

**Table S1: Liver genes regulated by the RLR and Type I IFN signaling pathways**

<u>RLR-dependent</u>	<u>Type I IFN-dependent</u>	<u>RLR- and Type I IFN-dependent</u>
1110032L06Rik	1110032L06Rik	1110032L06Rik
1190002F15Rik	1190002F15Rik	1190002F15Rik
1600017P15Rik	1600017P15Rik	1600017P15Rik
1700007K13Rik	1700026L06Rik	1700007K13Rik
1700025G04Rik	1700029J07Rik	1700025G04Rik
1700029I01Rik	2010317E24Rik	1700026L06Rik
1700029J07Rik	2310002F09Rik	1700029I01Rik
1810012P15Rik	2810408P10Rik	1700029J07Rik
1810013L24Rik	2810416G20Rik	1810013L24Rik
2010111I01Rik	2810417H13Rik	2310002F09Rik
2010317E24Rik	2810454L23Rik	2810408P10Rik
2310002F09Rik	2900072G19Rik	2810417H13Rik
2810408P10Rik	3110082D06Rik	2900009J20Rik
2810416G20Rik	3830403N18Rik	2900072G19Rik
2810417H13Rik	4930415C11Rik	3110082D06Rik
2810454L23Rik	4930434E21Rik	3830403N18Rik
2900009J20Rik	4930535E02Rik	4930415C11Rik
2900072G19Rik	4930562F07Rik	4930434E21Rik
3830403N18Rik	4930567H12Rik	4930486L24Rik
4633401B06Rik	4933408J17Rik	4930524L23Rik
4833417J20Rik	5730488B01Rik	4930535E02Rik
4930415C11Rik	6430500C12Rik	4930562F07Rik
4930434E21Rik	6530418L21Rik	4930567H12Rik
4930524L23Rik	8430419K02Rik	4933408J17Rik
4930535E02Rik	9330174C13Rik	5430427O19Rik
4930562F07Rik	9430083B18Rik	5430435G22Rik
4930567H12Rik	9530083O12Rik	5730488B01Rik
4933408J17Rik	9630055L06Rik	6430500C12Rik
5430435G22Rik	A530023O14Rik	6530418L21Rik
5730488B01Rik	Abi3	6720475J19Rik
6430500C12Rik	Acap1	9330174C13Rik
6530418L21Rik	Acot6	9430083B18Rik
6720475J19Rik	Adam12	9530028C05
8430419K02Rik	Adcy7	9530083O12Rik
9330174C13Rik	Adrb1	9630055L06Rik
9430083B18Rik	Al504432	A430084P05Rik
9530028C05	Alk	A530032D15Rik
9530083O12Rik	Amy1	Abcg1
9630055L06Rik	Arhgap15	Abhd8
A530023O14Rik	Arhgap36	Abi3
Abcg1	Arhgap9	Acap1
Abhd8	Asb2	Acot6
Abi3	AV039307	Acvrl1
Acvrl1	AV249152	Adam12
Adam12	B3galnt1	Adcy1
Adam23	B930095I24Rik	Adcy7
Adcy1	BB431852	Adrb1
Adcy7	BC055324	AF251705
Adrb1	Birc5	Agtrap
AF251705	Btbd16	Al504432
Agtrap	Bub1b	Aif1
Al504432	C1qa	Aldh3b1
Alk	C1qb	Alk
Amy1	C1qc	Amy1
Arhgap36	C230052I12Rik	Arhgap15

<b>RLR-dependent</b>	<b>Type I IFN-dependent</b>	<b>RLR- and Type I IFN-dependent</b>
Arhgap9	C5ar1	Arhgap25
Armc7	Cacna1c	Arhgap30
Asb2	Camk2b	Arhgap36
Aurka	Card11	Arhgap9
Aurkb	Cbr2	Armc7
AV039307	Ccdc106	AV039307
AV249152	Ccdc67	AV249152
B3galnt1	Ccna2	Axl
B430306N03Rik	Ccnb1	B3galnt1
B930095I24Rik	Ccnb2	B430306N03Rik
BB431852	Ccr5	B930095I24Rik
BC023105	Ccr8	Batf3
BC055324	Cd180	BB431852
Bcl2a1b	Cd200r1	BC013712
Birc5	Cd300ld	BC023105
Btbd16	Cd5l	BC055324
Bub1b	Cd72	Bcl2a1b
C130026I21Rik	Cd84	Bst2
C1qb	Cdc25b	Btbd16
C1qtnf3	Cdca5	Btk
C230052I12Rik	Cdca8	Bub1b
C5ar1	Cdk1	C130026I21Rik
Cacna1c	Genpe	C1qa
Camk2b	Chrn2	C1qb
Casp4	Ckap2l	C1qc
Cbr2	Ckb	C1qtnf3
Ccdc106	Clec10a	C230052I12Rik
Ccdc67	Clec1b	C5ar1
Ccl2	Clec4a2	Cacna1c
Ccl3	Clec4a3	Camk2b
Ccl4	Clec4b1	Card11
Ccl6	Clec7a	Casp1
Ccna2	Clspn	Ccdc106
Ccnb1	Col13a1	Ccdc67
Ccnb2	Crtc3	Ccdc88b
Ccr8	Cryba4	Ccr5
Cd180	Cxcl13	Ccr8
Cd200r1	Cysltr2	Cd180
Cd300a	Cyth4	Cd200r1
Cd300ld	D730047E02Rik	Cd300a
Cd5l	Dbf4	Cd300e
Cdc25b	Dck	Cd300ld
Cdc7	Defb1	Cd44
Cdca2	Depdc1a	Cd48
Cdca5	Dlgap5	Cd52
Cdca8	Dnahc5	Cd53
Cdk1	Dock10	Cd5l
Cdkn3	Dppa3	Cd84
Genpe	Dscc1	Cd86
Genpi	Dse	Cdkn3
Cerk	Dync2h1	Cds1
Cfp	E030037K03Rik	Cfp
Chrn2	E2f2	Chit1
Ciita	Efcab3	Chrn2
Ckap2l	Emr1	Ciita
Ckb	Emr4	Clec10a
Clec10a	Epsti1	Clec1b

<b>RLR-dependent</b>	<b>Type I IFN-dependent</b>	<b>RLR- and Type I IFN-dependent</b>
Clec4f	Etaa1	Clec4a2
Clspn	Evi2a	Clec4a3
Col13a1	Exosc7	Clec4b1
Col4a1	Expi	Clec7a
Cpt1a	Fam105a	Cmpk2
Crtc3	Fancd2	Col13a1
Cryba4	Fanci	Crtc3
Cx3cr1	Fbxo45	Cryba4
Cxcl13	Fgd2	Ctla2b
Cyp4a10	Filip11	Ctss
Cysltr2	Fmr1nb	Cxcl10
D17H6S56E-5	Frmd4a	Cxcl13
D730047E02Rik	Frmd5	Cxcl9
Dbf4	Fut7	Cybb
Dck	Gabra2	Cysltr2
Defb1	Galnt6	Cyth4
Depdc1a	Gbgt1	D14Ertd668e
Dnahc5	Gins2	D17H6S56E-5
Dock10	Gja6	D730047E02Rik
Dppa3	Glipr1	Dck
Dscc1	Gm14025	Ddx58
Dse	Gm3740	Defb1
Dusp8	Gm4870	Dhx58
Dync2h1	Gm4907	Dlgap5
E2f2	Gm8995	Dock10
Edn1	Gnaz	Dock2
Efcab3	Gprasp1	Dok2
Eif2ak3	Gtse1	Dppa3
Eml6	Gzma	Dse
Emr4	Hist3h2ba	Dync2h1
Enox1	Hpgds	E030037K03Rik
Epb4.1l3	Hrh1	Ear1
Ero1lb	Hsh2d	Ear10
Etaa1	Il10	Ebi3
Exosc5	Incenp	Edn1
Exosc7	Iqch	Efcab3
Expi	Kcna3	Eif2ak2
Fabp7	Kif14	Emr1
Fam105a	Kif18b	Emr4
Fam55d	Kif20a	Enox1
Fanci	Kif20b	Entpd1
Fastkd1	Kif2c	Epb4.1l3
Fbxl17	Kif4	Epsti1
Fbxo45	Kiss1	Ero1lb
Filip11	Klra12	Etaa1
Fmr1nb	Klra15	Evi2a
Folr2	Klra16	Evl
Frmd4a	Klra23	Exosc5
Frmd5	Klra7	Exosc7
Fut7	Klrk1	Expi
Fzd5	Krt85	Fabp7
G6pdx	Lamp3	Fam105a
Gabra2	Lancl3	Fam129a
Galnt6	Laptm5	Fanci
Gbgt1	Lce1e	Fbxo45
Gbp6	Lgr4	Fbxw17
Ggnbp1	Lilra5	Fcer1g

<b>RLR-dependent</b>	<b>Type I IFN-dependent</b>	<b>RLR- and Type I IFN-dependent</b>
Gins2	LOC100045212	Fcgr1
Gja6	Lpxn	Fcgr4
Glipr1	Lrrc25	Fermt3
Gm11428	Lysmd4	Fgd2
Gm11545	Mchr1	Fgl2
Gm13157	Mep1b	Filip11
Gm14025	Mill2	Fmr1nb
Gm3740	Minpp1	Folr2
Gm4870	Mlf1ip	Fpr1
Gm4907	Mrc2	Frm4a
Gm5933	Mtap2	Frm5
Gm6484	Mto1	Fut7
Gm71	Mx1	Fyb
Gm8995	Mxd3	Fzd5
Gnaz	Mybpc2	G6pdx
Gpr35	Myo1a	Gabra2
Grin2b	Naip5	Galnt6
Gtse1	Ncapg	Gbgt1
Havcr2	Ncapg2	Gbp2
Hist3h2ba	Ncr1	Gbp3
Hpgds	Ndc80	Gbp5
Hrh1	Neil3	Gbp6
Hsh2d	Nell1	Gbp8
Ifi203	Nrg3	Gbp9
Ifi2712b	Nusap1	Ggnbp1
Il10	Olfr1136	Gja6
Il10ra	Olfr1294	Glipr1
Iqch	Olfr1377	Gm11428
Irak3	Olfr1462	Gm11545
Kcna3	Olfr365	Gm12250
Kif12	Olfr466	Gm14025
Kif14	Olfr560	Gm14446
Kif18b	Olfr591	Gm1966
Kif20a	Olfr888	Gm2397
Kif20b	Olfr934	Gm3740
Kif22	Onecut3	Gm4907
Kif2c	Pabpc1	Gm5431
Kif4	Panx3	Gm5933
Kiss1	Pask	Gm6484
Klra15	Pbk	Gm7035
Krt85	Pcdhb17	Gm71
Lamp3	Pdlim4	Gm8995
Lancl3	Pira6	Gng2
Lce1e	Pitx1	Gngt2
Lcn2	Pkd112	Gprasp1
Lgmn	Pld4	Gtpbp10
Lgr4	Plk1	Gtse1
Lhx1	Plk4	Gvin1
Lilrb3	Pou3f1	Gzma
Lilrb4	Ppfia4	Gzmb
Lpcat2	Ppp1r14c	H2-M3
Lpxn	Ppp1r1a	H2-Q8
Lrrc25	Pram1	H2-T22
Lysmd4	Prex2	H2-T24
Mchr1	Pri2c5	Hck
Mcoln2	Prss52	Hcls1
Med12l	Psg22	Herc5

<b>RLR-dependent</b>	<b>Type I IFN-dependent</b>	<b>RLR- and Type I IFN-dependent</b>
Mep1b	Psrc1	Hk3
Mill2	Ptgdr	Hpgds
Minpp1	Ptgs1	Hrh1
Mlf1ip	Ptprr	Hsh2d
Mll2	Rab19	I830012O16Rik
Mrc2	Rab39	Ifi204
Ms4a7	Racgap1	Ifi205
Mtap2	Rad54b	Ifi2711
Mto1	Rel	Ifi2712b
Mxd3	Rgs14	Ifi30
Mybpc2	Rgs2	Ifi44
Myo1a	Rhoh	Ifi47
Naip5	Rnd3	Ifit1
Ncapg	Ryr3	Ifit2
Ncapg2	Sash1	Ifitm7
Ndc80	Sash3	Il10
Neil3	Sat1	Il10ra
Nell1	Scg5	Il18bp
Niacr1	Sfpi1	Il2rg
Nrg3	Sgol2	Iqch
Nudt6	Sidt1	Irf7
Nusap1	Siglec1	Irf9
Oas1b	Skint9	Irgm1
Olfr1136	Slc37a2	Irgm2
Olfr1294	Slc5a11	Isg15
Olfr1377	Slc6a18	Itgal
Olfr1462	Smc1b	Kcna3
Olfr365	Sp100	Kif12
Olfr466	Spag16	Kif18b
Olfr560	Spnb1	Kif2c
Olfr591	Sprr2k	Kiss1
Olfr888	Stat5a	Klra12
Olfr934	Sv2a	Klra15
Onecut3	Svs3a	Klra16
Pabpc1	Syt13	Klra2
Panx3	Tacc3	Klra23
Pbk	Tbxas1	Klra7
Pcdhb17	Tcstv1	Klrk1
Pdk4	Tlr7	Krt85
Pdlim4	Tmem229a	Lair1
Pilra	Tmem229b	Lamp3
Pilrb1	Tmem26	Lce1e
Pilrb2	Tmem86a	Lcp2
Pira2	Tnfrsf11a	Lgals3bp
Pira6	Tpx2	Lgr4
Pitx1	Ubc	Lilra5
Pkd1l2	Ube2c	Lilrb4
Pkib	Vmn1r193	LOC100045212
Plekha2	Vmn1r5	Lpcat2
Plk1	Wdfy4	Lpxn
Plk4	Xcr1	Lrrc25
Ppap2b	Xlr	Lst1
Ppp1r14c	Zfp516	Ly6a
Ppp1r1a	Zfp711	Ly6e
Prex2	Zfp862	Ly86
Prl2c5		Ly9
Prss52		Lysmd4

**RLR-dependent**

Psg22  
Psrc1  
Ptgdr  
Ptplad2  
Ptpn22  
Ptpr  
Pyhin1  
Rab37  
Racgap1  
Rad54b  
Rapgef2  
Rcan3  
Rel  
Rgs1  
Rhpn2  
Rinl  
Rnd3  
Ryr3  
Samsn1  
Sash1  
Sat1  
Scg5  
Sgol2  
Sidt1  
Sirpa  
Skint9  
Sla  
Slc15a3  
Slc37a2  
Slc40a1  
Slc6a18  
Slc7a8  
Spag16  
Spnb1  
Sprr2k  
Stat5a  
Sv2a  
Svs3a  
Sybu  
Syt13  
Tacc3  
Tbxas1  
Tcstv1  
Tfg  
Timd4  
Tlr2  
Tlr3  
Tlr6  
Tmem229a  
Tmem229b  
Tmem26  
Tmem44  
Tmem67  
Tmem86a  
Tmsb10  
Tnf  
Top2a

**RLR- and Type I IFN-dependent**

March1  
Marco  
Mchr1  
Mcoln2  
Med12l  
Mep1b  
Minpp1  
Mlf1ip  
Mll2  
Mnda  
Mpa2l  
Mpeg1  
Mrc2  
Ms4a4b  
Ms4a4c  
Ms4a4d  
Ms4a6b  
Ms4a6c  
Ms4a6d  
Ms4a7  
Msr1  
Mtap2  
Mx1  
Mx2  
Mybpc2  
Myo1a  
Naip5  
Nckap1l  
Ncoa7  
Ncr1  
Ndc80  
Nell1  
Nkg7  
Nrg3  
Nudt6  
Oas1a  
Oas1b  
Oas1f  
Oas3  
Oasl1  
Oasl2  
Olfr1136  
Olfr1294  
Olfr1377  
Olfr1462  
Olfr365  
Olfr466  
Olfr560  
Olfr591  
Olfr888  
Olfr934  
Onecut3  
P2ry13  
Pabpc1  
Panx3  
Pard3b  
Pbk

**RLR-dependent**

Tpx2  
Trem14  
Trim68  
Trpv2  
Tspyl5  
Tyrobp  
Ubc  
Ube2c  
Uck1  
Vasp  
Vmn1r193  
Vmn1r5  
Vti1a  
Was  
Xlr  
Zfp516  
Zfp711  
Zfp862  
Zfp9

**RLR- and Type I IFN-dependent**

Pdk4  
Pdlim4  
Phf11  
Pik3cd  
Pilra  
Pilrb1  
Pilrb2  
Pira6  
Pitx1  
Pkd112  
Pkib  
Pla2g4a  
Pld4  
Plekha2  
Plk4  
Pou3f1  
Ppap2b  
Ppfia4  
Ppp1r1a  
Prex2  
Pr12c5  
Prss52  
Psg22  
Psmb8  
Ptgdr  
Ptplad2  
Ptprc  
Ptpr  
Pyhin1  
Rab19  
Rab37  
Rab39  
Rac2  
Racgap1  
Rad54b  
Rcan3  
Rel  
Rgs2  
Rhoh  
Rhpn2  
Rinl  
Rnd3  
Rtp4  
Ryr3  
Sash1  
Serpina3g  
Sfpi1  
Sgcb  
Shisa5  
Sidt1  
Siglec1  
Sirpa  
Skint9  
Slamf9  
Slc11a1  
Slc15a3  
Slc37a2

## **RLR- and Type I IFN-dependent**

Slc40a1  
Slc5a11  
Slc6a18  
Slc7a8  
Slfn1  
Slfn8  
Slfn9  
Smc1b  
Soat1  
Sp100  
Sp110  
Spag16  
Spic  
Spcb1  
Stat1  
Stat2  
Stat5a  
Stox2  
Sv2a  
Svs3a  
Sybu  
Syt13  
Tap1  
Tbxas1  
Tcfec  
Tcstv1  
Tfg  
Tgtp1  
Timd4  
Tlr1  
Tlr2  
Tlr3  
Tlr7  
Tmem229a  
Tmem229b  
Tmem26  
Tmem67  
Tmem86a  
Tmsb4x  
Tnfrsf11a  
Tnfrsf14  
Tor3a  
Trem14  
Trex1  
Trim30  
Trim68  
Trim79  
Tspyl5  
Tyrobp  
Ubc  
Ube2c  
Ube2l6  
Uck1  
Usp18  
Vav1  
Vcam1  
Vmn1r193



**RLR- and Type I IFN-dependent**

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Vmn1r5

Was

Wipf1

Xaf1

Xcr1

Xlr

Zbp1

Zfp516

Zfp711

Znfx1