

Table 1: Most dynamically changing genes with MLL1 inhibition in OIS

	Fold increase with OIS induction	Fold decrease with MLL1 KD in OIS
ACP5	1.740921408	1.850151049
ACSL5	1.654779543	1.583101346
AGO2	2.26825127	1.712279959
AGTR1	1.515391309	1.705220035
AKAP12	3.085014449	1.582736611
AKR1B1	1.623835711	1.662932423
AMPD3	4.916892624	1.587113784
ANKRD39	1.582291423	1.928465427
ANPEP	4.642876867	1.59024704
AREG	20.82904419	1.727680529
ARID3A	1.595036468	1.616782412
ASB2	2.379232863	1.966808524
ATF3	2.576535699	2.19459965
ATP2B1	1.74474541	1.597336524
ATP5J2-PT	1.583624564	1.52581227
ATP6V0D2	2.962563811	1.931651894
B3GNT5	2.053206857	1.58300849
BAALC	2.41544151	1.53033987
BCL2A1	19.25082998	3.762738244
BIRC3	2.939613851	1.715893321
BTN2A2	2.819198084	1.878388614
C18orf32	1.530121396	1.561882462
C2CD2	3.844550609	1.571969819
C4orf26	2.889588926	1.816082218
C9orf72	1.75372513	1.608789595
CCDC148	1.98651347	1.551014522
CCDC19	2.249652514	1.62711416
CCL20	15.96705141	3.544619689
CCL3	3.071955745	1.694125745
CD274	1.89832359	1.526814018
CD69	2.110716145	1.605330326
CD9	2.229767999	1.651289582
CD97	2.294122848	1.506495299
CDR2L	1.692321029	1.527103531
CEBPD	1.75565793	1.901707538
CHRNA1	2.961065788	1.603159786
CHST2	6.592431445	1.509480844
CLDN14	1.728997595	1.715034344
CLIP2	1.839854683	1.69102744
CMTM1	1.509141504	1.832287025

COL10A1	4.340131914	3.39946281
CORO2B	2.810054061	1.565805717
CSF2	3.274011375	2.319210371
CSF3	3.05958	1.947052007
CSTA	1.590165003	1.860872429
CTSS	7.749503056	2.814422069
CXCL1	13.92948127	5.260733316
CXCL2	7.477863085	4.70100156
CXCL3	10.53051863	6.165937035
CXCL5	33.08167777	14.71234556
CYBA	1.82102102	1.583814759
CYSTM1	1.889218092	1.868824157
DBNDD1	1.914577197	1.65499618
DDIT4L	2.263964026	1.844500747
DIRAS3	5.084319127	1.748179456
DTX2	1.647738604	1.575740327
EREG	14.48925135	1.726634385
ETS2	2.199849686	1.538873724
ETV4	2.569779271	1.527096102
EXOSC4	2.493378707	1.642885403
F2RL1	3.540826697	1.986851085
FAM72D	1.5502494	1.550343711
FCER1G	1.560614862	1.551280936
FERMT1	1.70186961	1.764394294
FJX1	1.980344386	1.530461393
G0S2	8.504481251	1.911825237
GAL	2.334457823	1.773024448
GDF15	4.445321852	1.831287706
GDNF	1.786548354	1.593462431
GEM	1.905215247	1.502236666
GK	3.131877152	2.090869741
GK3P	2.94271436	1.982134436
GNG11	1.89341196	1.782425569
GNG2	1.649645989	1.960528002
GPR183	1.788463776	1.580247333
GPR68	3.296558014	1.687853023
HAPLN4	2.2180426	3.105169981
HEPHL1	2.027080643	1.513111586
HGF	3.617754417	1.99564684
HS3ST3A1	1.576295542	1.560616715
ICAM1	8.847681292	2.097771918
ICAM5	1.561284774	1.51227434

IER3	2.633780877	1.955571059
IFI6	3.108607185	4.871273207
IGDCC4	1.559738656	1.779567227
IGFBP5	1.547833385	1.535174649
IL11	2.269989217	1.520515242
IL13RA2	4.273774692	2.140299858
IL1A	20.18521317	2.950792261
IL1B	140.1460401	4.865249333
IL31RA	1.553895385	1.625692895
IL32	1.694848961	1.668040532
IL6	3.808422476	3.320160771
IL8	73.04825687	8.22438835
IRAK2	2.757320612	1.524167573
ISG15	1.795821594	2.707775344
ITGA1	3.356029695	1.76024522
ITGB3	1.887878681	1.585007324
ITPKA	2.706582965	1.722479947
IVL	7.521109573	1.674971906
KCNG1	2.749935237	1.818028879
KCNH6	2.107845376	1.568873815
KCNJ15	4.121315671	1.797314235
KRTAP2-2	1.510369774	1.504315361
KYNU	8.878995469	1.74052361
LAIR2	3.09561	1.634680072
LCE1C	2.50972	1.880106257
LCE1D	3.60245	2.540817629
LCE1F	36.9826	3.830913025
LCE2A	16.27704965	2.805025585
LCE2B	4.037539863	1.905407584
LCE2C	19.71825429	2.86915987
LCE2D	4.00443	2.498142502
LCE3D	5.4243	2.447722535
LCE3E	4.41864	4.134945136
LDB2	1.555751586	1.538958272
LINC00520	1.77401095	1.570872546
LOC100126	1.712358341	1.64154594
LOC100129	2.725469471	1.932039525
LOC100506	2.75603893	1.678534896
LOC643733	1.68335368	1.640332278
LPXN	2.485330697	1.840020777
LYPLA1	2.493393694	1.607554662
MAFF	2.333901916	1.881193611

MAN1A1	2.351808428	2.231408621
MDH2	1.68511896	1.581469551
MFSD2A	2.088668173	1.573045279
MLKL	2.43690405	1.91606503
MMP1	9.819913196	2.098904233
MMP10	4.780627881	2.896565657
MMP3	25.10428941	3.000967388
MMP7	5.968903585	2.138964838
MRGPRX3	8.021513483	1.737093416
MRPL15	1.909141649	1.582990643
MT1H	1.635418254	1.64579048
MX1	1.608865118	2.4687697
MYCT1	2.341638419	2.343922244
NAMPT	3.527513679	1.834005674
NBL1	1.601807531	1.613757345
NDP	4.339871604	1.810673185
NETO1	1.785691797	1.530742671
NFKBIA	2.491850059	1.647308691
NPC1	1.73816252	1.672157083
NPIPA2	2.042034144	1.606313465
NR4A3	3.20998647	1.901693531
NRG1	3.110838193	1.550986816
NRIP3	3.321855648	2.077314353
NRROS	1.805535439	1.550410457
NUDT4P2	1.918224756	2.759581058
OLAH	3.281744878	2.269787873
PAQR3	1.741426818	1.93241898
PDE4B	3.092380114	1.952082266
PHLDA2	2.288407327	1.846671655
PINLYP	1.500865748	1.528673118
PLEK2	4.46021271	1.765942
PMAIP1	1.986602228	1.645851606
PNP	4.376124218	1.936813187
POU2F2	8.015054363	2.081824765
PQLC2	1.577958451	1.597866722
PRKD3	3.96743059	1.639714219
PROCR	1.6694921	1.70099576
PTGS2	4.903668937	2.952189257
QPCT	5.728377736	2.061529911
RAB31	2.453596014	1.950327929
RAB38	1.810057933	1.775551109
RAC2	2.400365631	1.596380849

RALA	1.940248599	2.801273969
RBP1	1.613579909	1.787735882
RELB	1.898835082	1.700743338
RGS17	3.552103666	1.559943984
RGS20	1.995909644	1.930596673
ROBO4	3.180635774	2.086876683
RPLP0P2	2.528684194	2.013926474
RPS6KA3	1.718074347	1.593347134
SAA1	8.269770946	1.602780589
SAA2	4.561982569	1.712001048
SAA4	1.76187	1.528220385
SCG5	5.553871367	3.207024295
SCO2	1.563244299	1.728242789
SEMA7A	3.608235395	1.653725684
SERPINA1	3.440402131	1.5777332
SERPINA9	4.765599624	2.564388078
SERPINB2	2.612571024	2.625028719
SERPINB4	1.90958121	1.68896934
SLC2A13	1.681575671	1.50136651
SLC35E4	2.29304009	1.786513155
SLC43A3	2.355120247	2.061613849
SLC6A15	20.67675925	2.049803476
SMAD1	2.808289715	1.833974181
SMAGP	1.664808292	1.617078163
SNCB	2.306968257	1.898971223
SNX15	2.076730643	2.076266101
SOCS2-AS	1.696743989	1.636638667
SOD2	3.46551244	2.643823053
SOX11	1.624275527	1.7261526
SPHK1	2.461082044	1.697260032
SPSB1	3.743700646	1.521551536
SPX	2.127633249	3.181853765
SQRDL	2.481598324	1.64076594
SRGAP2B	3.078565293	1.874890149
STC1	14.02816183	1.551137468
STEAP1	2.952303488	2.314890564
STEAP1B	1.842612317	1.642166638
TAGLN3	18.44764469	3.675053804
TFPI2	5.990879174	3.197866836
TM4SF19	1.926105816	2.154892959
TMCC3	2.492771646	1.753337728
TMEM156	7.123467543	1.861541732

TMEM233	1.782354969	1.580757226
TNC	2.304381045	1.739262702
TNFAIP2	2.431775152	1.887360456
TNFAIP3	2.688242066	2.068131963
TNFRSF1B	1.927172327	1.98370085
TNFSF15	32.96514614	3.935256573
TNIP1	2.025032758	1.508915856
TRAF1	1.848701087	2.104967869
TRPA1	3.100968602	1.536555242
TTLL5	1.836318266	1.557362501
UPP1	2.436002752	1.992290735
VGFB	4.775787835	1.9600593
WNT7B	5.681504868	2.827202885
ZC3H12A	4.476142539	1.850831986
ZEB1	1.888949337	1.610487368
ZNF438	2.109559433	2.149647895