

Table S2: List of downregulated genes in response to activation of LAD2 cells by A549-TMV (fold change, >-2; P < 0.05.)

Gene name	Fold change	P-value
TK1	-8.45245	1.10E-87
MKI67	-8.24437	1.89E-113
TOP2A	-7.29947	2.13E-120
RRM2	-7.2316	3.28E-58
TYMS	-6.374	7.67E-112
PRC1	-6.25551	9.18E-83
TROAP	-6.07192	6.58E-52
BUB1B	-6.05145	3.13E-53
PCLAF	-6.04503	3.23E-82
DHFR	-6.00633	7.24E-88
ASF1B	-5.97451	1.71E-116
ZWINT	-5.95396	7.31E-50
CDK1	-5.81778	6.27E-63
NUSAP1	-5.7288	3.31E-58
DERL3	-5.68691	3.16E-44
GTSE1	-5.58355	1.57E-34
SKA1	-5.3577	3.31E-43
KIFC1	-5.31479	3.48E-47
UBE2C	-5.31132	2.56E-69
NCAPG2	-5.30366	1.94E-35
ESPL1	-5.18793	6.57E-30
CENPF	-5.18401	1.65E-58
CENPM	-5.1498	2.43E-37
CDCA5	-5.14721	8.47E-29
ZNF367	-5.1122	2.16E-30
CCNA2	-5.10357	1.19E-56
E2F1	-5.0998	1.49E-43
TMEM97	-5.04279	1.48E-81
CEP55	-5.01077	6.94E-36
CDKN3	-5.00966	1.36E-40
TPX2	-5.00231	1.16E-35
HMMR	-4.99963	4.77E-41
BUB1	-4.89036	8.83E-31
FEN1	-4.83472	4.52E-72
NDC80	-4.79878	3.31E-31
RAD51AP1	-4.79167	1.60E-28
PBK	-4.75663	1.03E-30
ESCO2	-4.75359	6.27E-31
CCNB1	-4.72447	6.37E-52
MELK	-4.69593	1.10E-26
AURKA	-4.6321	8.94E-37
PIMREG	-4.62143	3.06E-27
ASPM	-4.57793	5.10E-32
PKMYT1	-4.56919	3.37E-40

SPC25	-4.51849	8.90E-32
CDCA3	-4.51377	3.82E-24
KIF23	-4.44673	2.04E-25
CDC6	-4.41259	5.94E-25
GGH	-4.39656	2.78E-62
CDCA8	-4.38675	5.13E-32
NUF2	-4.36007	1.25E-35
NCAPG	-4.33852	8.10E-27
PRR11	-4.30153	1.84E-48
MCM5	-4.26704	7.85E-51
HELLS	-4.22062	2.47E-32
CENPK	-4.21386	1.04E-42
RFC3	-4.20748	3.01E-44
CENPW	-4.08753	8.20E-26
SHCBP1	-4.07597	6.62E-39
MCM7	-4.03061	1.05E-85
BIRC5	-3.92396	6.04E-26
GINS2	-3.89752	1.04E-27
TCF19	-3.88305	2.05E-21
KIF4A	-3.86639	8.80E-22
AL109918.1	-3.86337	4.63E-18
FANCA	-3.85518	5.12E-19
KNL1	-3.84755	2.35E-20
KIF18A	-3.83272	3.24E-20
PLK4	-3.79173	2.17E-20
FBXO5	-3.78291	5.33E-24
OIP5	-3.7804	1.05E-18
RAD51	-3.77255	2.12E-21
MAD2L1	-3.74654	1.74E-34
CDC45	-3.71273	2.30E-18
DSCC1	-3.71156	4.04E-19
ATAD2	-3.70434	2.55E-28
ARHGAP11A	-3.70117	2.81E-22
TUBA1B	-3.69597	1.40E-93
CDC25A	-3.68154	7.73E-17
CCNB2	-3.67444	3.44E-29
MCM10	-3.65744	1.26E-18
HJURP	-3.62821	5.49E-21
CIT	-3.62389	1.88E-18
MYBL2	-3.61864	6.82E-17
ANLN	-3.60746	7.04E-16
CENPA	-3.60496	4.12E-18
SGO1	-3.59817	2.65E-21
CHEK1	-3.58823	1.85E-25
TRIP13	-3.56361	1.60E-23
MCM4	-3.54755	1.80E-26
FANCI	-3.53919	2.06E-16
PLK1	-3.53361	1.30E-40

CCDC34	-3.51217	5.84E-17
SKA3	-3.50064	2.23E-16
CKAP2L	-3.4874	5.49E-26
CHAF1A	-3.4716	2.10E-21
HIST1H4C	-3.4464	1.11E-22
CKAP2	-3.41391	3.34E-33
UHRF1	-3.401	2.77E-14
CCNE2	-3.37131	1.57E-18
FASN	-3.36699	2.77E-30
PTTG1	-3.35002	2.34E-40
KIF2C	-3.32026	1.43E-16
SPC24	-3.30877	3.76E-14
ACAT2	-3.30548	1.08E-73
RACGAP1	-3.29303	1.46E-24
FOXM1	-3.28701	6.33E-17
NCAPH	-3.28433	2.28E-15
RAD54B	-3.25717	4.00E-14
H2AFX	-3.23173	4.10E-31
KIF15	-3.21799	6.84E-13
MCM8	-3.2168	3.26E-23
GINS1	-3.20839	1.19E-16
ORC6	-3.2024	2.39E-30
CENPU	-3.19185	4.22E-19
SPAG5	-3.17759	3.25E-15
MCM2	-3.16948	4.48E-36
TACC3	-3.16197	1.47E-26
SMC4	-3.14112	9.68E-41
STMN1	-3.13129	1.56E-54
CKS1B	-3.11731	4.18E-46
CENPE	-3.0993	6.67E-15
KIF11	-3.0952	4.65E-19
CDK2	-3.09292	1.24E-15
RECQL4	-3.09079	2.24E-14
PSMC3IP	-3.0876	1.64E-13
FDPS	-3.0824	7.38E-79
CDKN2C	-3.02892	6.20E-32
ATAD5	-3.02513	2.86E-13
NEURL1B	-3.01682	1.23E-11
CLSPN	-2.99189	4.40E-16
WDR76	-2.98172	2.69E-12
DDIAS	-2.96239	4.72E-12
SAPCD2	-2.95908	1.97E-15
UNG	-2.95511	2.32E-21
BRCA1	-2.94454	2.28E-24
PCNA	-2.9327	5.78E-35
RFC4	-2.93121	2.25E-22
UBE2T	-2.91879	1.56E-20
MXD3	-2.88952	2.88E-14

POLD1	-2.88928	6.24E-13
MCM3	-2.88371	1.75E-30
E2F2	-2.86331	2.10E-11
HMGB2	-2.85602	5.55E-29
LIG1	-2.84094	4.15E-17
TTK	-2.83784	2.64E-14
TMEM106C	-2.81356	1.71E-24
EZH2	-2.81279	5.65E-19
KIF14	-2.80914	3.88E-14
C21orf58	-2.79132	1.10E-11
POLE2	-2.78943	1.21E-10
KIAA1524	-2.78779	1.18E-10
SAC3D1	-2.76446	2.62E-21
DDX11	-2.75253	4.07E-16
FAM111B	-2.75069	3.68E-10
CDCA2	-2.70565	9.63E-10
DSN1	-2.7011	8.16E-14
SPDL1	-2.69819	7.62E-12
C4orf46	-2.69458	1.57E-11
RMI2	-2.69357	3.91E-14
HMGCS1	-2.6912	1.85E-81
NUDT8	-2.68997	2.51E-11
PSRC1	-2.68935	2.77E-10
MASTL	-2.66703	6.02E-11
NEK2	-2.64429	1.69E-11
NCAPD2	-2.63608	1.31E-19
RRM1	-2.62975	7.71E-24
FAM83D	-2.6203	2.23E-09
DTL	-2.61082	3.81E-10
LSS	-2.59763	7.01E-22
WEE1	-2.58537	9.84E-16
STIL	-2.57806	8.39E-12
MIS18A	-2.56308	5.65E-13
DIAPH3	-2.55395	5.32E-09
TUBB4B	-2.53006	1.54E-50
KIF20B	-2.51961	4.57E-14
TUBB	-2.5105	2.41E-37
BCL2L12	-2.50658	5.56E-21
DNMT1	-2.49922	1.60E-23
RAD54L	-2.47935	1.88E-08
NRM	-2.47716	3.35E-13
TM7SF2	-2.47646	1.03E-14
SMC2	-2.47017	2.41E-23
CDT1	-2.46659	3.61E-13
AURKB	-2.45746	8.47E-12
POLA2	-2.45665	5.52E-10
POLA1	-2.45561	3.18E-09
TUBA1C	-2.43857	4.18E-44

TEX30	-2.42791	4.02E-14
POLQ	-2.42146	1.59E-08
CCNF	-2.42034	9.38E-10
DLGAP5	-2.41868	6.04E-08
CTPS1	-2.40706	4.96E-08
FIGNL1	-2.40683	2.34E-09
EXO1	-2.40488	7.36E-08
DTYMK	-2.40089	2.33E-15
CDCA7	-2.399	1.58E-11
NET1	-2.39686	2.81E-09
MND1	-2.39274	4.03E-08
BLM	-2.36339	6.09E-10
NUDT15	-2.36041	4.86E-11
PHF19	-2.3514	8.87E-11
CENPO	-2.34902	5.90E-08
CSE1L	-2.34014	4.24E-18
NDC1	-2.32819	6.40E-13
AACS	-2.32336	5.01E-16
MCM6	-2.31722	3.26E-11
CDC20	-2.30541	1.79E-08
SLF1	-2.29843	3.09E-09
TIMELESS	-2.29333	1.27E-14
KIF18B	-2.28394	3.95E-07
KNSTRN	-2.28337	4.98E-12
DHCR7	-2.28335	2.24E-22
RMI1	-2.26531	7.12E-25
EBP	-2.25558	1.45E-46
RBL1	-2.24857	6.50E-09
RDM1	-2.24086	6.35E-07
GMNN	-2.23602	1.68E-12
C16orf59	-2.22633	8.35E-07
EMC3-AS1	-2.22358	3.54E-07
TUBG1	-2.2183	4.98E-14
CARHSP1	-2.21738	9.53E-13
MVK	-2.20784	1.14E-10
NCAPD3	-2.20685	3.61E-12
CHTF18	-2.20653	1.14E-06
ERCC6L	-2.18754	1.57E-06
ELOVL6	-2.18449	2.27E-18
E2F8	-2.17816	1.59E-06
C14orf1	-2.17802	5.47E-40
CEP152	-2.17767	1.55E-08
DEPDC1B	-2.17401	5.99E-12
FADS2	-2.17099	8.23E-28
FANCG	-2.17023	9.03E-15
SNRNP25	-2.16775	9.30E-15
GINS3	-2.1669	1.02E-09
ZWILCH	-2.16388	7.77E-12

SASS6	-2.16294	4.60E-07
HMGCR	-2.16201	1.16E-25
CDKN2A	-2.15701	9.02E-19
AL035461.2	-2.15104	2.51E-06
BARD1	-2.14603	2.43E-09
LMNB2	-2.14542	4.24E-07
CENPN	-2.13333	3.62E-07
NEIL3	-2.1233	3.85E-06
WDR90	-2.12281	2.00E-07
TMPO-AS1	-2.11629	2.35E-06
HES6	-2.10966	4.53E-07
TMPO	-2.10956	1.57E-18
ASRGL1	-2.10539	9.57E-10
DHCR24	-2.10312	2.07E-18
MYBL1	-2.09434	5.76E-06
MNS1	-2.09208	4.02E-06
LRP8	-2.09071	2.18E-11
RNASEH2A	-2.08831	1.66E-16
COQ2	-2.07647	4.06E-06
KMT5A	-2.07163	1.18E-07
HDGF	-2.06255	3.56E-21
WRAP53	-2.06092	1.84E-06
JSRP1	-2.06078	8.02E-13
TYMSOS	-2.05978	8.98E-06
INSIG1	-2.05965	1.40E-36
GEN1	-2.05916	2.23E-08
AC012073.1	-2.05746	7.72E-06
CCDC18	-2.056	2.55E-06
ITGB3BP	-2.05338	3.36E-08
FADS1	-2.05278	2.41E-40
ARHGAP11B	-2.04075	2.77E-06
THOC3	-2.02729	7.19E-13
LRR1	-2.02477	1.72E-12
ECT2	-2.01766	1.23E-05
RAD18	-2.00499	3.24E-06
CENPH	-2.0046	3.84E-08
C9orf40	-2.00167	1.59E-06