

Figure S1

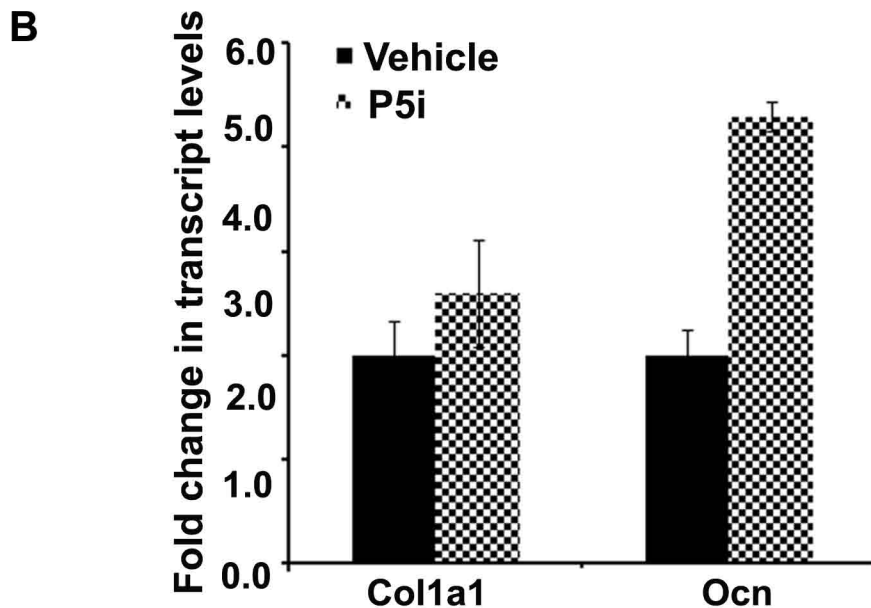
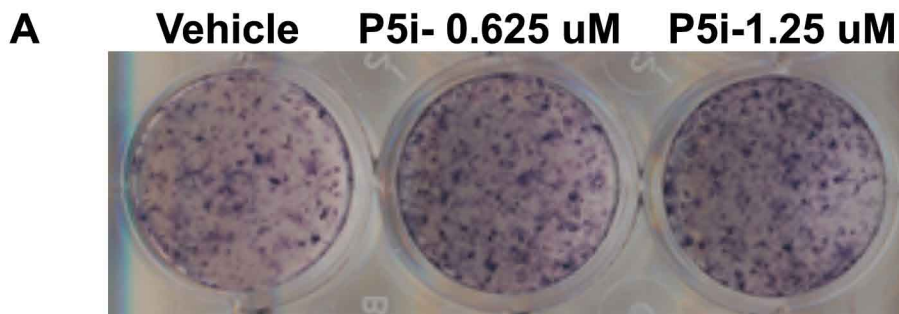


Figure S2

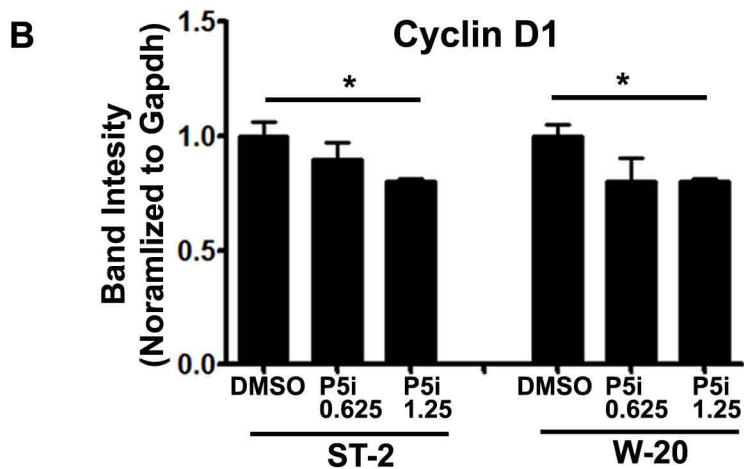
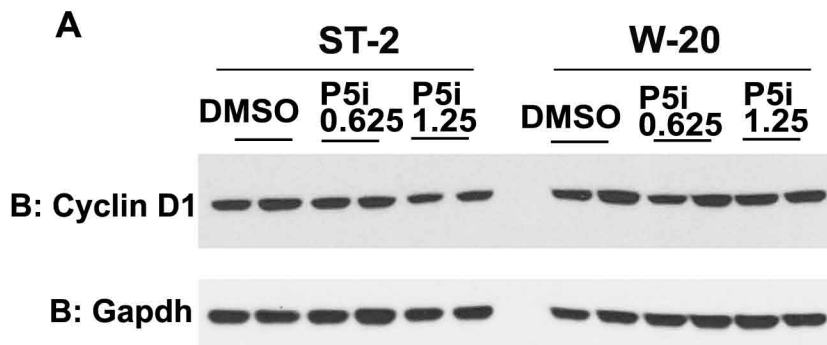


Figure S3

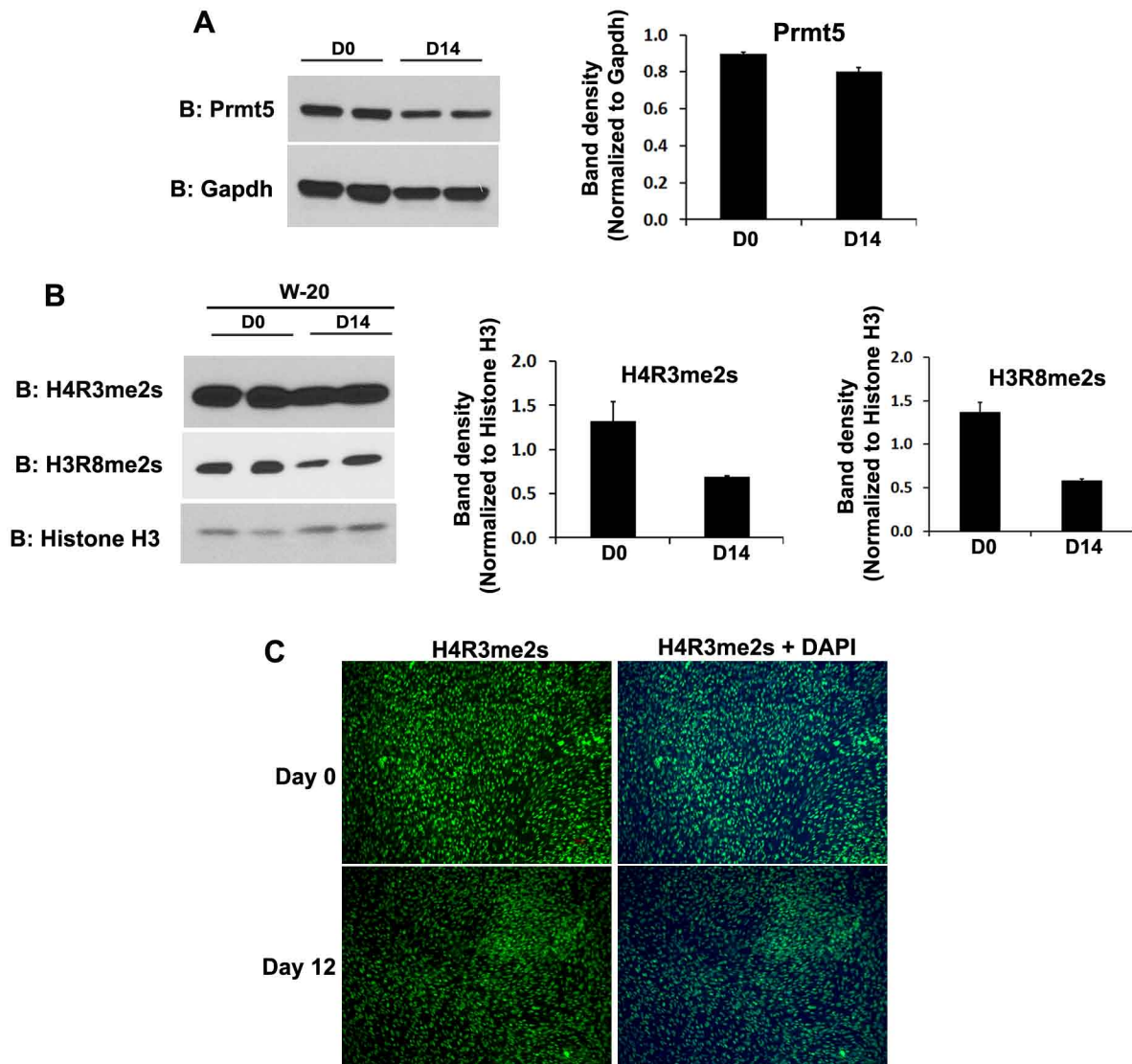


Figure S4

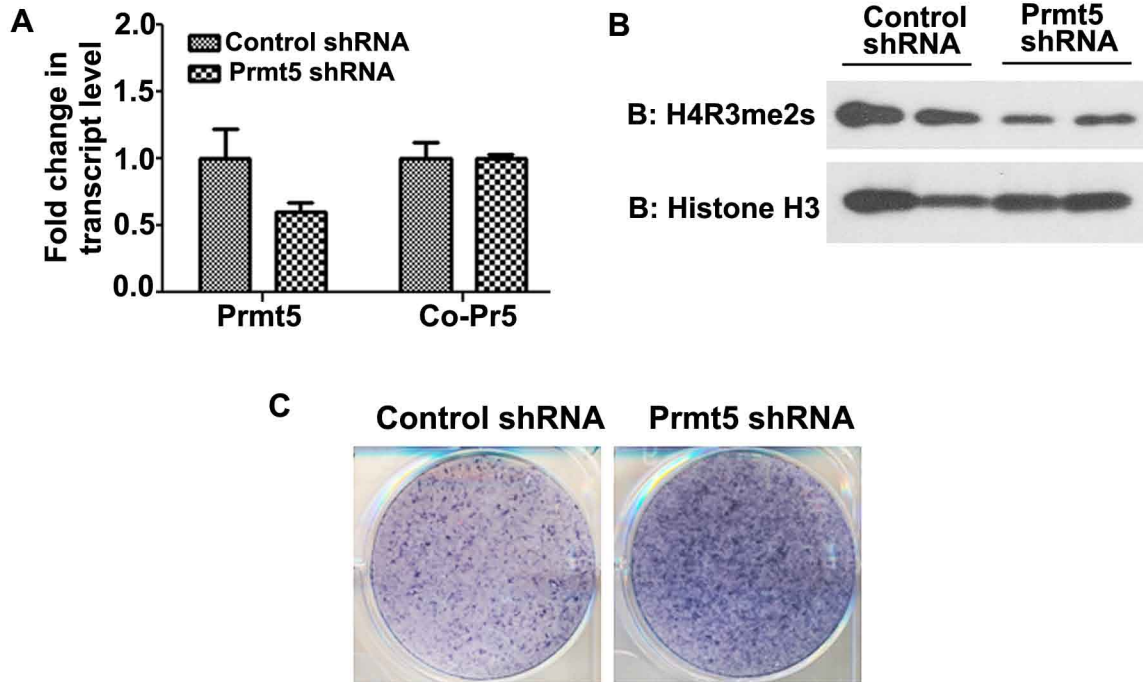
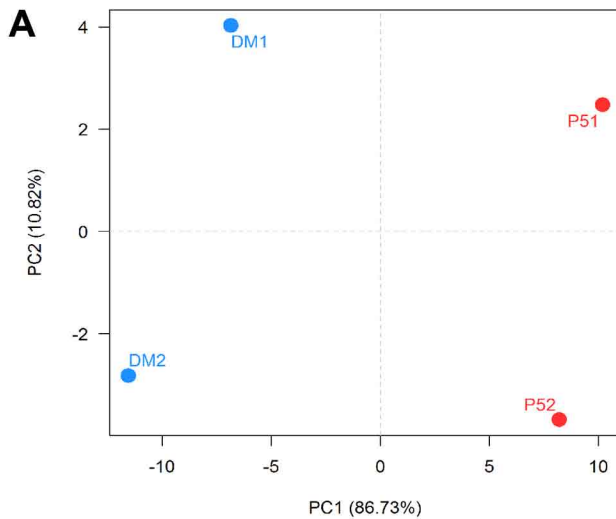
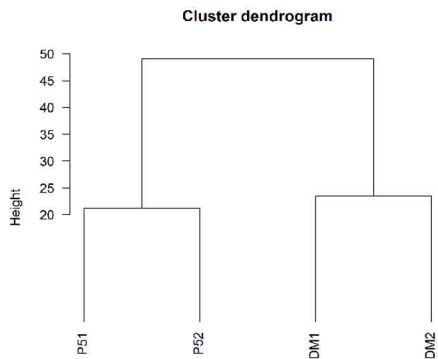


Figure S5



B



Method: Euclidean distance - Ward criterion
hclust ("ward.D")

Figure S6

PECAM1 interactions_Homo sapiens_R-HSA-210990

Molecules associated with elastic fibres_Homo sapiens_R-HSA-2129379

Elastic fibre formation_Homo sapiens_R-HSA-1566948

Extracellular matrix organization_Homo sapiens_R-HSA-1474244

Abacavir metabolism_Homo sapiens_R-HSA-2161541

Triglyceride Biosynthesis_Homo sapiens_R-HSA-75109

Muscle contraction_Homo sapiens_R-HSA-397014

Synthesis of 5-eicosatetraenoic acids_Homo sapiens_R-HSA-2142688

Synthesis of Lipoxins (LX)_Homo sapiens_R-HSA-2142700

Developmental Biology_Homo sapiens_R-HSA-1266738

Figure S7

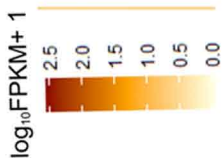
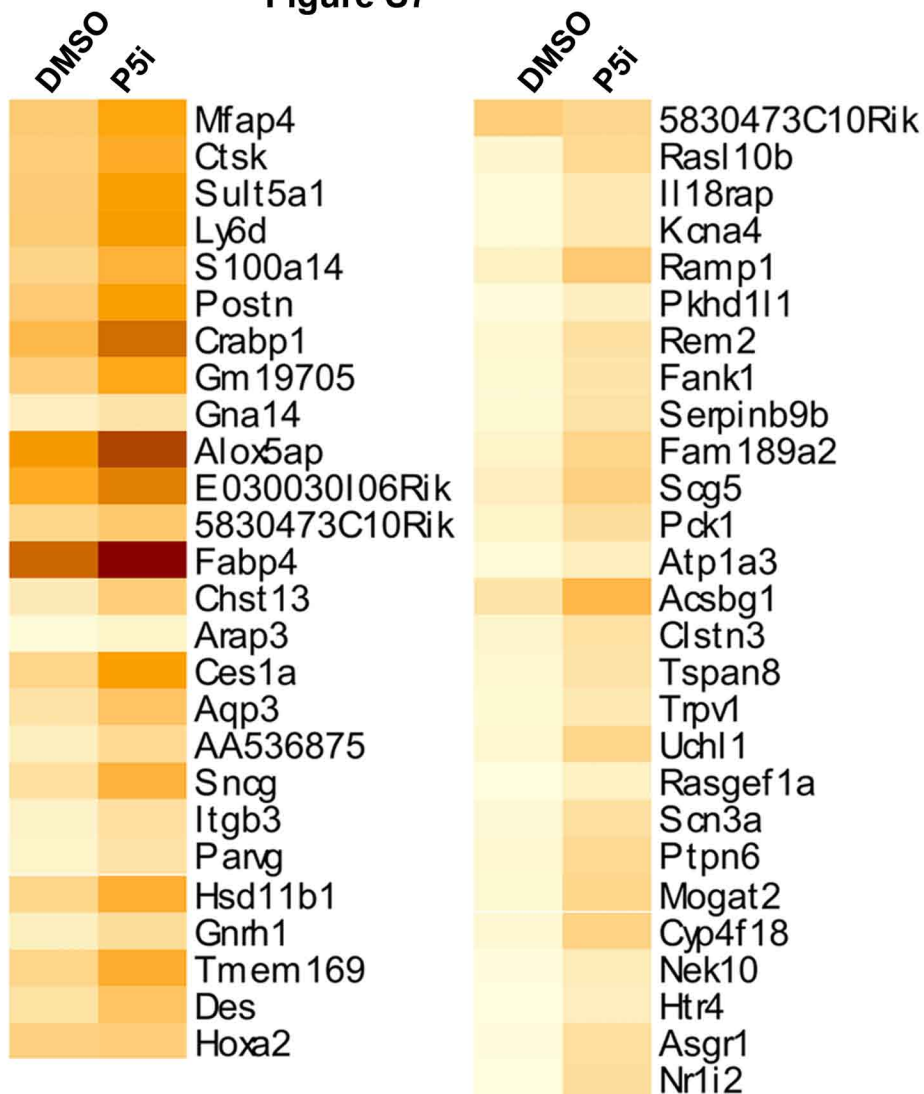


Figure S8

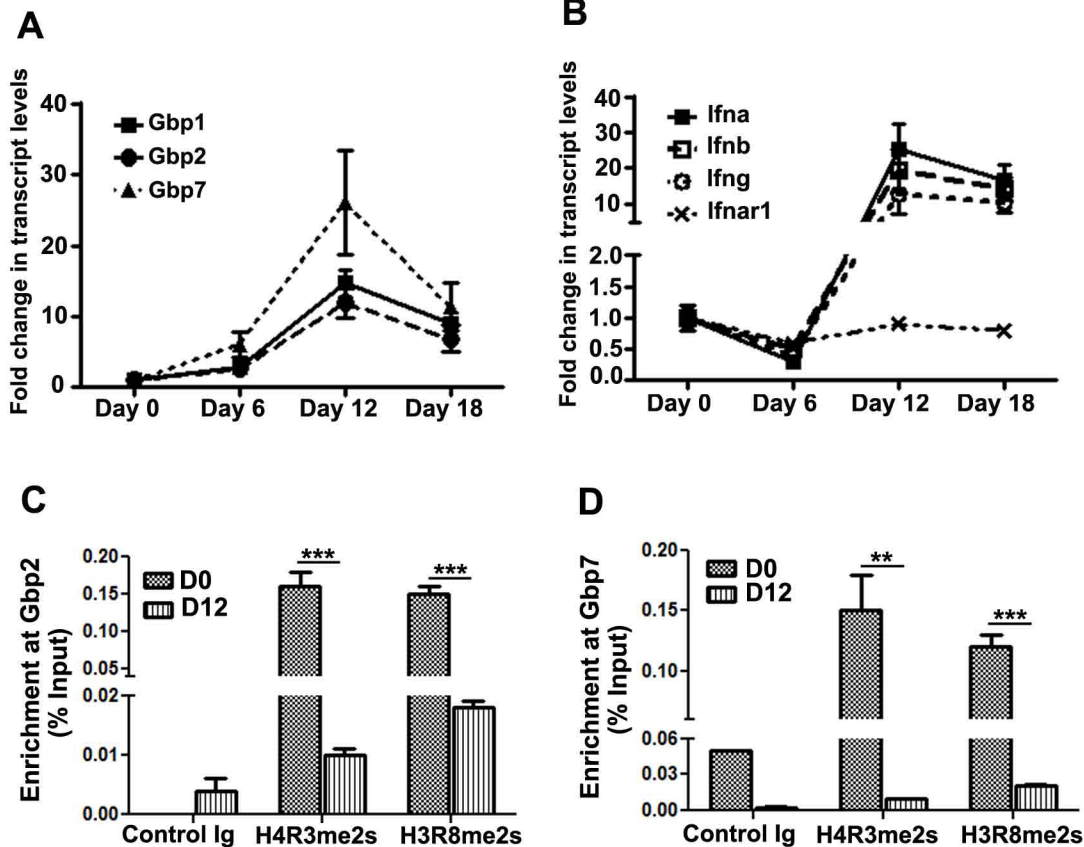


Figure S9

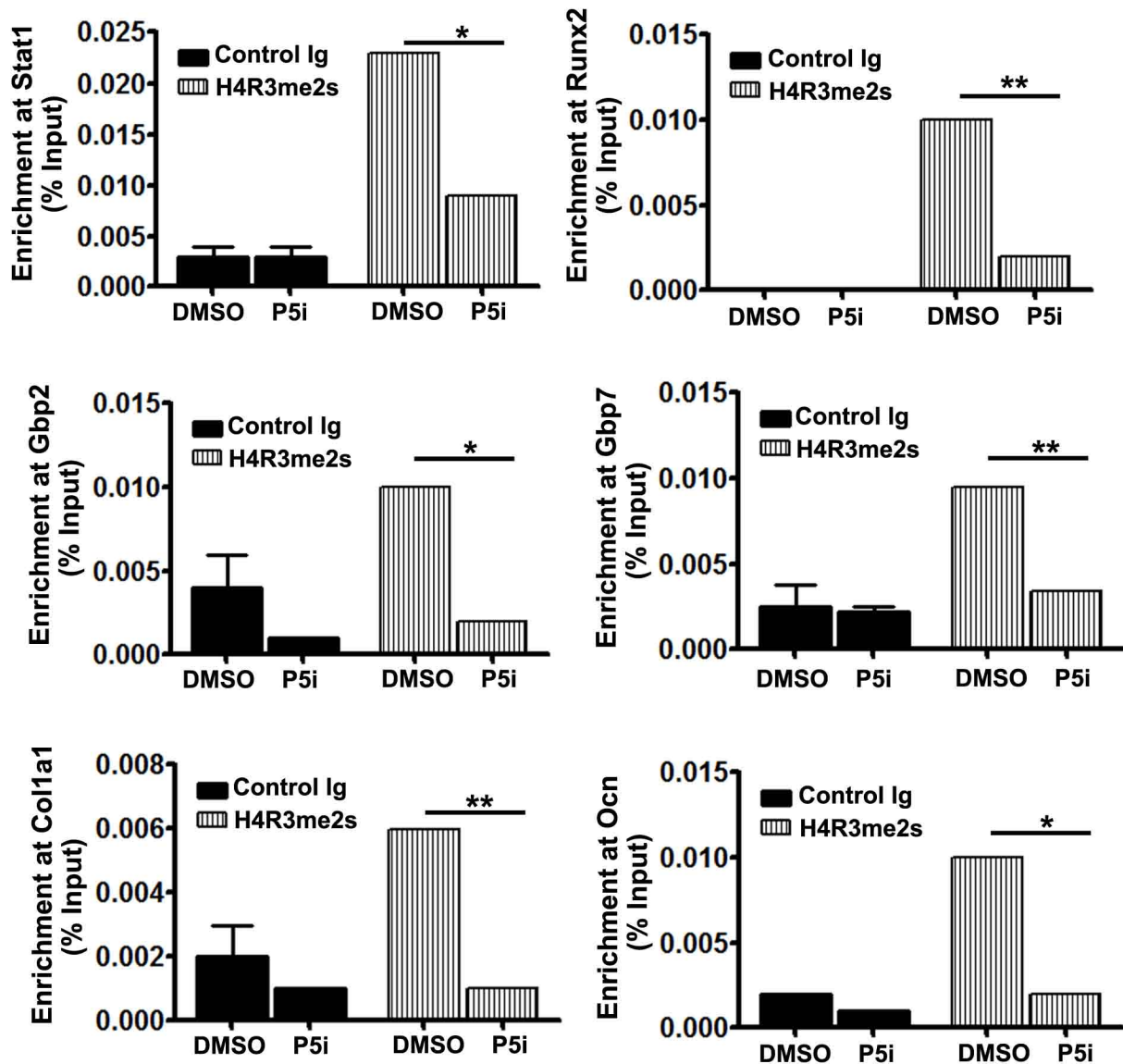


Figure S10

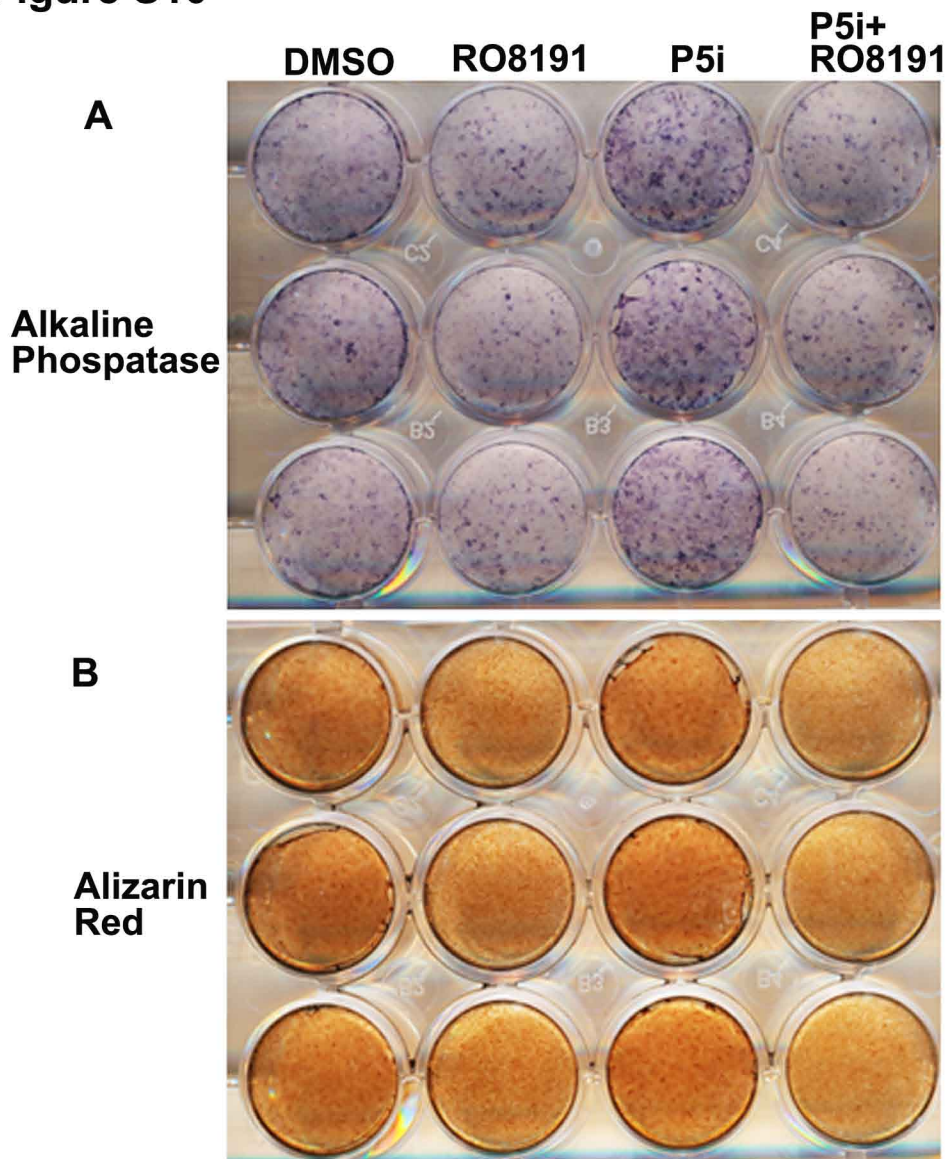
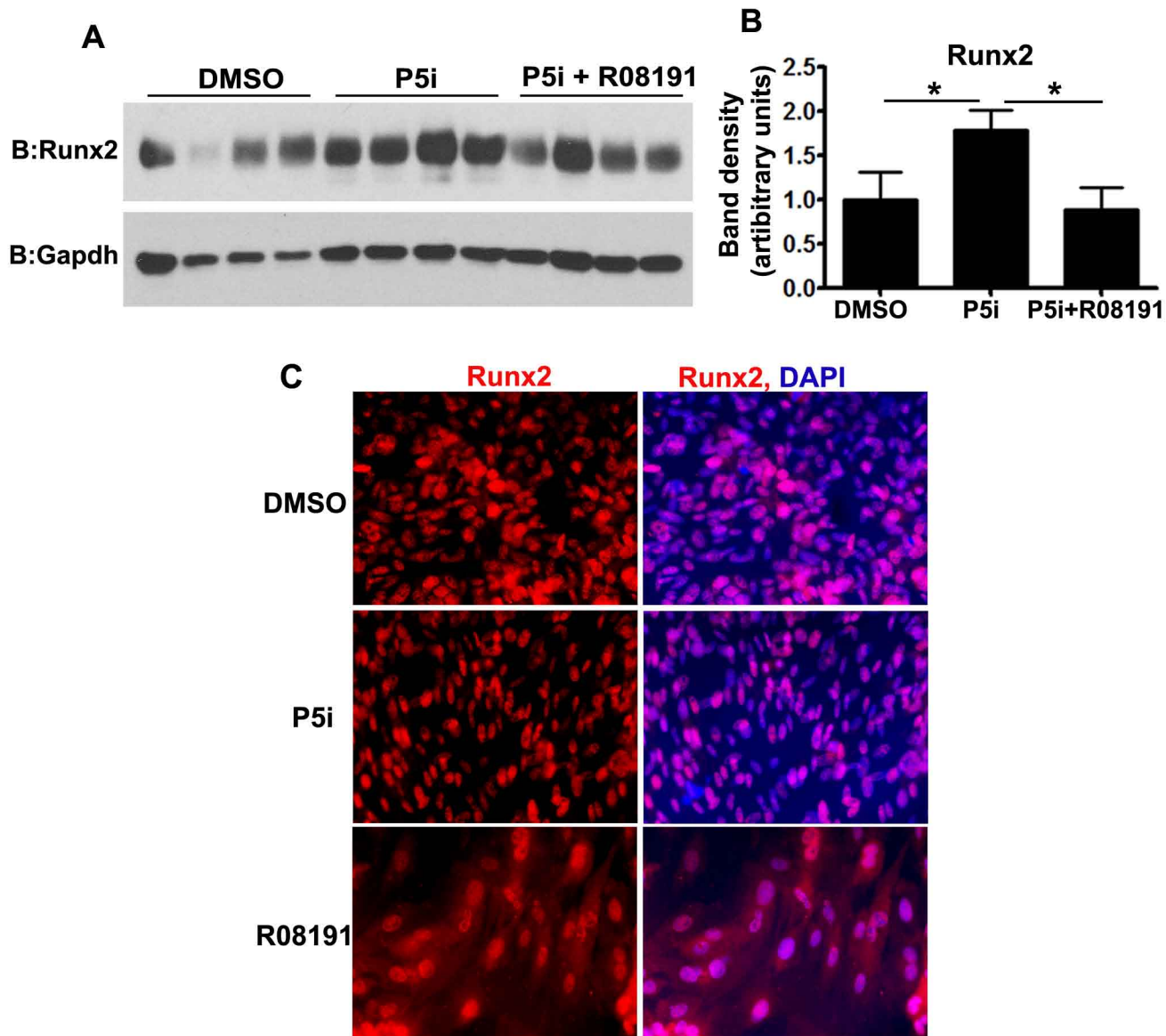


Figure S11



Supplementary Table-1

gene_id	locus	log2(fold_change)	q_value
XLOC_004934	chr11:48865185-48872556	-1.50041	0.00354515
XLOC_010675	chr15:84324719-84342978	1.50534	0.00354515
XLOC_020415	chr3:95499285-95509412	1.5063	0.00354515
XLOC_023763	chr4:156199423-156200818	-1.50703	0.00354515
XLOC_002744	chr10:22113049-22149270	1.515	0.00354515
XLOC_009407	chr14:67745228-67749569	1.52804	0.0214093
XLOC_023084	chr4:41092723-41108859	1.54695	0.00354515
XLOC_031787	chr8:61921910-62038234	-1.54852	0.00354515
XLOC_015369	chr18:37972622-37998969	1.5509	0.0291337
XLOC_020639	chr3:142594846-142638008	-1.55192	0.00354515
XLOC_028225	chr6:41073529-41074798	1.55306	0.0306172
XLOC_030129	chr7:24978156-25005895	1.5561	0.0161319
XLOC_027710	chr6:90308350-90325185	1.55764	0.00652959
XLOC_031584	chr8:9140053-9153598	1.55811	0.00354515
XLOC_000434	chr1:136683377-136690806	1.55824	0.0266625
XLOC_004139	chr11:61485443-61494230	1.56832	0.0412234
XLOC_004636	chr11:104607999-104670471	1.57126	0.00354515
XLOC_001427	chr1:193207699-193264046	1.57131	0.00354515
XLOC_026886	chr6:52158403-52166355	1.57189	0.00354515
XLOC_020352	chr3:90526848-90528835	1.5789	0.00354515
XLOC_020700	chr3:10204342-10208576	1.57983	0.00354515
XLOC_016813	chr19:12002228-12002647	-1.58143	0.00354515
XLOC_013388	chr17:35342332-35384674	-1.58423	0.00354515
XLOC_020196	chr3:54361106-54391041	1.58439	0.00354515
XLOC_004087	chr11:58199555-58222783	-1.5981	0.00354515
XLOC_011700	chr15:85663116-85664907	-1.59815	0.00354515
XLOC_009523	chr14:123168502-123254035	1.6101	0.0278683
XLOC_028306	chr6:65150940-65151254	1.61217	0.0115819
XLOC_035181	chr9:41610229-41611677	-1.61857	0.0178458
XLOC_013993	chr17:35994503-36038174	-1.61896	0.00354515
XLOC_000217	chr1:75360343-75367970	1.62319	0.00354515
XLOC_034549	chr9:48537708-48539257	-1.62567	0.00354515
XLOC_005508	chr11:100690712-100704455	-1.62648	0.00354515
XLOC_014676	chr17:44593390-44595400	-1.64398	0.0318953
XLOC_006439	chr12:26469214-26479837	-1.64583	0.00354515
XLOC_000187	chr1:72284372-72303091	1.65824	0.00354515
XLOC_032756	chr8:123141652-123158414	1.67887	0.00354515
XLOC_006580	chr12:78224728-78684769	-1.68645	0.00354515
XLOC_011002	chr15:74762055-74763567	1.68963	0.00354515
XLOC_013932	chr17:33996011-34000421	-1.69319	0.00354515
XLOC_025177	chr5:149264703-149288142	1.69629	0.00354515
XLOC_004936	chr11:48903580-49135387	-1.6964	0.00354515
XLOC_007797	chr13:32450366-32453157	1.70673	0.00354515
XLOC_006223	chr11:98056525-98057909	1.71393	0.00354515

XLOC_012464	chr16:35832877-35871539	-1.7196	0.00354515
XLOC_024941	chr5:120812631-120824773	-1.72221	0.00354515
XLOC_018062	chr2:173153072-173159253	1.73901	0.00354515
XLOC_027840	chr6:124430755-124464784	1.74274	0.00354515
XLOC_029531	chr7:104244456-104262236	-1.74872	0.00354515
XLOC_032983	chr8:44934522-44935141	1.75899	0.00354515
XLOC_004441	chr11:88066398-88068183	1.76027	0.00354515
XLOC_025627	chr5:114896833-114912245	-1.77493	0.0178458
XLOC_018412	chr2:65457117-65567541	1.78853	0.00354515
XLOC_002562	chr10:115817283-115849893	1.80115	0.0291337
XLOC_013390	chr17:35424876-35428361	-1.81219	0.00354515
XLOC_020438	chr3:96497777-96498179	-1.82455	0.00354515
XLOC_014612	chr17:36215586-36215649	-1.8504	0.00354515
XLOC_024741	chr5:90518948-90598209	1.85875	0.0090981
XLOC_025666	chr5:120876141-120907525	-1.90894	0.00354515
XLOC_010487	chr15:44457552-44597135	1.91615	0.00354515
XLOC_003760	chr10:115269945-115270317	-1.92324	0.00354515
XLOC_005338	chr11:88063166-88066135	1.93513	0.00354515
XLOC_033862	chr9:54764807-54773109	1.94478	0.00354515
XLOC_018745	chr2:113776312-113829091	1.95872	0.0139716
XLOC_007801	chr13:33027413-33040558	1.97117	0.0196514
XLOC_021287	chr3:151730843-151749959	-1.99198	0.00354515
XLOC_019136	chr2:173206611-173218922	-2.01213	0.00354515
XLOC_013385	chr17:35263093-35267497	-2.02333	0.00354515
XLOC_012249	chr16:97535329-97561195	-2.03498	0.00354515
XLOC_017607	chr2:107290588-107298504	2.07354	0.00354515
XLOC_027144	chr6:118066384-118091546	2.09008	0.0306172
XLOC_016151	chr19:34640888-34651845	-2.09203	0.00354515
XLOC_000093	chr1:40515361-40549529	2.1094	0.00652959
XLOC_004253	chr11:72301628-72313813	-2.1107	0.00354515
XLOC_012031	chr16:23601529-23614297	-2.11852	0.00354515
XLOC_016532	chr19:23972672-24031019	2.12874	0.00354515
XLOC_026518	chr5:125408781-125409095	-2.13392	0.0090981
XLOC_029761	chr7:133776890-133881532	2.13633	0.0139716
XLOC_009307	chr14:54476099-54480434	2.13908	0.0231011
XLOC_009643	chr14:34370273-34374670	2.16334	0.00354515
XLOC_032575	chr8:93020214-93048382	2.17724	0.00354515
XLOC_034592	chr9:54604996-54661885	2.18205	0.00354515
XLOC_024899	chr5:114896833-114912245	-2.19171	0.00354515
XLOC_022173	chr3:144624501-144626202	-2.19459	0.00354515
XLOC_019361	chr2:36219180-36220412	2.20454	0.0365657
XLOC_036958	chrY:90739145-90739258	2.21354	0.0278683
XLOC_015132	chr18:60439244-60443858	-2.26006	0.00354515
XLOC_025663	chr5:120753097-120777659	-2.26103	0.0090981
XLOC_000286	chr1:91179821-91225196	2.38091	0.00354515
XLOC_026109	chr5:38563201-38563830	-2.3827	0.0487371
XLOC_004393	chr11:83410071-83421038	2.39092	0.00354515

XLOC_009129	chr14:14820814-15006693	2.39419	0.0214093
XLOC_027845	chr6:124720717-124738709	2.39821	0.00354515
XLOC_020637	chr3:142530337-142550083	-2.4064	0.00354515
XLOC_016083	chr19:16435666-16611353	2.46176	0.00354515
XLOC_004267	chr11:73232767-73260507	2.46378	0.00354515
XLOC_024663	chr5:66676120-66687234	2.52507	0.0291337
XLOC_034180	chr9:108953744-108984875	2.54276	0.00652959
XLOC_019360	chr2:36217144-36218504	2.54534	0.0178458
XLOC_020638	chr3:142560051-142573212	-2.78903	0.00354515
XLOC_032499	chr8:71988481-72009626	2.80618	0.00354515
XLOC_015157	chr18:62324203-62467802	2.81133	0.00354515
XLOC_026605	chr5:147408853-147409579	2.8149	0.00354515
XLOC_030571	chr7:99219083-99238611	2.85136	0.00652959
XLOC_004223	chr11:70054368-70057894	2.98046	0.0306172
XLOC_025662	chr5:120730295-120749848	-3.35716	0.00354515
XLOC_012500	chr16:38248327-38294873	3.47898	0.00354515

Supplementary table 2

Gene	ChIP-PCR	Sequence
<i>Gbp7</i>	Forward	5'-CGA CTT GTT TTC ATC CGC CG-3'
	Reverse	5'-ACC GGA TAT TGC CTG CAC TT-3'
<i>Gbp2</i>	Forward	5'-AGT GCC TGT GAG AGA GGA CA-3'
	Reverse	5'-TCT GTG CTG GTT TCA GCC TC-3'
qRT-PCR		
<i>Oas3</i>	Forward	5'-CCT CCC TTG GCA ATC CTT A-3'
	Reverse	5'-CTG AGT TCA CAG CAG CCG TA-3'
<i>Adar</i>	Forward	5'-CTT GCC CTG TTT CTT GCT GT-3'
	Reverse	5'-ATG GCT TTG CTG CTG AGT TC-3'
<i>Gbp2</i>	Forward	5'-CCA CTC TGG TCA GGT GAT GA-3'
	Reverse	5'-GAT CTT TGC TTT GGC AGT CC-3'
<i>Nat1</i>	Forward	5'-ATT CTT CGT TGT CAA GCC GCC AAA GTG GAG-3'
	Reverse	5'-AGT TGT TTG CTG CGG AGT TGT CAT CTC GTC-3'
<i>Gbp7</i>	Forward	5'-TTG CTT TGG AGT TCA CCC TC-3'
	Reverse	5'-TCC AGG TAG CAG AGA ATC CG-3'
<i>Gbp1</i>	Forward	5'-AGA TGC CCT TGG TGT GAG AC-3'
	Reverse	5'-CTC TAC CGC ACA GGC AAA TC-3'
<i>Prmt5</i>	Forward	5'-CTG AAT TGC GTC CCC GAA ATA-3'
	Reverse	5'-AGG TTC CTG AAT GAA CTC CCT-3'
<i>Prmt7</i>	Forward	5'-GCC AGG TCA TCC TAT GCC G-3'
	Reverse	5'-GCC AAT GTC AAG AAC CAA GGC-3'
<i>Co-Pr5</i>	Forward	5'-GCT CTG AGC TCC ACT GGC T-3'
	Reverse	5'-GAG CGG AGT TCG CAG GAG-3'
<i>Col1a1</i>	Forward	CCT GGA ATG AAG GGA CAC CG
	Reverse	CCA TCG TTA CCG CGA GCA CC
<i>Runx2</i>	Forward	GAG AGG TAC CAG ATG GGA CT
	Reverse	CAC TTG GGG AGG ATT TGT GA
<i>Osx</i>	Forward	AGG CAC AAA GAA GCC ATA C
	Reverse	AAT GAG TGA GGG AAG GGT
<i>Ocn</i>	Forward	CGC TCT GTC TCT CTG ACC TC
	Reverse	GAC TGA GGC TCC AAG GTA GC
