













-2.5 -2.0 -1.5 -1.0 -0.5 0.0

Log2 Fold-change in ATAC peaks (TSS ± 5 kb

DRG NRG

ACTL6A ZNF398





# of genes upregulated in RNA-Seq	2301	
# of genes down-regulated in RNA-Seq	2500	
# of differential peaks gained in ATAC-Seq	3354	
# of differential peaks lost in ATAC-Seq	1134	
# of up genes in both RNA-Seq and ATAC-Seq	267	
# of down genes in both RNA-Seq and ATAC-Seq	192	
# of genes common in RNA-Seq and ATAC-Seq	832	

G

Α



		OCI3_log2	MOLM_log2			OCI3_log2	MOLM_log2			OCI3_log2	MOLM_log2
•	Gene Name	Fold-Change	Fold-Change		Gene Name	Fold-Change	Fold-Change		Gene Name	Fold-Change	Fold-Change
,	ANXA1	0.769126671	2.050580391		DCA33	0.40309/430	0.823372017		PDE4B	0.352456131	0.758254057
	METTL7A	1.130841473	0.847306002			1 445280820	0.409412100		LILRB1	0.411427086	0.452965695
	TUBA1A	1.131696753	0.344448454			0.754650674	0.097402732		MMP25	0.686980358	0.540620268
	SAMD9L	1.15998037	0.983014002		ZSWIM8	0.346082636	0.412243771		ID3	0.824744944	1.860681076
	LRP10	0.586423591	0.412973253		JUN	0 394618945	0.952660108		PPM1L	0.576138011	0.364537186
	TODA	0.951084363	0.431478809		NRBP2	0.408903007	0.451528558		TNFSF14	0.553042418	0.658494302
		1.620476109	1 50803655		APOL2	0.420470922	0.380280201			0.810034588	1.3/84/5524
		0.643202581	0 913427186		WDR19	0.604602433	0.390017731			0.023007017	0.744704371
	TI R4	0.635016328	1.279735163	\rightarrow	CD86	1.158144941	1.06250525		II 16	0.441970733	0.732064488
	ABCA7	0.576437837	0.587335732		CX3CR1	0.514037521	2.017295783		NEK1	0.323725029	0.439033443
	IL7R	0.850877104	0.348329468		CTTNBP2NL	0.49399208	0.70557269		RAP1GAP2	0.507598612	0.617935404
	USP53	0.709446237	0.544774289		SLC44A2	0.654738008	0.701089744		IL10RA	0.390770673	1.055185292
	C3	0.662770705	1.170914352		BBS2	0.362820962	0.607857715		PCNX2	0.526711998	1.243761557
	F11R	1.018595921	0.485488884		STABP1	0.448022756	0.08/281840		ZNF697	0.329821733	0.441468191
	MT2A	0.810602932	0.408295396		TOM11 2	0 452707302	0.352057030		ZBED6	0.435129938	0.719370258
	KLHL24	0.637013546	0.484316086		AKAP9	0.357819474	0.446521618		DNASE2	2.559981297	1.063533372
	SLC43AZ	0.59555641	0.50981815		ZYG11B	0.335492213	0.436903929		HERC6	0.49650297	1.603392029
	RAB7B	0.370740315	0.921079032		PDLIM2	0.433078413	0.513401917		PLADC2	0.012010090	1.442011060
	HELZ2	0.573110271	0.367427521		RAB11FIP1	0.342800412	0.527339301		SSRP2	0.363597643	0.029095210
	ARID5B	0.903714225	1.159021156		CD244	0.807034237	0.514357051		TBC1D2	0.522095257	0.360127881
	KIAA0513	0.937634336	1.639889271		SLFN5	1.516432134	1.492366991		CLEC12A	1.358228349	0.745613028
	BNIP3L	0.387214989	0.764398148		GPR137	0.421547566	0.578150348		AGPAT4	0.766165722	1.255886792
	TRAF3IP3	0.581943578	0.584583799		HIPK2	0.330923464	0.727141182		TRIM52	0.378165	0.779334083
	SLA	0.381566838	0.794559452		YPEL3	0.521502865	1.335678725		ABHD4	0.559804822	0.436279846
	APOL6	0.494915234	0.484327997			0.370902688	0.486639511		GPR68	0.414751909	0.990790546
	IDS	0.678759958	0.874018668		ADGRB1	0.924347954	0.311030214		GIPR	1.685600231	0.776034697
	RAB37	0.480812763	0.718738274		SAT1	0.412683467	0.479306462		PORCN	0.861686867	0.527197971
	CDC42ED4	0.641452642	1.10111112/		SYT11	0.416628995	0.632954886		AHNAK	0.41599897	0.886870709
	MBNI 2	0.511044170	0.475267129		KIAA1109	0.421602981	0.654416986		ATP8A1	0.521598808	1.129621732
	CD37	0.571849756	0 527531943		ADD3	0.336428991	0.357477818		SH2D3C	1.202004020	0.330206034
	PIM1	0.960371466	0.393803711		SRD5A1	0.408189245	0.655737528			0.406543436	0.869112137
	PIAS3	0.435995338	0.470304992		NCOA7	0.425373905	0.391533614		TXNDC16	0.350555955	0.471645262
	ITPR2	1.00949731	0.794325161		RNF213	0.657762616	0.75886797		LILRB2	1.337436627	1.752720784
	CPNE3	0.38318417	0.344449832		RCBTB2	0.442344218	0.510846955		NBEAL1	0.40449611	0.927040292
	NLRP1	0.454880994	1.838673337		MXD3	0.385632497	0.4915/22/5		SCIMP	0.451203837	1.407058276
	CCNG2	0.446809137	0.878540435		CATS	0.359203064	1 656471269		CIITA	0.614624659	1.546655712
	KIFC2	0.614202696	0.353068603			0.896261707	0 680895133		JAML	1.478277329	0.876956842
		0.410809367	0.463385655		SLC26A11	0.819788165	4.794263792	-	ITGAX	0.533639109	1.090570387
	SYNE1	0.836854313	2 803787405		TRANK1	0.726684399	1.310873798		PDE1B	0.463404859	0.575854074
	KIAA1551	0.424826036	0.440958201		PGAP1	0.529706087	1.315518698		CCDC146	0.303132401	1 423660585
	TSPOAP1	0.443018333	0.685331799		ATP7A	0.516784941	0.573020726		SP110	0.418252735	1 024912162
	RUBCN	0.396341924	0.404241031		CLSTN3	0.495342391	0.427767302		ANKRD36C	0.419040935	0.596539217
	CFP	0.703229456	1.097445997		GPR18	0.358532637	0.456048706		SPATC1	1.312086081	1.796085974
	PDE4DIP	0.632014406	0.651619635		JUP	1.462260776	0.852542223		LMTK3	0.989395453	0.952308957
	FAM111A	0.341067852	0.333478141		ARRDC3	0.555188435	1.06/4//118		SPACA6	0.386970809	1.334299817
	SLC26A2	0.53570467	0.61464032			0.300043034	0.460311262		MAP3K14	0.352575841	0.486211771
	CXCL10	1.155943052	1.487722805		NCF2	0.881315902	0.409311202		ABHD8	0.421757524	0.749295326
	UBE2L6	0.449416641	0.669729105		PGM2L1	0.688685588	0.642482906		TSHZ3	0.578717177	0.943820211
	ECCR2B	1 716012022	2 /1082/710		TLR6	0.66772655	0.727490497		PRX	0.423918245	0.743940845
	PBXIP1	0.353484532	0.479179443		TMEM8B	0.723906022	0.860020147		505	1.390282554	1.737905939
	NBR1	0.335671912	0.326441308		ABCA5	0.367513971	1.850670448		ITPR3	0.501757512	0.445557147
	CBLB	0.584379329	0.726848329		CLCN5	0.408060293	0.634924917		MTMR11	0.355997634	0.466360915
	GCC2	0.464075595	0.466215135		PAQR8	0.453174445	0.857923376		TMEM255B	0.477851949	0.723588463
	ACSF2	0.761642782	0.63179147		CYTIP	0.839348561	0.719222686		EML6	0.610815094	2.049094041
	ZNF467	0.724357328	1.149804555		TLN2	0.821386102	0.438802642		RASGRF1	1.407975218	0.839551044
	SYNPO	0.588428558	1.773983207			1.096647095	0.95481196		PILRA	0.327575984	0.758696684
	SLC12A6	0.408187986	0.520058354		C1PI	0.412304694	0.550006445				
	CLCN3	0.35760623	0.329313288		ARMC9	0 42848012	0 754766431				
	SVZA	0.3/0038509	0.403405555		CCDC186	0.339177733	0.515035873				
	GLTP	0.446658001	0.640877051		HCN3	0.574924524	0.632203026				
	IFI6	0.769288621	1.657136986		KIF3A	0.372179667	0.89034981				
	IFFO2	1.187968924	0.711287958		ST3GAL6	0.519346075	0.921253279				
	MYOF	0.461753939	0.807093904		FAM161B	0.666461066	0.736229026				
1					RBMS2	0.631748676	0.649310526	1			

D			
-	GeneName	OCI3 log2 FC	MOLM log2 FC
	CDKN2C	-1.649733229	-0.957504284
	PHF10	-1.121464064	-0.570739022
	IGF2BP2	-1.155806612	-0.679343221
	TMEM255A	-2.570378971	-2.989631346
\rightarrow	LAMP5	-0.845916214	-0.768378707
	IRF8	-0 749492619	-0 339881248
	SATB1	-0 680088531	-0 92339395
	CXorf21	-0.508252328	-0.545910616
	SATR2	-0.670825687	-0.545510010
	SPGN	-0.553021520	-0.000770515
\rightarrow		-1.056/00288	-0.712088005
	CDED2	1 220555922	1 200057446
		-1.230333623	-1.009037410
		-0.955065024	-0.013/0243/
	TESC	-0.750430966	-0.497603164
_		-0.659177611	-0.010000002
	PBX3	-0.818842026	-1.768859435
	SDC2	-0.48/149636	-1.06/202025
	KLHL23	-0.816/10615	-0.78709842
	MYC	-0.351530754	-0.33/6/4/31
\rightarrow	REEP3	-0.581024563	-1.441970132
	TERT	-0.660329416	-0.324917509
	ZNF516	-0.417680197	-0.351410952
	DLX1	-0.550081491	-0.730310543
	TFB2M	-0.409087985	-0.414146039
	SLC25A19	-0.412433634	-0.377046677
	NANOS1	-1.193674438	-0.992017796
	FAM120AOS	-0.45521356	-0.363490026
	HSPA4L	-0.475301018	-0.441551735
	CENPV	-0.833750069	-0.586459719
\rightarrow	CDK6	-0.434179181	-0.457528672
\rightarrow	MEIS1	-0.494833554	-2.592036446
	RRP7A	-0.340158808	-0.436506155
	DCUN1D5	-0.362309609	-0.333435683
	DNAJA4	-0.431822443	-0.440829487
	STARD8	-0.615129477	-0.362435997
	MRTO4	-0.355331992	-0.427786232
	BATF3	-0.851320649	-0.771901131
	MRPS34	-0.435247545	-0.362801654
	CSPG4	-0.588121242	-0.645501735
	ST3GAL4	-0.423082118	-0.354410615
	NDUFAF3	-0.370546953	-0.637817861
	RPL36AL	-0.330113755	-0.384295181
	ZEB2	-0.373498827	-0.492659654
	BAG2	-0.58136371	-0.420149031
	WDR4	-0.383034064	-0.465727625
	SFMBT1	-0.637262679	-0.345642443
	CGREF1	-0.428232511	-0.588302825
	HS3ST1	-0.520323269	-0.941612428
	SFXN4	-0.365622965	-0.621281327
	PLD6	-0.387615714	-0.437421361

GeneName	OCI3 log2 FC	MOLM log2 FC
PSMG1	-0.323615833	-0.424594781
AGMAT	-0.689972746	-0.333246665
TEAD4	-0.363515217	-0.333273264
NOP16	-0.333407476	-0.340139849
ZBTB33	-0.323060432	-0.606023325
CMTM7	-0.418332454	-0.53578187
PIWIL4	-0.458460044	-0.450316448
LHX6	-0.602949475	-0.506947065
GAREM2	-0.471599636	-0.418863173
TIFAB	-1.283306613	-0.671791898
IL15RA	-0.485748542	-0.446254007
CSPG5	-0.580692098	-1.920972963
EGR1	-0.356252851	-1.346300897
AVEN	-0.473762414	-0.33768645
LRFN1	-0.389552782	-0.369222456
CHST10	-0.325282393	-0.360801176
SAP30	-0.436849801	-0.44226863
QPRT	-0.569628604	-0.504319731
RAB33A	-0.624997086	-0.422864464
MYO6	-0.33596582	-2.777965996
BEND3	-0.409590254	-0.411459062
AP1S3	-0.622053183	-0.397109917
CHRM4	-0.801624196	-4.094642204
PPP1R27	-0.606765019	-0.872440061
RHOBTB3	-0.351258823	-0.414934525
C16orf91	-0.323351116	-0.349866938
IGFBP7	-0.39575928	-0.369522524
RNF157	-0.44924468	-0.352607549
FAM89A	-0.447227041	-0.519579501
FAM127C	-0.364217964	-0.379933983
KCNQ4	-0.828723286	-0.708966915
RGS9BP	-0.670167973	-1.04644981
TBC1D30	-0.759982571	-1.106274122
SOCS2	-0.896893553	-2.410567303
HACD1	-0.519382061	-0.463960157
MRPS28	-0.331196482	-0.522708566
SHOX2	-0.496676938	-1.594606875
PPP1R3G	-0.559960037	-0.629169284
PROK2	-1.527030596	-0.542269701
CABLES1	-0.459216227	-0.5528942
TOMM5	-0.366123264	-0.533577587
GAL	-0.454234218	-0.473886456
ITPRIPL1	-0.337822683	-0.488668089
GET4	-0.756694731	-0.454602228
EMID1	-0.394457229	-0.629347219
TXNDC5	-0.530907719	-0.53845581
DLX2	-0.470491862	-0.985056205
GADD45GIP1	-0.339853646	-0.3401186
FAM174B	-0.578203186	-0.4703284





В





















250 500 0 100 nM, OTX015, 72 hrs

Figure S8

Α



















40

20







47.10

51.44

49.97

47.00

50.73

50.44













50

100

300

nM, GNE-049, 72 hrs

1000

3.63

100

5.70

300

nM, GNE-049, 72 hrs

4.94

1000

Figure S11











80

60

40

20

% non-viable cells

41.33

40.70

23.98











MOLM13









Ε