

**Table 2.** Direct, potential and non-specific targets of miR-124a, classified based on assays in Supplementary Figure 2.

<b>GENE</b>	<b>MOUSE ACCESSION</b>	<b>NAME</b>
<b>DIRECT TARGETS</b>		
Ctdsp1	NM_153088	RNA polII C-terminal domain small phosphatase 1
Vamp3	NM_009498	Vesicle-associated membrane protein 3
Fcho2	NM_172591	FCH domain only 2
Ptbp1	NM_008956	Polypyrimidine tract binding protein 1
Cd164	NM_016898	Cd164 antigen (sialomucin)
Lamc1	NM_010683	Laminin gamma 1
Cebpa	NM_007678	CCAAT/enhancer binding protein (C/EBP), alpha
Tom11	BC004710	Target of myb1-like 1
Arfp1	XM_130985	Arfaptin-1 (ADP-ribosylation factor-interacting protein 1)
Sypl	NM_198710	Synaptophysin-like
Hadhb	NM_145558	Hydroxyacyl-Coenzyme A dehydrogenase/3-ketoacyl-Coenzyme A thiolase/enoyl-Coenzyme A hydratase (trifunctional protein), beta subunit
B4galt1	NM_022305	UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase, polypeptide 1
Epim	NM_007941	Epimorphin
C6orf72	NM_145418	BC013529 (hypothetical protein LOC215751)
Mapk14	NM_011951	Mitogen activated protein kinase 14
Plod3	NM_011962	Procollagen-lysine, 2-oxoglutarate 5-dioxygenase 3 (lysyl hydrolase)
Itgb1	NM_010578	Integrin beta 1 (fibronectin receptor beta)
Ptpn12	NM_011203	Protein tyrosine phosphatase, non-receptor type 12
Lass2	NM_029789	Longevity assurance homolog 2
Nek9	NM_145138	NIMA (never in mitosis gene a)-related expressed kinase 9
E2ig4	NM_001024619	Leucine rich repeat containing 54
Ctdsp2	NM_146012	RNA polII C-terminal domain small phosphatase 2
<b>POTENTIAL TARGETS</b>		
Cdc14b	NM_172587	CDC14 cell division cycle 14 homolog B
Mphosph9	XM_893274	M-phase phosphoprotein 9
Depdc1	NM_029523	DEP domain containing 1a
Parp16	NM_177460	Poly (ADP-ribose) polymerase family, member 16
FLJ11259	NM_027878	1200002N14Rik
Hebp2	NM_019487	Heme binding protein 2
Iqgap1	NM_016721	IQ motif containing GTPase activating protein 1
Papss2	NM_011864	3'-phosphoadenosine 5'-phosphosulfate synthase 2
THG-1	NM_023910	TSC22 domain family 4 (Tsc22d4)
Gcl	NM_011818	Germ cell-less homolog
Slc30a7	NM_023214	Solute carrier family 30 (zinc transporter), member 7
Serp1	NM_030685	Stress-associated endoplasmic reticulum protein 1 (D3Ucl1)
MGC17943	NM_001013028	Expressed sequence AI597468
Chsy1	XM_194358	Carbohydrate (chondroitin) synthase 1
Ct120	XM_282971	2310047D13Rik
Atp6v0e	NM_025272	ATPase, H+ transporting, V0 subunit
Rarg	NM_011244	Retinoic acid receptor, gamma
Hadhsc	NM_008212	L-3-hydroxyacyl-Coenzyme A dehydrogenase, short chain
Myh9	NM_022410	Myosin, heavy polypeptide 9, non-muscle
Abhd5	NM_026179	Abhydrolase domain containing 5
Litaf	NM_019980	LPS-induced TN factor
Slc16a1	NM_009196	Solute carrier family 16 (monocarboxylic acid transporters), member 1

Aldh9a1	NM_019993	Aldehyde dehydrogenase 9, subfamily A1
Pgrmc2	XM_130859	Progesterone receptor membrane component 2
Tead1	NM_009346	TEA domain family member 1
Cav1	NM_007616	Caveolin 1
Plp2	NM_019755	Proteolipid protein 2
Man2a1	NM_008549	Mannosidase 2, alpha 1
Ryk	NM_013649	Receptor-like tyrosine kinase
Acaa2	NM_177470	Acetyl-Coenzyme A acyltransferase 2 (mitochondrial 3-oxoacyl-Coenzyme A thiolase)
Kiaa1102	BC042189	3732412D22Rik
Ahr	NM_013464	Aryl-hydrocarbon receptor
Peci	NM_011868	Peroxisomal delta3, delta2-enoyl-Coenzyme A isomerase
C14orf32	NM_178684	C130032J12Rik
Dvl2	NM_007888	Dishevelled 2, dsh homolog
Ak2	NM_016895	Adenylate kinase 2
Trip11	XM_127084	Thyroid hormone receptor interactor 11
Cdk4	NM_009870	Cyclin-dependent kinase 4
Chp	NM_019769	Calcium-binding protein p22 (Calcium-binding protein CHP) (Calcineurin homologous protein) (Sid 470)
Rela	NM_009045	v-rel reticuloendotheliosis viral oncogene homolog A (avian)
Nme4	NM_019731	Expressed in non-metastatic cells 4
Podxl	NM_013723	Podocalyxin-like
C9orf88	NM_146119	9130404D14Rik; Niban-like protein
Slc22a5	NM_011396	Solute carrier family 22 (organic cation transporter), member 5
MGC5508	NM_134142	1110006115Rik (hypothetical protein LOC68539); TMEM109
Kis	NM_010633	U2AF homology motif (UHM) kinase 1 (UHMK1)
Slc25a30	NM_026232	Solute carrier family 25, member 30
Spc18	NM_019951	Sec11-like 1
Mad2l2	NM_027985	MAD2 mitotic arrest deficient-like 2
Slc17a5	NM_172773	Solute carrier family 17 (anion/sugar transporter), member 5
FLJ46072	NM_134087	Expressed sequence AA409316
FLJ10099	XM_355643	0610007L01Rik (BC033455)
Tnfrsf21	NM_178589	Tumor necrosis factor receptor superfamily, member 21
Dnm2	NM_001039520	Dynamin 2
Syngn2	NM_009304	Synaptogyrin 2
Btg3	NM_009770	B-cell translocation gene 3
Rnpepl1	NM_181405	Arginyl aminopeptidase (aminopeptidase B)-like 1
Lrrc1	NM_172528	Leucine rich repeat containing 1
G3bp	NM_013716	Ras-GTPase-activating protein SH3-domain binding protein
Pttg1p	NM_145925	Pituitary tumor-transforming 1 interacting protein
Tln1	NM_011602	Talin 1
FLJ20847	NM_181403	Vacuolar protein sorting 37C

## NON-SPECIFIC TARGETS

RAI	NM_001010836	Protein phosphatase 1, regulatory (inhibitor) subunit 13 like
Ahrr	NM_009644	Aryl-hydrocarbon receptor repressor
Ankrd15	NM_181404	Ankyrin repeat domain 15
Htatip2	NM_016865	HIV-1 tat interactive protein 2, homolog
Araf1	NM_009703	v-raf murine sarcoma 3611 viral oncogene homolog
Twist2	NM_007855	Twist homolog 2
Anxa8	NM_013473	Annexin A8
Creb3l2	NM_178661	cAMP responsive element binding protein 3-like 2
D4st1	NM_028117	Dermatan 4 sulfotransferase 1
Phf19	NM_028716	PHD finger protein 19
Pp1201	NM_027154	Transmembrane BAX inhibitor motif containing 1 (Tmbim1)
Arhgef1	NM_008488	Rho guanine nucleotide exchange factor (GEF) 1
Loc55974	NM_009057	Recombination activating gene 1 activating protein 1 (Rag1ap1)
F11R	NM_172647	F11 receptor
Arh	NM_145554	Low density lipoprotein receptor adaptor protein 1 (Ldlrap1)
Parg1	NM_172525	Rho GTPase activating protein 29 (Arhgap29)
Smad5	NM_008541	MAD homolog 5

C3orf4	NM_171826	Claudin containing domain 1 (Cldnd1)
Gnai3	NM_010306	Guanine nucleotide binding protein, alpha inhibiting 3
Lmnb1	NM_010721	Lamin B1
MGC20741	NM_198421	USP49
Ctgf	NM_010217	Connective tissue growth factor
Apex2	NM_029943	Apurinic/aprimidinic endonuclease 2
Gsn	NM_146120	Gelsolin
Pgm1	NM_028132	Phosphoglucomutase 1
Zbed3	NM_028106	Zinc finger, BED domain containing 3
Ram2	NM_146040	Cell division cycle associated 7 like
Arpc1b	NM_023142	Actin related protein 2/3 complex, subunit 1B
FLJ20273	NM_178446	9530077J19Rik (BC013481); RNA-binding protein
Eya4	NM_010167	Eyes absent 4 homolog
Elovl1	NM_019422	Elongation of very long chain fatty acids (FEN1/Elo2, SUR4/Elo3, yeast)-like 1
Snai2	NM_011415	Snail homolog 2
Swap70	NM_009302	SWA-70 protein
Cdca7	NM_025866	Cell division cycle associated 7
C14orf24	NM_028527	1700047117Rik
NS5ATP13TP2	NM_178644	D9Ucla1
Cpne3	NM_027769	Copine III
TBDN100	NM_053089	NMDA receptor-regulated gene 1 (Narg1)
Dnajc1	NM_007869	DnaJ (Hsp40) homolog, subfamily C, member 1
Polr3g	XM_283153	Polymerase (RNA) III (DNA directed) polypeptide G
Cd59	NM_181858	Cd59 antigen
FLJ10420	NM_025383	NECAP endocytosis associated 2
Dctd	NM_178788	dCMP deaminase
Hspc135	NM_025332	GTP-binding protein 8 (putative)
Tjp2	NM_011597	Tight junction protein 2
Dffb	NM_007859	DNA fragmentation factor, beta subunit
Ifrd2	NM_025903	Interferon-related developmental regulator 2
Pldn	NM_019788	Pallidin
<b>NOT DETERMINED</b>		
Ctnnd1	NM_007615	Catenin (cadherin associated protein), delta 1
Nek6	NM_021606	NIMA (never in mitosis gene a)-related expressed kinase 6
Apim2	NM_009678	Adaptor-related protein complex 1, mu 2 subunit
FLJ25084	XM_888129	2300003P22Rik
C18orf37	NM_172625	D030070L09Rik
MGC62100	NM_146185	6330581L23Rik
Kiaa0830	NM_028013	2310067E08Rik; Endod1
Ssfa2	NM_080558	Sperm specific antigen 2
MGC4083	NM_026473	Tubulin, beta 6
Cyp1b1	NM_009994	Cytochrome P450, family 1, subfamily b, polypeptide 1
FLJ20364	NM_027411	2600001J17Rik
Fam35a	NM_029389	3110001K24Rik
Cdk6	NM_009873	Cyclin-dependent kinase 6
Usp48	XM_485461	Similar to ubiquitin specific protease 48
Mtmr6	NM_144843	Myotubularin related protein 6
Slc15a4	NM_133895	Solute carrier family 15, member 4
Elf4	NM_019680	E74-like factor 4 (ets domain transcription factor)
Uhrf1	NM_010931	Ubiquitin-like, containing PHD and RING finger domains, 1
Serpinh6	NM_009254	Serine (or cysteine) peptidase inhibitor, clade B, member 6a
FN5	NM_133214	FN5 protein (BC017612)
Rassf5	NM_018750	Ras association (RalGDS/AF-6) domain family 5
Stom	NM_013515	Stomatin
FLJ21924	XM_130565	4732486I23Rik; Qser1
Nfic	NM_008688	Nuclear factor I/C
TTC7A	NM_028639	Tetratricopeptide repeat domain
Dhcr24	NM_053272	24-dehydrocholesterol reductase
Ankrd27	NM_145633	Ankyrin repeat domain 27 (VPS9 domain)

Katna1	NM_011835	Katanin p60 (ATPase-containing) subunit A1
Tarbp1	ENSMUST00000046393	Tar (HIV-1) RNA binding protein 1
Sp1	NM_013672	Trans-acting transcription factor 1
Rbms1	NM_020296	RNA binding motif, single stranded interacting protein 1
C10orf56	XM_484355	2310047A01Rik
Actr8	NM_027493	ARP8 actin-related protein 8 homolog
Osbpl8	NM_175489	Oxysterol binding protein-like 8, isoform a
Gng10	NM_025277	Guanine nucleotide binding protein (G protein), gamma 10
Trim29	NM_023655	Tripartite motif protein 29
C2orf12	NO HOMOLOGUE	
Contig3845_RC	NO HOMOLOGUE	
Hic	NO HOMOLOGUE	
Loc116064	NO HOMOLOGUE	
Loc339924	NO HOMOLOGUE	
Stx10	NO HOMOLOGUE	syntaxin 10