

Supplemental Table 1. miR-21^{-/-} affected genes at baseline in the lung

Entrez Gene ID	Gene Symbol	Gene Description
9508	Adamts3	ADAM metallopeptidase with thrombospondin type 1 motif, 3
23382	Ahcy12	adenosylhomocysteinase-like 2
406	Arntl	aryl hydrocarbon receptor nuclear translocator-like
79365	Bhlhe41	basic helix-loop-helix family, member e41
79616	Ccnj1	cyclin J-like
30835	Cd209	CD209 molecule
50856	Clec4a	C-type lectin domain family 4, member A
10332	Clec4m	C-type lectin domain family 4, member M
1271	Cntfr	ciliary neurotrophic factor receptor
1271	Cntfr	ciliary neurotrophic factor receptor
404093	Cuedc1	CUE domain containing 1
10563	Cxcl13	chemokine (C-X-C motif) ligand 13
1628	Dbp	D site of albumin promoter (albumin D-box) binding protein
8526	Dgke	diacylglycerol kinase, epsilon 64kDa
79665	Dhx40	DEAH (Asp-Glu-Ala-His) box polypeptide 40
79132	Dhx58	DEXH (Asp-Glu-X-His) box polypeptide 58
25975	Egfl6	EGF-like-domain, multiple 6
2006	Eln	elastin
2155	F7	coagulation factor VII (serum prothrombin conversion accelerator)
162517	Fbxo39	F-box protein 39
2813	Gp2	glycoprotein 2 (zymogen granule membrane)
353345	Gpr141	G protein-coupled receptor 141
3665	Irf7	interferon regulatory factor 7
730249	Irg1	immunoresponsive 1 homolog (mouse)
338785	Krt79	keratin 79
4069	Lyz	lysozyme
79148	Mmp28	matrix metallopeptidase 28
22861	Nlrp1	NLR family, pyrin domain containing 1
9111	Nmi	N-myc (and STAT) interactor
4862	Npas2	neuronal PAS domain protein 2

9572	Nr1d1	nuclear receptor subfamily 1, group D, member 1
9975	Nr1d2	nuclear receptor subfamily 1, group D, member 2
4938	Oas1	2',5'-oligoadenylate synthetase 1, 40/46kDa
58488	Pctp	phosphatidylcholine transfer protein
8863	Per3	period homolog 3 (Drosophila)
5999	Rgs4	regulator of G-protein signaling 4
5999	Rgs4	regulator of G-protein signaling 4
26001	Rnf167	ring finger protein 167
26001	Rnf167	ring finger protein 167
57674	Rnf213	ring finger protein 213
6443	Sgcb	sarcoglycan, beta (43kDa dystrophin-associated glycoprotein)
146857	Slfn13	schlafen family member 13
10417	Spon2	spondin 2, extracellular matrix protein
6879	Taf7	TAF7 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 55kDa
7045	Tgfbi	transforming growth factor, beta-induced, 68kDa
7051	Tgm1	transglutaminase 1 (K polypeptide epidermal type I, protein-glutamine-gamma-glutamyltransferase)
55273	Tmem100	transmembrane protein 100
7405	Uvrag	UV radiation resistance associated gene
55350	Vnn3	vanin 3

Supplemental Table 2. miR-21^{-/-} affected genes after OVA challenge in the Lung

Probe ID	Gene Symbol	Description	Regulation
10361292	Crry	complement receptor related protein:Genscan chromosome:NCBIM37:1:19 6861976:196997364:-1	Hyper-activated
10376887	C17orf45, SNORD49A, SNORD49B	Mus musculus clone MBII-243 C/D box snoRNA, partial sequence.	Hyper-activated
10368616	2700019D07Rik	RIKEN cDNA 2700019D07 gene	Hyper-activated
10595638	4930579C12Rik	RIKEN cDNA 4930579C12 gene	Hyper-activated
10587665	4930579C12Rik	RIKEN cDNA 4930579C12 gene	Hyper-activated
10367532	5830405N20Rik	cdna:known chromosome:NCBIM37:10:1 29759934:129799693:1 gene:ENSMUSG00000034833	Hyper-activated
10566333	9230105E10Rik	RIKEN cDNA 9230105E10 gene	Hyper-activated
10566346	9230105E10Rik	RIKEN cDNA 9230105E10 gene	Hyper-activated
10387985	A430084P05Rik	RIKEN cDNA A430084P05 gene (A430084P05Rik), mRNA	Hyper-activated
10531195	Adamts3	ADAM metallopeptidase with thrombospondin type 1 motif, 3	Hyper-activated
10531177	Adamts3	ADAM metallopeptidase with thrombospondin type 1 motif, 3	Hyper-activated
10531191	Adamts3	ADAM metallopeptidase with thrombospondin type 1 motif, 3	Hyper-activated
10566366	AI451617	expressed sequence AI451617	Hyper-activated
10450484	Aif1	allograft inflammatory factor 1	Hyper-activated
10403871	Aoah	acyloxyacyl hydrolase	Hyper-activated
10439009	Apod	apolipoprotein D	Hyper-activated

10471154	Ass1	argininosuccinate synthetase 1	Hyper-activated
10502335	Bank1	B-cell scaffold protein with ankyrin repeats 1	Hyper-activated
10571984	BC013672	cDNA sequence BC013672	Hyper-activated
10531980	BC057170	cDNA sequence BC057170	Hyper-activated
10360370	BC094916	cDNA sequence BC094916	Hyper-activated
10541683	C1r	complement component 1, r subcomponent (C1r), mRNA	Hyper-activated
10547740	C1s	complement component 1, s subcomponent	Hyper-activated
10450344	C2	complement component 2 (within H-2S)	Hyper-activated
10582997	Casp4	caspase 4, apoptosis-related cysteine peptidase	Hyper-activated
10389064	Ccl1	chemokine (C-C motif) ligand 1	Hyper-activated
10512372	Ccl19	chemokine (C-C motif) ligand 19	Hyper-activated
10504159	Ccl19	chemokine (C-C motif) ligand 19	Hyper-activated
10512322	Ccl19	chemokine (C-C motif) ligand 19	Hyper-activated
10504188	Ccl19	chemokine (C-C motif) ligand 19	Hyper-activated
10504132	Ccl19	chemokine (C-C motif) ligand 19	Hyper-activated
10389231	Ccl3	chemokine (C-C motif) ligand 3	Hyper-activated
10406928	Cd180	CD180 antigen	Hyper-activated
10567863	Cd19	CD19 antigen	Hyper-activated
10457168	Cd226	CD226 antigen	Hyper-activated
10462390	Cd274	CD274 antigen (Cd274), mRNA	Hyper-activated
10450957	Cenpq	centromere protein Q	Hyper-activated
10387699	Centb1	centaurin, beta 1	Hyper-activated
10450325	Cfb	complement factor B	Hyper-activated
10541614	Clec4d	C-type lectin domain family 4, member d (Clec4d), mRNA	Hyper-activated
10547664	Clec4e	C-type lectin domain family 4, member e (Clec4e), mRNA	Hyper-activated

10544273	Clec5a	C-type lectin domain family 5, member a	Hyper-activated
10508074	Csf3r	colony stimulating factor 3 receptor (granulocyte) (Csf3r), mRNA	Hyper-activated
10582868	Csprs	cdna:known chromosome:NCBIM37:1:85273786:85286414:1 gene:ENSMUSG00000079455	Hyper-activated
10356271	Csprs	cdna:Genscan chromosome:NCBIM37:1:85024529:85115049:-1	Hyper-activated
10347928	Csprs	cdna:known chromosome:NCBIM37:1:85271682:85273595:1 gene:ENSMUSG00000079458	Hyper-activated
10582874	Csprs	cdna:known chromosome:NCBIM37:1:85271682:85273595:1 gene:ENSMUSG00000079458	Hyper-activated
10534909	Csprs	cdna:known chromosome:NCBIM37:1:85273786:85286414:1 gene:ENSMUSG00000079455	Hyper-activated
10465059	Ctsw	cathepsin W (Ctsw), mRNA	Hyper-activated
10531415	Cxcl10	chemokine (C-X-C motif) ligand 10	Hyper-activated
10523156	Cxcl2	chemokine (C-X-C motif) ligand 2	Hyper-activated
10531407	Cxcl9	chemokine (C-X-C motif) ligand 9	Hyper-activated
10420488	D14Ert668e	DNA segment, Chr 14, ERATO Doi 668, expressed	Hyper-activated
10391207	Dhx58	DEXH (Asp-Glu-X-His) box polypeptide 58	Hyper-activated
10417526	Dnase1l3	deoxyribonuclease 1-like 3	Hyper-activated
10466127	EF660528	small secreted protein interferon-induced mRNA, expressed sequence AW112010	Hyper-activated

10566580	EG209380	predicted gene, EG209380	Hyper-activated
10455954	EG240327	predicted gene, EG240327	Hyper-activated
10360367	EG240921	predicted gene, EG240921	Hyper-activated
10363541	EG432466	predicted gene, EG432466	Hyper-activated
10466314	EG625046	predicted gene, EG625046	Hyper-activated
10566583	EG668139	predicted gene, EG668139	Hyper-activated
10397083	ENSMUSG0000010608	cdna:known chromosome:NCBIM37:12:84983579:85024073:1 gene:ENSMUSG00000010608	Hyper-activated
10538590	ENSMUSG00000029798	cdna:known chromosome:NCBIM37:6:57531031:57613290:1 gene:ENSMUSG00000029798	Hyper-activated
10542911	ENSMUSG00000047735	cdna:known chromosome:NCBIM37:6:3322260:3349492:-1 gene:ENSMUSG00000047735	Hyper-activated
10360373	ENSMUSG00000073491	cdna:known chromosome:NCBIM37:1:175522093:175529405:-1 gene:ENSMUSG00000073491	Hyper-activated
10566578	ENSMUSG00000073904	cdna:known chromosome:NCBIM37:7:113220264:113222657:-1 gene:ENSMUSG00000073904	Hyper-activated
10416566	Epsti1	epithelial stromal interaction 1 (breast)	Hyper-activated
10378068	Fbxo39	F-box protein 39 (Fbxo39), mRNA	Hyper-activated
10500335	Fcgr1	Fc receptor, IgG, high affinity I	Hyper-activated
10351509	Fcgr4	Fc receptor, IgG, low affinity IV (Fcgr4), mRNA	Hyper-activated
10519983	Fgl2	fibrinogen-like protein 2	Hyper-activated
10422760	Fyb	FYN binding protein	Hyper-activated
10351037	Gas5	growth arrest specific 5	Hyper-activated

10351043	Gas5, Snord47	Mus musculus clone MBII-96 C/D box snoRNA, partial sequence.	Hyper-activated
10496592	Gbp2	guanylate nucleotide binding protein 2	Hyper-activated
10496580	Gbp3	guanylate nucleotide binding protein 3	Hyper-activated
10496539	Gbp5	guanylate nucleotide binding protein 5 (Gbp5), mRNA	Hyper-activated
10531972	Gbp6	Guanylate-binding protein 6, RIKEN cDNA 5830443L24 gene	Hyper-activated
10531987	Gbp6	Guanylate-binding protein 6, RIKEN cDNA 5830443L24 gene	Hyper-activated
10496569	Gbp6	guanylate binding protein 6	Hyper-activated
10385504	Gm5431	novel interferon-inducible GTPase (IIGP) family member, EG432555	Hyper-activated
10533720	Gpr109a	G protein-coupled receptor 109A	Hyper-activated
10601424	Gpr174	G protein-coupled receptor 174	Hyper-activated
10420308	Gzmb	granzyme B	Hyper-activated
10364361	Icosl	icos ligand	Hyper-activated
10360391	Ifi203	interferon activated gene 203	Hyper-activated
10360382	Ifi204	interferon activated gene 204	Hyper-activated
10360406	Ifi205	interferon activated gene 205	Hyper-activated
10375515	Ifi47	interferon gamma inducible protein 47	Hyper-activated
10462613	Ifit2	interferon-induced protein with tetratricopeptide repeats 2	Hyper-activated
10462618	Ifit3	interferon-induced protein with tetratricopeptide repeats 3	Hyper-activated
10570434	Ifitm1	interferon induced transmembrane protein 1	Hyper-activated
10376326	Igtp	interferon gamma induced GTPase	Hyper-activated
10455961	Iigp1	interferon inducible GTPase 1	Hyper-activated
10545135	Il12rb2	interleukin 12 receptor, beta 2	Hyper-activated

10545154	Il23r	interleukin 23 receptor	Hyper-activated
10574427	Impdh2	inosine 5'-phosphate dehydrogenase 2	Hyper-activated
10577655	Indo	indoleamine-pyrrole 2,3 dioxygenase	Hyper-activated
10376060	Irf1	interferon regulatory factor 1	Hyper-activated
10376324	Irgb10	interferon-gamma-inducible p47 GTPase	Hyper-activated
10385500	Irgm	immunity-related GTPase family, M	Hyper-activated
10385428	Itk	IL2-inducible T-cell kinase	Hyper-activated
10542140	Klrb1f	killer cell lectin-like receptor subfamily B member 1F (Klrb1f), mRNA; killer cell lectin-like receptor subfamily B member 1F (Klrb1f), mRNA	Hyper-activated
10548345	Klrk1	killer cell lectin-like receptor subfamily K, member 1	Hyper-activated
10450675	LOC100045444	similar to histocompatibility 2, T region locus 24	Hyper-activated
10455957	LOC546714	hypothetical LOC546714	Hyper-activated
10385507	LOC620913	Ras_like_GTPase:NCBIM37:11:48720659:48729864:-1	Hyper-activated
10598152	LOC625360	similar to 2-cell-stage, variable group, member 3	Hyper-activated
10367744	LOC629446	gag protein	Hyper-activated
10462621	LOC667370	similar to interferon-induced protein with tetratricopeptide repeats 3	Hyper-activated
10455970	LOC667597	hypothetical LOC667597	Hyper-activated
10444752	Ltb	lymphotoxin B	Hyper-activated
10429520	Ly6d	lymphocyte antigen 6 complex, locus D	Hyper-activated
10429560	Ly6i	lymphocyte antigen 6 complex, locus I (Ly6i), mRNA	Hyper-activated
10421555	Mir687	ncrna:miRNA chromosome:NCBIM37:14:73606570:73606658:-1 gene:ENSMUSG00000076121	Hyper-activated

10531994	Mpa2l	cdna:known-ccds chromosome:NCBIM37:5:10 5702121:105722714:-1 gene:ENSMUSG000000793 62 CCDS19492.1	Hyper-activated
10532019	Mpa2l	macrophage activation 2 like	Hyper-activated
10355456	Mreg	melanoregulin	Hyper-activated
10461605	Ms4a4b	membrane-spanning 4- domains, subfamily A, member 4B	Hyper-activated
10545672	Mthfd2	methylenetetrahydrofolate dehydrogenase (NAD+ dependent), methenyltetrahydrofolate cyclohydrolase	Hyper-activated
10353010	Mybl1	myeloblastosis oncogene- like 1	Hyper-activated
10552406	Nkg7	natural killer cell group 7 sequence (Nkg7), mRNA	Hyper-activated
10574104	Nlrc5	NLR family, CARD domain containing 5	Hyper-activated
10574163	Nlrc5	NLR family, CARD domain containing 5 (Nlrc5), mRNA	Hyper-activated
10376513	Nlrp3	NLR family, pyrin domain containing 3	Hyper-activated
10525158	Oas1b	cdna:Genscan chromosome:NCBIM37:5:12 1262710:121301677:1	Hyper-activated
10533198	Oas2	2'-5' oligoadenylate synthetase 2 (Oas2), mRNA	Hyper-activated
10533213	Oas3	2'-5' oligoadenylate synthetase 3	Hyper-activated
10505438	Orm1	orosomuroid 1	Hyper-activated
10498367	P2ry13	purinergic receptor P2Y, G- protein coupled 13	Hyper-activated
10439249	Parp14	poly (ADP-ribose) polymerase family, member 14 (Parp14), mRNA	Hyper-activated
10420483	Phf11	PHD finger protein 11	Hyper-activated
10534935	Pilrb1	paired immunoglobulin-like type 2 receptor beta 1	Hyper-activated
10531724	Plac8	placenta-specific 8	Hyper-activated
10385511	Psme2	proteasome (prosome, macropain) 28 subunit, beta	Hyper-activated

10545101	Ptgds2	prostaglandin D2 synthase 2, hematopoietic	Hyper-activated
10351873	Pyhin1	pyrin and HIN domain family, member 1	Hyper-activated
10383200	Rnf213	ring finger protein 213 (Rnf213), mRNA	Hyper-activated
10444814	Rnf213	cdna:known chromosome:NCBIM37:17:35516576:35520721:1 gene:ENSMUSG00000035929	Hyper-activated
10383192	Rnf213	ring finger protein 213 (Rnf213), mRNA	Hyper-activated
10383210	Rnf213	ring finger protein 213 (Rnf213), mRNA	Hyper-activated
10383206	Rnf213	ring finger protein 213 (Rnf213), mRNA	Hyper-activated
10383212	Rnf213	ring finger protein 213 (Rnf213), mRNA	Hyper-activated
10383208	Rnf213	ring finger protein 213 (Rnf213), mRNA	Hyper-activated
10563108	Rnu35a	RNA, U35a small nucleolar	Hyper-activated
10499130	Rnu73b	ncrna:snoRNA chromosome:NCBIM37:3:85944540:85944610:-1 gene:ENSMUSG00000064390	Hyper-activated
10434778	Rtp4	receptor transporter protein 4 (Rtp4), mRNA	Hyper-activated
10563597	Saa3	serum amyloid A 3	Hyper-activated
10420503	Setdb2	SET domain, bifurcated 2	Hyper-activated
10487823	Siglec1	sialic acid binding Ig-like lectin 1, sialoadhesin	Hyper-activated
10497356	Sirpb1	signal-regulatory protein beta 1	Hyper-activated
10351667	Slamf1	signaling lymphocytic activation molecule family member 1	Hyper-activated
10379633	Slfn1	schlafen 1	Hyper-activated
10389151	Slfn10	schlafen 10	Hyper-activated
10379630	Slfn2	schlafen 2	Hyper-activated
10379646	Slfn3	schlafen 3	Hyper-activated
10389134	Slfn9	schlafen 9	Hyper-activated

10489463	Slpi	secretory leukocyte peptidase inhibitor (Slpi), mRNA	Hyper-activated
10461156	Snhg1	small nucleolar RNA host gene (non-protein coding) 1	Hyper-activated
10461152	Snhg1	small nucleolar RNA host gene (non-protein coding) 1	Hyper-activated
10563112	Snord33	small nucleolar RNA, C/D box 33	Hyper-activated
10347948	Sp100	nuclear antigen Sp100	Hyper-activated
10356278	Sp110	Sp110 nuclear body protein	Hyper-activated
10582862	Sp140	Sp140 nuclear body protein	Hyper-activated
10347933	Sp140	Sp140 nuclear body protein	Hyper-activated
10346191	Stat1	signal transducer and activator of transcription 1	Hyper-activated
10367224	Stat2	signal transducer and activator of transcription 2	Hyper-activated
10519497	Steap4	STEAP family member 4	Hyper-activated
10444244	Tap1	transporter 1, ATP-binding cassette, sub-family B (MDR/TAP) (Tap1), mRNA	Hyper-activated
10390328	Tbx21	T-box 21 (Tbx21), mRNA	Hyper-activated
10405587	Tgfbi	transforming growth factor, beta induced	Hyper-activated
10385518	Tgtp	T-cell specific GTPase	Hyper-activated
10385533	Tgtp	T-cell specific GTPase	Hyper-activated
10530145	Tlr1	toll-like receptor 1	Hyper-activated
10450501	Tnf	tumor necrosis factor	Hyper-activated
10398665	Tnfaip2	tumor necrosis factor, alpha-induced protein 2	Hyper-activated
10566326	Trim12	tripartite motif protein 12	Hyper-activated
10566358	Trim30	tripartite motif protein 30	Hyper-activated
10490150	Zbp1	Z-DNA binding protein 1 (Zbp1), mRNA	Hyper-activated
10489701	4833422F24Rik	RIKEN cDNA 4833422F24 gene (4833422F24Rik), mRNA	De-Activated
10568873	Adam8	a disintegrin and metallopeptidase domain 8	De-Activated
10546432	Adamts9	a disintegrin-like and metallopeptidase (reprolysin type) with thrombospondin type 1 motif, 9	De-Activated

10536931	Ahcy12	S-adenosylhomocysteine hydrolase-like 2 (Ahcyl2), RIKEN cDNA 4631427C17 gene	De-Activated
10379652	AI450353	expressed sequence AI450353	De-Activated
10387855	Alox15	arachidonate 15-lipoxygenase	De-Activated
10560919	Atp1a3	ATPase, Na ⁺ /K ⁺ transporting, alpha 3 polypeptide	De-Activated
10490923	Car2	carbonic anhydrase 2	De-Activated
10574226	Ccl17	chemokine (C-C motif) ligand 17	De-Activated
10389214	Ccl9	cdna:known chromosome:NCBIM37:11:83388861:83392005:-1 gene:ENSMUSG00000019122	De-Activated
10498192	Ccna1	cyclin A1 (Ccna1), mRNA	De-Activated
10576784	Cd209a	CD209a antigen	De-Activated
10576799	Cd209e	CD209e antigen	De-Activated
10496001	Cfi	complement component factor i	De-Activated
10501020	Chi3l3	chitinase 3-like 3 (Chi3l3), mRNA	De-Activated
10541587	Clec4a2	C-type lectin domain family 4, member a2	De-Activated
10370210	Col6a1	collagen, type VI, alpha 1	De-Activated
10530441	Corin	corin (Corin), mRNA	De-Activated
10389561	Dhx40	DEAH (Asp-Glu-Ala-His) box polypeptide 40	De-Activated
10419154	Ear1	eosinophil-associated, ribonuclease A family, member 1	De-Activated
10419156	Ear10	eosinophil-associated, ribonuclease A family, member 10	De-Activated
10598175	Ear10	eosinophil-associated, ribonuclease A family, member 10	De-Activated
10419568	Ear11	eosinophil-associated, ribonuclease A family, member 11	De-Activated

10414262	Ear2	eosinophil-associated, ribonuclease A family, member 2	De-Activated
10414551	Ear5	eosinophil-associated, ribonuclease A family, member 5	De-Activated
10363735	Egr2	early growth response 2	De-Activated
10415857	Fam167a	cDNA sequence BC065085 (BC065085), mRNA	De-Activated
10410007	Fbp1	fructose biphosphatase 1	De-Activated
10355403	Fn1	fibronectin 1	De-Activated
10547206	Fxyd4	FXD domain-containing ion transport regulator 4	De-Activated
10567366	Gp2	glycoprotein 2 (zymogen granule membrane)	De-Activated
10487238	Hdc	histidine decarboxylase	De-Activated
10574780	Hsd11b2	hydroxysteroid 11-beta dehydrogenase 2	De-Activated
10365559	Igf1	insulin-like growth factor 1 (Igf1), transcript variant 1, mRNA	De-Activated
10412126	Il31ra	interleukin 31 receptor A	De-Activated
10377774	Mgl2	macrophage galactose N-acetyl-galactosamine specific lectin 2	De-Activated
10475517	miR147	expressed sequence AA467197 (AA467197), mRNA	De-Activated
10583056	Mmp12	matrix metalloproteinase 12	De-Activated
10367400	Mmp19	matrix metalloproteinase 19	De-Activated
10388047	Nlrp1a	NLR family, pyrin domain containing 1A	De-Activated
10388065	Nlrp1b	NLR family, pyrin domain containing 1B	De-Activated
10388086	Nlrp1c	NLR family, pyrin domain containing 1C	De-Activated
10395553	Nrcam	neuron-glia-CAM-related cell adhesion molecule	De-Activated
10502191	Ostc	oligosaccharyltransferase complex subunit (Ostc), RIKEN cDNA 2310008M10 gene	De-Activated
10565962	P2ry2	purinergic receptor P2Y, G-protein coupled 2	De-Activated

10471721	Ptgs1	prostaglandin-endoperoxide synthase 1	De-Activated
10436100	Retnlg	resistin like gamma	De-Activated
10359908	Rgs4	regulator of G-protein signaling 4	De-Activated
10419563	Rnase1	ribonuclease, RNase A family, 1 (pancreatic)	De-Activated
10399854	Slc26a4	solute carrier family 26, member 4	De-Activated
10521038	Slc5a1	solute carrier family 5 (sodium/glucose cotransporter), member 1	De-Activated
10389143	Slfn8	schlafen 8	De-Activated
10460118	Socs6	suppressor of cytokine signaling 6	De-Activated
10499899	Sprr1a	small proline-rich protein 1A	De-Activated
10493856	Sprr2a	hypothetical protein LOC100042514	De-Activated
10493858	Sprr2a	hypothetical protein LOC100042514	De-Activated
10493850	Sprr2a	small proline-rich protein 2A	De-Activated
10432923	Spryd3	SPRY domain containing 3	De-Activated
10390560	Stac2	SH3 and cysteine rich domain 2	De-Activated
10603843	Syn1	synapsin I	De-Activated
10420114	Tgm1	transglutaminase 1, K polypeptide	De-Activated
10363762	Tmem26	transmembrane protein 26	De-Activated
10508405	Tmem54	transmembrane protein 54	De-Activated
10513739	Tnc	tenascin C	De-Activated
10510580	Tnfrsf9	tumor necrosis factor receptor superfamily, member 9	De-Activated
10388488	Uvrsg	cdna:known chromosome:NCBIM37:11:75834762:75841284:-1 gene:ENSMUSG00000020846	De-Activated
10467149	---	cdna:Genscan chromosome:NCBIM37:19:34693304:34694521:-1	De-Repressed
10378572	---	cdna:Genscan chromosome:NCBIM37:11:75281707:75326345:1	De-Repressed

10376885	2410006H16Rik	RIKEN cDNA 2410006H16 gene	De-Repressed
10387723	2810408A11Rik	RIKEN cDNA 2810408A11 gene	De-Repressed
10602827	A830080D01Rik	RIKEN cDNA A830080D01 gene	De-Repressed
10436304	Abi3bp	ABI gene family, member 3 (NESH) binding protein	De-Repressed
10452516	Ankrd12	ankyrin repeat domain 12	De-Repressed
10600901	Ar	androgen receptor	De-Repressed
10587534	Bckdhb	branched chain ketoacid dehydrogenase E1, beta polypeptide (Bckdhb), mRNA	De-Repressed
10583008	Casp12	caspase 12	De-Repressed
10512377	Ccl21a	chemokine (C-C motif) ligand 21a	De-Repressed
10504127	Ccl21a	chemokine (C-C motif) ligand 21a	De-Repressed
10504183	Ccl21a	chemokine (C-C motif) ligand 21a	De-Repressed
10504154	Ccl21a	chemokine (C-C motif) ligand 21a	De-Repressed
10545865	Cml3	camello-like 3	De-Repressed
10512279	Cntfr	ciliary neurotrophic factor receptor (Cntfr), mRNA	De-Repressed
10344803	Cspp1	centrosome and spindle pole associated protein 1	De-Repressed
10344805	Cspp1	centrosome and spindle pole associated protein 1	De-Repressed
10380226	Cuedc1	CUE domain containing 1 (Cuedc1), mRNA	De-Repressed
10553092	Dbp	D site albumin promoter binding protein (Dbp), mRNA	De-Repressed
10365974	Dcn	decorin	De-Repressed
10565775	Dgat2	diacylglycerol O-acyltransferase 2	De-Repressed
10352110	EG545391	predicted gene, EG545391 (EG545391), mRNA	De-Repressed
10491627	ENSMUSG00000037270	cdna:known chromosome:NCBIM37:3:36852804:36951937:1 gene:ENSMUSG00000037270	De-Repressed

10563116	Flt3l	FMS-like tyrosine kinase 3 ligand	De-Repressed
10448124	Fpr1	formyl peptide receptor 1	De-Repressed
10585194	Il18	interleukin 18	De-Repressed
10469786	Il1f9	interleukin 1 family, member 9	De-Repressed
10416705	LOC668603	similar to Rpl17 protein	De-Repressed
10497345	LOC751864	SIRP beta 1 like 2	De-Repressed
10589703	Ltf	lactotransferrin	De-Repressed
10357261	Marco	macrophage receptor with collagenous structure	De-Repressed
10496756	Mcoln3	mucolipin 3 (Mcoln3), mRNA	De-Repressed
10497077	Mir186	ncrna:miRNA chromosome:NCBIM37:3:157207243:157207313:1 gene:ENSMUSG00000065431	De-Repressed
10604694	Mtap7d3	MAP7 domain containing 3	De-Repressed
10598075	mt-Ta	ncrna:Mt_tRNA chromosome:NCBIM37:MT:5018:5086:-1 gene:ENSMUSG00000064347	De-Repressed
10598057	mt-Tr	ncrna:Mt_tRNA chromosome:NCBIM37:MT:9808:9875:1 gene:ENSMUSG00000064361	De-Repressed
10417734	Nr1d2	nuclear receptor subfamily 1, group D, member 2	De-Repressed
10356601	Per2	period homolog 2 (Drosophila)	De-Repressed
10518781	Per3	period homolog 3 (Drosophila)	De-Repressed
10377927	Rnf167	ring finger protein 167	De-Repressed
10492456	Rsrc1	arginine/serine-rich coiled-coil 1	De-Repressed
10530633	Sgcb	sarcoglycan, beta (dystrophin-associated glycoprotein)	De-Repressed
10421172	Slc25a37	solute carrier family 25, member 37	De-Repressed
10414612	Slc39a2	solute carrier family 39 (zinc transporter), member 2	De-Repressed

10388782	Snord42a	ncrna:snoRNA chromosome:NCBIM37:11:7 7994801:77994865:-1 gene:ENSMUSG000000645 40	De-Repressed
10492102	Spg20	spastic paraplegia 20, spartin (Troyer syndrome) homolog (human)	De-Repressed
10490078	Sumo1	SMT3 suppressor of mif two 3 homolog 1 (yeast)	De-Repressed
10458424	Taf7	TAF7 RNA polymerase II, TATA box binding protein (TBP)-associated factor (Taf7), mRNA; TAF7 RNA polymerase II, TATA box binding protein (TBP)- associated factor (Taf7), mRNA	De-Repressed
10380285	Tmem100	transmembrane protein 100 (Tmem100), mRNA	De-Repressed
10481949	Traf1	Tnf receptor-associated factor 1	De-Repressed
10362129	Vnn3	vanin 3	De-Repressed
10355998	A830043J08Rik	RIKEN cDNA A830043J08 gene (A830043J08Rik), mRNA	Hyper- Repressed
10556463	Arntl	aryl hydrocarbon receptor nuclear translocator-like	Hyper- Repressed
10375313	Ccnjl	cyclin J-like	Hyper- Repressed
10389738	Dgke	diacylglycerol kinase, epsilon	Hyper- Repressed
10534343	Eln	elastin	Hyper- Repressed
10389177	Mmp28	matrix metalloproteinase 28 (epilysin)	Hyper- Repressed
10345675	Npas2	neuronal PAS domain protein 2	Hyper- Repressed
10538247	Npy	neuropeptide Y	Hyper- Repressed
10559784	Olf1347	olfactory receptor 1347	Hyper- Repressed
10389775	Pctp	phosphatidylcholine transfer protein	Hyper- Repressed

10439321	Slc15a2	solute carrier family 15 (H+/peptide transporter), member 2 (Slc15a2), mRNA	Hyper-Repressed
10573956	Slc6a2	solute carrier family 6 (neurotransmitter transporter, noradrenalin), member 2 (Slc6a2), mRNA	Hyper-Repressed
10382328	Sox9	SRY-box containing gene 9 (Sox9), mRNA	Hyper-Repressed
10529264	Spon2	spondin 2, extracellular matrix protein (Spon2), mRNA	Hyper-Repressed
10387368	Tmem88	transmembrane protein 88 (Tmem88), mRNA	Hyper-Repressed
10388880	Tmem97	transmembrane protein 97 (Tmem97), mRNA	Hyper-Repressed
10544348	Trpv6	transient receptor potential cation channel, subfamily V, member 6	Hyper-Repressed

Supplemental Table 3. Network nodes in the IL-12/IFN γ pathway as identified in Figure 2B

Entrez Gene ID	Symbol	Description
226421	5430435G22RIK	RIKEN cDNA 5430435G22 gene
11629	AIF1	allograft inflammatory factor 1
27052	AOAH	acyloxyacyl hydrolase (neutrophil)
50909	C1R	complement component 1, r subcomponent
239319	CARD6	caspase recruitment domain family, member 6
20290	CCL1	chemokine (C-C motif) ligand 1
100043918	CCL19	chemokine (C-C motif) ligand 19
65956	CCL21	chemokine (C-C motif) ligand 21
20302	CCL3L3	chemokine (C-C motif) ligand 3-like 3
225825	CD226	CD226 molecule
60533	CD274	CD274 molecule
12575	CDKN1A	cyclin-dependent kinase inhibitor 1A (p21, Cip1)
15945	CXCL10	chemokine (C-X-C motif) ligand 10
20310	CXCL3	chemokine (C-X-C motif) ligand 3
17329	CXCL9	chemokine (C-X-C motif) ligand 9
26417/26413	ERK1/2	mitogen-activated protein kinase 1/3
14131	Fcgr3	Fc receptor, IgG, low affinity III
246256	FCGR3A	Fc fragment of IgG, low affinity IIIa, receptor (CD16a)
14190	FGL2	fibrinogen-like 2
14256	FLT3LG	fms-related tyrosine kinase 3 ligand
14455	GAS5	growth arrest-specific 5 (non-protein coding)
14469	GBP2	guanylate binding protein 2, interferon-inducible
55932	GBP4 (includes EG:115361)	guanylate binding protein 4
17472	GBP4 (includes EG:17472)	guanylate binding protein 4
229898	GBP5	guanylate binding protein 5
634650	GBP6	guanylate binding protein family, member 6
229900	GBP7	guanylate binding protein 7
76074	GBP8	guanylate-binding protein 8
74558	GVIN1	GTPase, very large interferon inducible 1, pseudogene
14939	GZMB	granzyme B (granzyme 2, cytotoxic T-lymphocyte-associated serine esterase 1)

15464	HRC	histidine rich calcium binding protein
15930	IDO1	indoleamine 2,3-dioxygenase 1
226695	IFI16	interferon, gamma-inducible protein 16
15950	IFI203	interferon activated gene 203
15953	IFI47	interferon gamma inducible protein 47
15977	IFNB1	interferon, beta 1, fibroblast
15978	IFNG	interferon, gamma
N/A	Iga	Immunoglobulin A
N/A	Ige	Immunoglobulin E
N/A	IgG	Immunoglobulin G
N/A	Igm	Immunoglobulin M
60440	IIGP1	interferon inducible GTPase 1
N/A	IL12 (complex)	Interleukin 12 (complex)
N/A	Il12 receptor	Interleukin 12 receptor
16162	IL12RB2	interleukin 12 receptor, beta 2
16173	IL18	interleukin 18 (interferon-gamma-inducing factor)
215257	IL1F9	interleukin 1 family, member 9
209590	IL23R	interleukin 23 receptor
16362	IRF1	interferon regulatory factor 1
15944	IRGM	immunity-related GTPase family, M
54396	IRGM2	immunity-related GTPase family M member 2
17167	MARCO	macrophage receptor with collagenous structure
195046	NLRP1	NLR family, pyrin domain containing 1
216799	NLRP3	NLR family, pyrin domain containing 3
246727	OAS3	2'-5'-oligoadenylate synthetase 3, 100kDa
18405	ORM1	orosomucoid 1
18628	PER3	period homolog 3 (Drosophila)
27218	SLAMF1	signaling lymphocytic activation molecule family member 1
67712	SLC25A37	solute carrier family 25, member 37
20568	SLPI	secretory leukocyte peptidase inhibitor
20586	SMARCA4	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 4
57765	TBX21	T-box 21
21816	TGM1	transglutaminase 1 (K polypeptide epidermal type I, protein-glutamine-gamma-glutamyltransferase)
21822	TGTP1	T-cell specific GTPase 1
N/A	TH1 Cytokine	TH1 Cytokine

24086	TLR2	toll-like receptor 2
76757	TRDN	triadin
83433	TREM2	triggering receptor expressed on myeloid cells 2

Supplemental Table 4. Human genes whose expression patterns are highly similar to that of miR-21 host gene

Entrez Gene ID	Gene Symbol	Description
60	ACTB	actin, beta
87	ACTN1	actinin, alpha 1
10097	ACTR2	ARP2 actin-related protein 2 homolog (yeast)
10096	ACTR3	ARP3 actin-related protein 3 homolog (yeast)
10096	ACTR3	ARP3 actin-related protein 3 homolog (yeast)
8754	ADAM9	ADAM metallopeptidase domain 9
196	AHR	aryl hydrocarbon receptor
240	ALOX5	arachidonate 5-lipoxygenase
241	ALOX5AP	arachidonate 5-lipoxygenase-activating protein
301	ANXA1	annexin A1
302	ANXA2	annexin A2
304	ANXA2P2	annexin A2 pseudogene 2
397	ARHGDI3	Rho GDP dissociation inhibitor (GDI) beta
10095	ARPC1B	actin related protein 2/3 complex, subunit 1B, 41kDa
10092	ARPC5	actin related protein 2/3 complex, subunit 5, 16kDa
467	ATF3	activating transcription factor 3
8553	BHLHE40	basic helix-loop-helix family, member e40
151579	BZW1P2	basic leucine zipper and W2 domains 1 pseudogene 2
84419	C15orf48	chromosome 15 open reading frame 48
84419	C15orf48	chromosome 15 open reading frame 48
714	C1QC	complement component 1, q subcomponent, C chain
715	C1R	complement component 1, r subcomponent
716	C1S	complement component 1, s subcomponent
822	CAPG	capping protein (actin filament), gelsolin-like
834	CASP1	caspase 1, apoptosis-related cysteine peptidase (interleukin 1, beta, convertase)
841	CASP8	caspase 8, apoptosis-related cysteine peptidase
831	CAST	calpastatin
6347	CCL2	chemokine (C-C motif) ligand 2
965	CD58	CD58 molecule
942	CD86	CD86 molecule
1051	CEBPB	CCAAT/enhancer binding protein (C/EBP), beta
51192	CKLF	chemokine-like factor
64581	CLEC7A	C-type lectin domain family 7, member A
1192	CLIC1	chloride intracellular channel 1
51727	CMPK1	cytidine monophosphate (UMP-CMP) kinase 1, cytosolic
1290	COL5A2	collagen, type V, alpha 2

1293	COL6A3	collagen, type VI, alpha 3
23603	CORO1C	coronin, actin binding protein, 1C
1452	CSNK1A1	casein kinase 1, alpha 1
1490	CTGF	connective tissue growth factor
115908	CTHRC1	collagen triple helix repeat containing 1
1508	CTSB	cathepsin B
1520	CTSS	cathepsin S
2920	CXCL2	chemokine (C-X-C motif) ligand 2
1535	CYBA	cytochrome b-245, alpha polypeptide
3491	CYR61	cysteine-rich, angiogenic inducer, 61
79139	DERL1	Der1-like domain family, member 1
1843	DUSP1	dual specificity phosphatase 1
1847	DUSP5	dual specificity phosphatase 5
30844	EHD4	EH-domain containing 4
1997	ELF1	E74-like factor 1 (ets domain transcription factor)
22936	ELL2	elongation factor, RNA polymerase II, 2
2012	EMP1	epithelial membrane protein 1
9780	FAM38A	family with sequence similarity 38, member A
2207	FCER1G	Fc fragment of IgE, high affinity I, receptor for; gamma polypeptide
2212	FCGR2A	Fc fragment of IgG, low affinity IIa, receptor (CD32)
9103	FCGR2C	Fc fragment of IgG, low affinity IIc, receptor for (CD32) (gene/pseudogene)
11259	FILIP1L	filamin A interacting protein 1-like
2335	FN1	fibronectin 1
2353	FOS	FBJ murine osteosarcoma viral oncogene homolog
2355	FOSL2	FOS-like antigen 2
2357	FPR1	formyl peptide receptor 1
2359	FPR3	formyl peptide receptor 3
2706	GJB2	gap junction protein, beta 2, 26kDa
11010	GLIPR1	GLI pathogenesis-related 1
2752	GLUL	glutamate-ammonia ligase
1880	GPR183	G protein-coupled receptor 183
9052	GPRC5A	G protein-coupled receptor, family C, group 5, member A
9555	H2AFY	H2A histone family, member Y
3020	H3F3A	H3 histone, family 3A
1839	HBEGF	heparin-binding EGF-like growth factor
3113	HLA-DPA1	major histocompatibility complex, class II, DP alpha 1
3118	HLA-DQA2	major histocompatibility complex, class II, DQ alpha 2
3122	HLA-DRA	major histocompatibility complex, class II, DR alpha
3383	ICAM1	intercellular adhesion molecule 1

8870	IER3	immediate early response 3
10437	IFI30	interferon, gamma-inducible protein 30
10581	IFITM2	interferon induced transmembrane protein 2 (1-8D)
10410	IFITM3	interferon induced transmembrane protein 3 (1-8U)
3459	IFNGR1	interferon gamma receptor 1
3460	IFNGR2	interferon gamma receptor 2 (interferon gamma transducer 1)
3597	IL13RA1	interleukin 13 receptor, alpha 1
9235	IL32	interleukin 32
3566	IL4R	interleukin 4 receptor
3624	INHBA	inhibin, beta A
8826	IQGAP1	IQ motif containing GTPase activating protein 1
3688	ITGB1	integrin, beta 1 (fibronectin receptor, beta polypeptide, antigen CD29 includes MDF2, MSK12)
3689	ITGB2	integrin, beta 2 (complement component 3 receptor 3 and 4 subunit)
3725	JUN	jun proto-oncogene
3726	JUNB	jun B proto-oncogene
11015	KDEL3	KDEL (Lys-Asp-Glu-Leu) endoplasmic reticulum protein retention receptor 3
1316	KLF6	Kruppel-like factor 6
7805	LAPTM5	lysosomal protein transmembrane 5
3956	LGALS1	lectin, galactoside-binding, soluble, 1
3976	LIF	leukemia inhibitory factor (cholinergic differentiation factor)
4000	LMNA	lamin A/C
541471	LOC541471	hypothetical LOC541471
7940	LST1	leukocyte specific transcript 1
56925	LXN	latexin
4069	LYZ	lysozyme
23764	MAFF	v-maf musculoaponeurotic fibrosarcoma oncogene homolog F (avian)
7851	MALL	mal, T-cell differentiation protein-like
1326	MAP3K8	mitogen-activated protein kinase kinase kinase 8
4170	MCL1	myeloid cell leukemia sequence 1 (BCL2-related)
9645	MICAL2	microtubule associated monooxygenase, calponin and LIM domain containing 2
406991	MIR21	microRNA 21
4327	MMP19	matrix metalloproteinase 19
9019	MPZL1	myelin protein zero-like 1
9961	MVP	major vault protein

4627	MYH9	myosin, heavy chain 9, non-muscle
26509	MYOF	myoferlin
10135	NAMPT	nicotinamide phosphoribosyltransferase
283131	NEAT1	nuclear paraspeckle assembly transcript 1 (non-protein coding)
4783	NFIL3	nuclear factor, interleukin 3 regulated
64332	NFKBIZ	nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, zeta
4837	NNMT	nicotinamide N-methyltransferase
7262	PHLDA2	pleckstrin homology-like domain, family A, member 2
5328	PLAU	plasminogen activator, urokinase
5329	PLAUR	plasminogen activator, urokinase receptor
5359	PLSCR1	phospholipid scramblase 1
10631	POSTN	periostin, osteoblast specific factor
5699	PSMB10	proteasome (prosome, macropain) subunit, beta type, 10
7803	PTP4A1	protein tyrosine phosphatase type IVA, member 1
29108	PYCARD	PYD and CARD domain containing
5861	RAB1A	RAB1A, member RAS oncogene family
11031	RAB31	RAB31, member RAS oncogene family
5880	RAC2	ras-related C3 botulinum toxin substrate 2 (rho family, small GTP binding protein Rac2)
5918	RARRES1	retinoic acid receptor responder (tazarotene induced) 1
5996	RGS1	regulator of G-protein signaling 1
388	RHOB	ras homolog gene family, member B
389	RHOC	ras homolog gene family, member C
6039	RNASE6	ribonuclease, RNase A family, k6
284996	RNF149	ring finger protein 149
57674	RNF213	ring finger protein 213
6237	RRAS	related RAS viral (r-ras) oncogene homolog
861	RUNX1	runt-related transcription factor 1
6281	S100A10	S100 calcium binding protein A10
6282	S100A11	S100 calcium binding protein A11
729659	S100A11P1	S100 calcium-binding protein A14 (calgizzarin)
140576	S100A16	S100 calcium binding protein A16
6277	S100A6	S100 calcium binding protein A6
6280	S100A9	S100 calcium binding protein A9
64092	SAMSN1	SAM domain, SH3 domain and nuclear localization signals 1
6303	SAT1	spermidine/spermine N1-acetyltransferase 1
55829	SELS	selenoprotein S

5054	SERPINE1	serpin peptidase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1), member 1
871	SERPINH1	serpin peptidase inhibitor, clade H (heat shock protein 47), member 1, (collagen binding protein 1)
6446	SGK1	serum/glucocorticoid regulated kinase 1
83442	SH3BGR1 3	SH3 domain binding glutamic acid-rich protein like 3
51100	SH3GLB1	SH3-domain GRB2-like endophilin B1
9021	SOCS3	suppressor of cytokine signaling 3
6648	SOD2	superoxide dismutase 2, mitochondrial
58472	SQRDL	sulfide quinone reductase-like (yeast)
5552	SRGN	serglycin
6774	STAT3	signal transducer and activator of transcription 3 (acute-phase response factor)
9262	STK17B	serine/threonine kinase 17b
23213	SULF1	sulfatase 1
8407	TAGLN2	transgelin 2
6892	TAPBP	TAP binding protein (tapasin)
30851	TAX1BP3	Tax1 (human T-cell leukemia virus type I) binding protein 3
7045	TGFBI	transforming growth factor, beta-induced, 68kDa
7050	TGIF1	TGFB-induced factor homeobox 1
7052	TGM2	transglutaminase 2 (C polypeptide, protein-glutamine-gamma-glutamyltransferase)
7057	THBS1	thrombospondin 1
7076	TIMP1	TIMP metalloproteinase inhibitor 1
4071	TM4SF1	transmembrane 4 L six family member 1
56889	TM9SF3	transmembrane 9 superfamily member 3
54499	TMCO1	transmembrane and coiled-coil domains 1
23585	TMEM50A	transmembrane protein 50A
7128	TNFAIP3	tumor necrosis factor, alpha-induced protein 3
51330	TNFRSF12 A	tumor necrosis factor receptor superfamily, member 12A
7132	TNFRSF1 A	tumor necrosis factor receptor superfamily, member 1A
7168	TPM1	tropomyosin 1 (alpha)
7171	TPM4	tropomyosin 4
23471	TRAM1	translocation associated membrane protein 1
7204	TRIO	triple functional domain (PTPRF interacting)
8673	VAMP8	vesicle-associated membrane protein 8 (endobrevin)
1462	VCAN	versican
7533	YWHAH	tyrosine 3-monooxygenase/tryptophan 5-

		monooxygenase activation protein, eta polypeptide
7534	YWHAZ	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, zeta polypeptide
80149	ZC3H12A	zinc finger CCCH-type containing 12A
7538	ZFP36	zinc finger protein 36, C3H type, homolog (mouse)