PTHR24384:SF15)	KRAB box transcription factor
SRSF7	Serine/arginine-rich splicing factor 7	-	-
SPAG11A	Sperm-associated antigen 11A	SPERM-ASSOCIATED ANTIGEN 11A (PTHR14081:SF1)	-
GABRA4	Gamma-aminobutyric acid receptor subunit alpha-4	GAMMA-AMINOBTYRIC ACID RECEPTOR SUBUNIT ALPHA-4 (PTHR18945:SF393)	GABA receptor, acetylcholine receptor, GABA receptor
C1QTNF1-AS1	Protein C1QTNF1-AS1	-	-
POU2F1	POU domain, class 2, transcription factor 1	POU DOMAIN, CLASS 2, TRANSCRIPTION FACTOR 1 (PTHR11636:SF47)	homeobox transcription factor
SNX24	Sorting nexin-24	SORTING NEXIN-24 (PTHR15813:SF10)	-
SETD9	SET domain-containing protein 9	SET DOMAIN-CONTAINING PROTEIN 9 (PTHR33524:SF1)	-
RFX7	DNA-binding protein RFX7	DNA-BINDING PROTEIN RFX7 (PTHR12619:SF2)	transcription cofactor, nuclease

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INO80D	INO80 complex subunit D	INO80 COMPLEX SUBUNIT D (PTHR16198:SF2)	-
PAFAH1B2	Platelet-activating factor acetylhydrolase IB subunit beta	PLATELET-ACTIVATING FACTOR ACETYLHYDROLASE IB SUBUNIT BETA (PTHR11852:SF1)	-
STIM2	Stromal interaction molecule 2	STROMAL INTERACTION MOLECULE 2 (PTHR15136:SF2)	-
UBE2E2	Ubiquitin-conjugating enzyme E2 E2	UBIQUITIN-CONJUGATING ENZYME E2 E2 (PTHR24068:SF62)	ligase
ZNF264	Zinc finger protein 264	ZINC FINGER PROTEIN 264 (PTHR24384:SF96)	KRAB box transcription factor
PCDH11Y	Protocadherin-11 Y-linked	PROTODADHERIN-11 X-LINKED-RELATED (PTHR24027:SF15)	cadherin
ST8SIA3	Sia-alpha-2,3-Gal-beta-1,4-GlcNAc-R:alpha 2,8-sialyltransferase	SIA-ALPHA-2,3-GAL-BETA-1,4-GLCNAC-R:ALPHA 2,8-SIALYLTRANSFERASE (PTHR11987:SF36)	-
RBPJ	Recombining binding protein suppressor of hairless	RECOMBINING BINDING PROTEIN SUPPRESSOR OF HAIRLESS (PTHR10665:SF3)	transcription factor, nucleic acid binding
RBMS3	RNA-binding motif, single-stranded-interacting protein 3	RNA-BINDING MOTIF, SINGLE-STRANDED-INTERACTING PROTEIN 3 (PTHR24012:SF473)	-
ZNF573	Zinc finger protein 573	ZINC FINGER PROTEIN 573 (PTHR24377:SF159)	-
FSD1L	FSD1-like protein	FSD1-LIKE PROTEIN (PTHR24099:SF8)	-
RBM7	RNA-binding protein 7	RNA-BINDING PROTEIN 7 (PTHR13798:SF4)	nucleic acid binding
ARRDC3	Arrestin domain-containing protein 3	ARRESTIN DOMAIN-CONTAINING PROTEIN 3 (PTHR11188:SF49)	-
RNASE6	Ribonuclease K6	RIBONUCLEASE K6 (PTHR11437:SF4)	Endoribonuclease, nuclease, hydrolase, enzyme modulator
DERL2	Derlin-2	DERLIN-2 (PTHR11009:SF5)	receptor
ZNF736	Zinc finger protein 736	ZINC FINGER PROTEIN 736-RELATED (PTHR24384:SF98)	KRAB box transcription factor
UBE2W	Ubiquitin-conjugating enzyme E2 W	UBIQUITIN-CONJUGATING ENZYME E2 W (PTHR24067:SF108)	-
SLC25A31	ADP/ATP translocase 4	ADP/ATP TRANSLOCASE 4 (PTHR24089:SF381)	amino acid transporter, mitochondrial carrier protein, transfer/carrier protein, ribosomal protein, calmodulin
UFM1	Ubiquitin-fold modifier 1	UBIQUITIN-FOLD MODIFIER 1 (PTHR15825:SF0)	-
GPRASP2	G-protein coupled receptor-associated sorting protein 2	G-PROTEIN COUPLED RECEPTOR-ASSOCIATED SORTING PROTEIN 2 (PTHR15712:SF10)	-
C16orf72	UPF0472 protein C16orf72	UPF0472 PROTEIN C16ORF72 (PTHR31624:SF3)	-
DNM2	Dynamamin-2	DYNAMIN-2 (PTHR11566:SF23)	Hydrolase, small GTPase, microtubule family cytoskeletal protein
PIK3CB	Phosphatidylinositol 4,5-bisphosphate 3-kinase catalytic subunit beta isoform	PHOSPHATIDYLINOSITOL 4,5-BISPHOSPHATE 3-KINASE CATALYTIC SUBUNIT BETA ISOFORM (PTHR10048:SF33)	kinase
ANKRD13A	Ankyrin repeat domain-containing protein 13A	ANKYRIN REPEAT DOMAIN-CONTAINING PROTEIN 13A (PTHR12447:SF4)	-
NR3C2	Mineralocorticoid receptor	MINERALOCORTICOID RECEPTOR (PTHR24084:SF22)	nuclear hormone receptor, receptor, nucleic acid binding
AP2A2	AP-2 complex subunit alpha-2	AP-2 COMPLEX SUBUNIT ALPHA-2 (PTHR22780:SF24)	transmembrane receptor regulatory/adaptor protein
MMGT1	Membrane magnesium transporter 1	MEMBRANE MAGNESIUM TRANSPORTER 1 (PTHR21181:SF7)	-
SHC1	SHC-transforming protein 1	SHC-TRANSFORMING PROTEIN 1 (PTHR10337:SF2)	signaling molecule
FAM175B	BRISC complex subunit Abro1	BRISC COMPLEX SUBUNIT ABRO1 (PTHR31728:SF3)	-
TMEM64	Transmembrane protein 64	TRANSMEMBRANE PROTEIN 64 (PTHR12677:SF24)	-
ARX	Homeobox protein ARX	HOMEODOMAIN-HELICASE-DNA-BINDING PROTEIN 5 (PTHR10799:SF583)	homeobox transcription factor, DNA binding protein
CHD5	Chromodomain-helicase-DNA-binding protein 5	CHROMODOMAIN-HELICASE-DNA-BINDING PROTEIN 5 (PTHR10799:SF583)	DNA helicase, helicase
GPT2	Alanine aminotransferase 2	ALANINE AMINOTRANSFERASE 2 (PTHR11751:SF311)	transaminase

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VWA8	von Willebrand factor A domain-containing protein 8	VON WILLEBRAND FACTOR A DOMAIN-CONTAINING PROTEIN 8 (PTHR21610:SF9)	-
TPPP	Tubulin polymerization-promoting protein	TUBULIN POLYMERIZATION-PROMOTING PROTEIN (PTHR12932:SF18)	non-motor microtubule binding protein
SLC25A35	Solute carrier family 25 member 35	SOLUTE CARRIER FAMILY 25 MEMBER 35 (PTHR24089:SF274)	amino acid transporter, mitochondrial carrier protein, transfer/carrier protein, ribosomal protein, calmodulin
DNAJC13	DnaJ homolog subfamily C member 13	DNAJ HOMOLOG SUBFAMILY C MEMBER 13 (PTHR24078:SF25)	-
AKAP1	A-kinase anchor protein 1, mitochondrial	A-KINASE ANCHOR PROTEIN 1, MITOCHONDRIAL (PTHR22948:SF18)	signaling molecule, nuclease
HSPH1	Heat shock protein 105 kDa	HEAT SHOCK PROTEIN 105 KDA (PTHR19375:SF18)	Hsp70 family chaperone
FOXC1	Forkhead box protein C1	FORKHEAD BOX PROTEIN C1 (PTHR11829:SF166)	transcription factor, DNA binding protein
EPHA7	Ephrin type-A receptor 7	EPHRIN TYPE-A RECEPTOR 7 (PTHR24416:SF377)	-
RNF217	Probable E3 ubiquitin-protein ligase RNF217	E3 UBIQUITIN-PROTEIN LIGASE RNF217-RELATED (PTHR11685:SF113)	ubiquitin-protein ligase
EZR	Ezrin	EZRIN (PTHR23281:SF13)	actin family cytoskeletal protein
NOVA1	RNA-binding protein Nova-1	RNA-BINDING PROTEIN NOVA-1 (PTHR10288:SF150)	mRNA splicing factor, ribonucleoprotein, enzyme modulator
SGIP1	SH3-containing GRB2-like protein 3-interacting protein 1	-	-
RAB10	Ras-related protein Rab-10	RAS-RELATED PROTEIN RAB-10 (PTHR24073:SF483)	-
ZCCHC24	Zinc finger CCHC domain-containing protein 24	ZINC FINGER CCHC DOMAIN-CONTAINING PROTEIN 24 (PTHR15439:SF4)	nuclease
COX5A	Cytochrome c oxidase subunit 5A, mitochondrial	CYTOCHROME C OXIDASE SUBUNIT 5A, MITOCHONDRIAL (PTHR14200:SF11)	oxidase
NR3C1	Glucocorticoid receptor	GLUCOCORTICOID RECEPTOR (PTHR24084:SF4)	nuclear hormone receptor, receptor, nucleic acid binding
NCOA7	Nuclear receptor coactivator 7	NUCLEAR RECEPTOR COACTIVATOR 7 (PTHR23354:SF68)	-
RAB22A	Ras-related protein Rab-22A	RAS-RELATED PROTEIN RAB-22A (PTHR24073:SF401)	-
CAMK2D	Calcium/calmodulin-dependent protein kinase type II subunit delta	CALCIUM/CALMODULIN-DEPENDENT PROTEIN KINASE TYPE II SUBUNIT DELTA (PTHR24347:SF108)	non-receptor serine/threonine protein kinase
FAM168B	Myelin-associated neurite-outgrowth inhibitor	MYELIN-ASSOCIATED NEURITE-OUTGROWTH INHIBITOR (PTHR31844:SF2)	-
TMEM178B	Transmembrane protein 178B	TRANSMEMBRANE PROTEIN 178B (PTHR32005:SF1)	-
FRS2	Fibroblast growth factor receptor substrate 2	FIBROBLAST GROWTH FACTOR RECEPTOR SUBSTRATE 2 (PTHR21258:SF40)	-
ZBTB20	Zinc finger and BTB domain-containing protein 20	-	-
ZNF423	Zinc finger protein 423	ZINC FINGER PROTEIN 423 (PTHR24402:SF210)	KRAB box transcription factor
ELAVL3	ELAV-like protein 3	-	-
ESRRG	Estrogen-related receptor gamma	ESTROGEN-RELATED RECEPTOR GAMMA (PTHR24084:SF21)	nuclear hormone receptor, receptor, nucleic acid binding
ATG7	Ubiquitin-like modifier-activating enzyme ATG7	UBIQUITIN-LIKE MODIFIER-ACTIVATING ENZYME ATG7 (PTHR10953:SF3)	transfer/carrier protein, ligase
SMIM13	Small integral membrane protein 13	SMALL INTEGRAL MEMBRANE PROTEIN 13 (PTHR36877:SF1)	-
ZNF521	Zinc finger protein 521	ZINC FINGER PROTEIN 521 (PTHR24402:SF222)	KRAB box transcription factor
AP1S1	AP-1 complex subunit sigma-1A	AP-1 COMPLEX SUBUNIT SIGMA-1A (PTHR11753:SF14)	vesicle coat protein
KHDRBS3	KH domain-containing, RNA-binding, signal transduction-associated protein 3	KH DOMAIN-CONTAINING, RNA-BINDING, SIGNAL TRANSDUCTION-ASSOCIATED PROTEIN 3 (PTHR11208:SF29)	transcription cofactor, mRNA splicing factor

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JAK2	Tyrosine-protein kinase JAK2	TYROSINE-PROTEIN KINASE JAK2 (PTHR24418:SF179)	non-receptor tyrosine protein kinase
PPP3R1	Calcineurin subunit B type 1	CALCINEURIN SUBUNIT B TYPE 1 (PTHR23056:SF43)	protein phosphatase, calmodulin
FARP1	FERM, RhoGEF and pleckstrin domain-containing protein 1	FERM, RHOGEF AND PLECKSTRIN DOMAIN-CONTAINING PROTEIN 1 (PTHR12673:SF105)	guanyl-nucleotide exchange factor
NRBF2	Nuclear receptor-binding factor 2	NUCLEAR RECEPTOR-BINDING FACTOR 2 (PTHR14964:SF2)	-
SMOC1	SPARC-related modular calcium-binding protein 1	SPARC-RELATED MODULAR CALCIUM-BINDING PROTEIN 1 (PTHR12352:SF13)	calcium-binding protein
EPHA5	Ephrin type-A receptor 5	EPHRIN TYPE-A RECEPTOR 5 (PTHR24416:SF17)	-
MYO10	Unconventional myosin-X	UNCONVENTIONAL MYOSIN-X (PTHR13140:SF276)	G-protein modulator, actin binding motor protein, cell junction protein
ATF2	Cyclic AMP-dependent transcription factor ATF-2	CYCLIC AMP-DEPENDENT TRANSCRIPTION FACTOR ATF-2 (PTHR19304:SF9)	transcription factor, nucleic acid binding
PPARGC1A	Peroxisome proliferator-activated receptor gamma coactivator 1-alpha	PEROXISOME PROLIFERATOR-ACTIVATED RECEPTOR GAMMA COACTIVATOR 1-ALPHA (PTHR15528:SF10)	transcription cofactor
FBN2	Fibrillin-2	FIBRILLIN-2 (PTHR24039:SF26)	signaling molecule, extracellular matrix glycoprotein, extracellular matrix structural protein, cell adhesion molecule, annexin, calmodulin
CHP1	Calcineurin B homologous protein 1	CALCINEURIN B HOMOLOGOUS PROTEIN 1 (PTHR23056:SF17)	protein phosphatase, calmodulin
RHOT1	Mitochondrial Rho GTPase 1	MITOCHONDRIAL RHO GTPASE 1 (PTHR24072:SF124)	small GTPase
ANKRD13C	Ankyrin repeat domain-containing protein 13C	ANKYRIN REPEAT DOMAIN-CONTAINING PROTEIN 13C (PTHR12447:SF0)	-
JARID2	Protein Jumonji	PROTEIN JUMONJI (PTHR10694:SF44)	zinc finger transcription factor
RHOBTB3	Rho-related BTB domain-containing protein 3	RHO-RELATED BTB DOMAIN-CONTAINING PROTEIN 3 (PTHR24072:SF139)	small GTPase
AGO2	Protein argonaute-2	PROTEIN ARGONAUTE-2 (PTHR22891:SF0)	-
SOX11	Transcription factor SOX-11	TRANSCRIPTION FACTOR SOX-11 (PTHR10270:SF113)	HMG box transcription factor, nucleic acid binding
PDE4A	cAMP-specific 3',5'-cyclic phosphodiesterase 4A	CAMP-SPECIFIC 3',5'-CYCLIC PHOSPHODIESTERASE 4A (PTHR11347:SF74)	phosphodiesterase
SLC43A1	Large neutral amino acids transporter small subunit 3	LARGE NEUTRAL AMINO ACIDS TRANSPORTER SMALL SUBUNIT 3 (PTHR20766:SF0)	amino acid transporter
SIRT1	NAD-dependent protein deacetylase sirtuin-1	NAD-DEPENDENT PROTEIN DEACETYLASE SIRTUIN-1 (PTHR11085:SF15)	chromatin/chromatin-binding protein, deacetylase
LRRC40	Leucine-rich repeat-containing protein 40	LEUCINE-RICH REPEAT-CONTAINING PROTEIN 40 (PTHR23155:SF424)	-
SLC16A6	Monocarboxylate transporter 7	MONOCARBOXYLATE TRANSPORTER 7 (PTHR11360:SF20)	transporter
INO80D	INO80 complex subunit D	INO80 COMPLEX SUBUNIT D (PTHR16198:SF2)	-
HOXC8	Homeobox protein Hox-C8	HOMEODOMAIN PROTEIN HOX-C8 (PTHR24326:SF255)	homeobox transcription factor, DNA binding protein
SPRYD7	SPRY domain-containing protein 7	SPRY DOMAIN-CONTAINING PROTEIN 7 (PTHR20951:SF2)	-
PPM1K	Protein phosphatase 1K, mitochondrial	PROTEIN PHOSPHATASE 1K, MITOCHONDRIAL (PTHR13832:SF267)	protein phosphatase, kinase inhibitor
PHOX2B	Paired mesoderm homeobox protein 2B	PAIRED MESODERM HOMEODOMAIN PROTEIN 2B (PTHR24329:SF301)	homeobox transcription factor, DNA binding protein
DVL3	Segment polarity protein dishevelled homolog DVL-3	SEGMENT POLARITY PROTEIN DISHEVELLED HOMOLOG DVL-3 (PTHR10878:SF6)	signaling molecule, enzyme modulator
TNRC6B	Trinucleotide repeat-containing gene 6B protein	TRINUCLEOTIDE REPEAT-CONTAINING GENE 6B PROTEIN (PTHR13020:SF32)	-
MLXIP	MLX-interacting protein	MLX-INTERACTING PROTEIN (PTHR15741:SF23)	basic helix-loop-helix transcription factor, nucleic acid binding

miRNAs-208b-3p, 204-5p, 129-2-3p and 3065-5p predicted gene targets according to TargetScanHuman (www.targetscan.org) Release 7.0: August 2015.