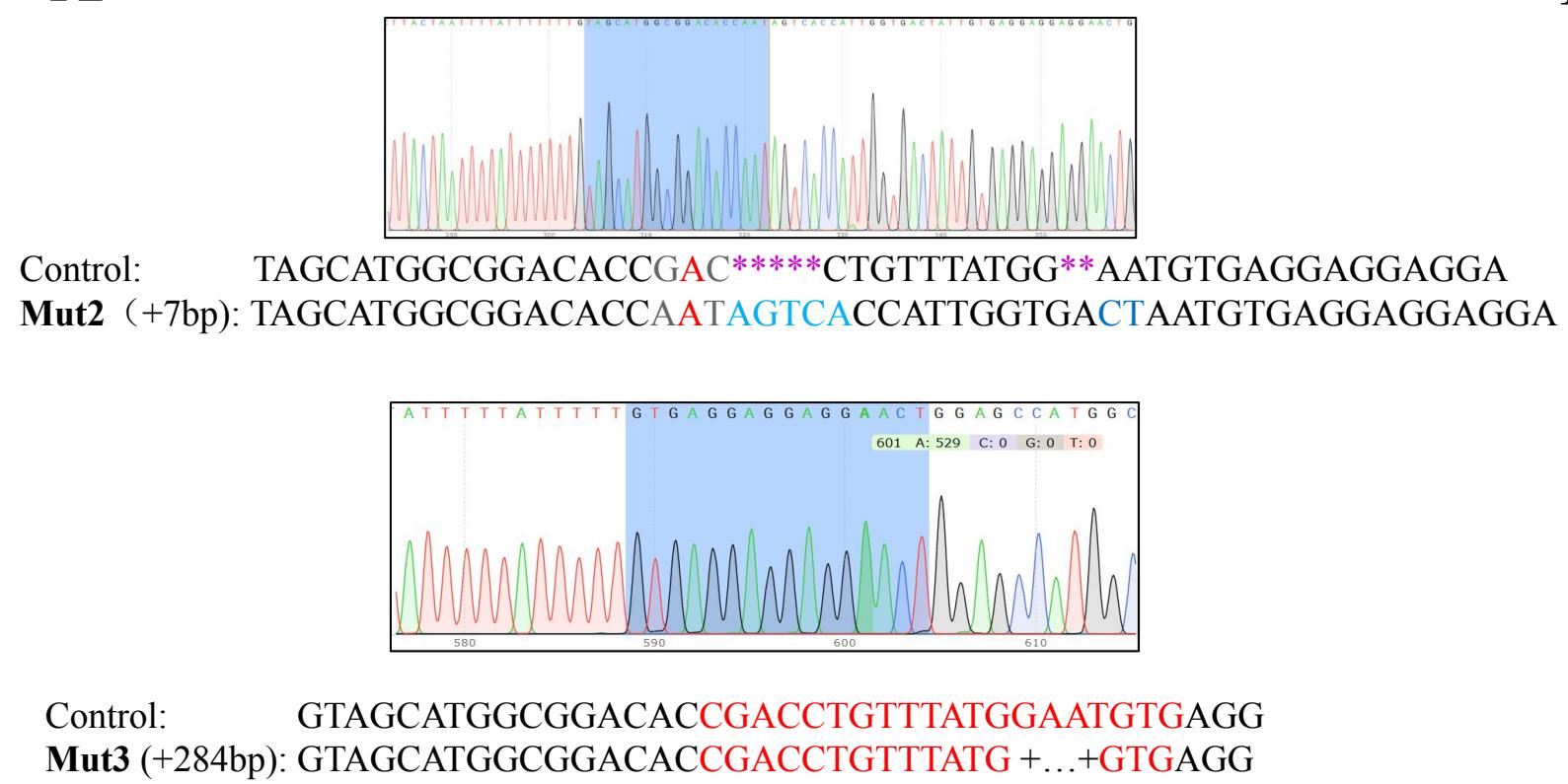
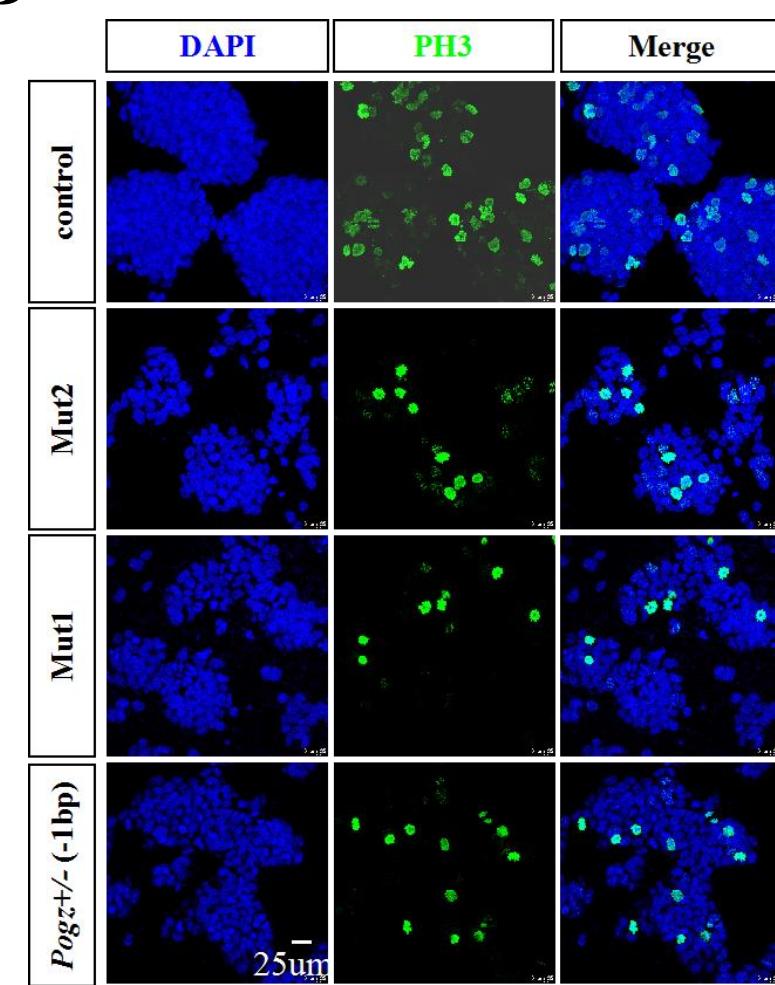


Supplementary Figure 1

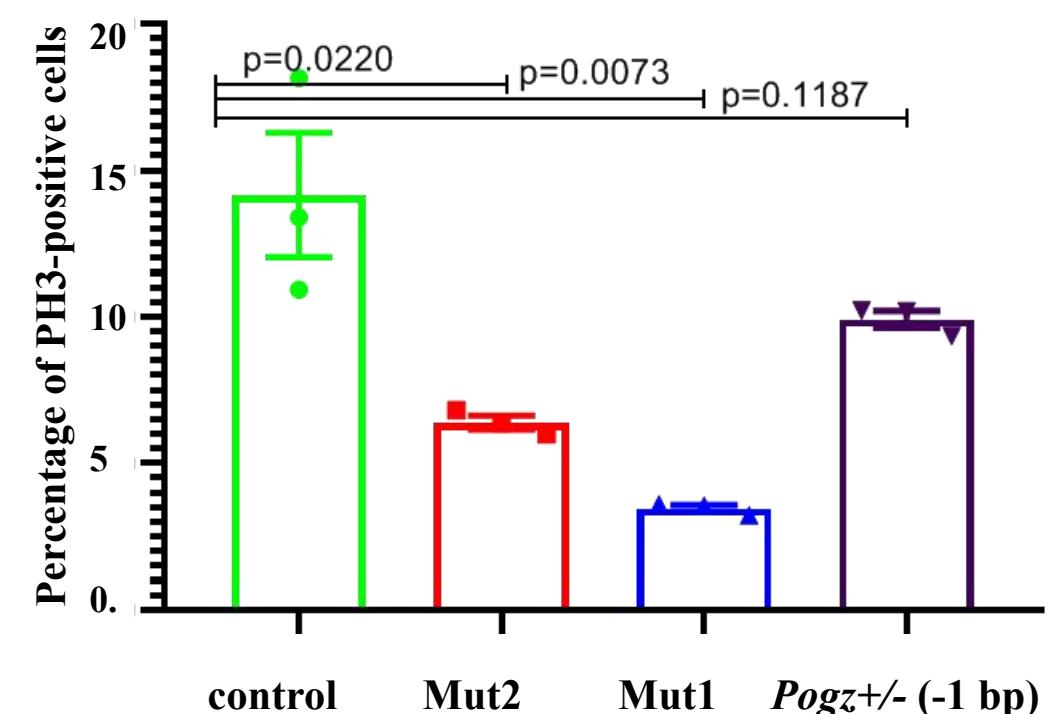
A



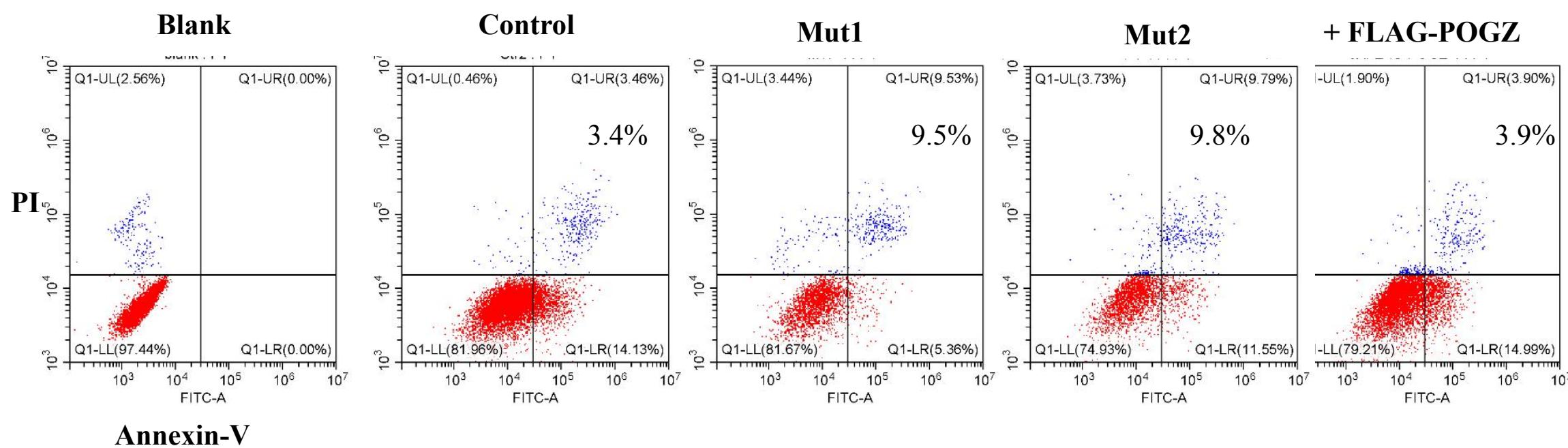
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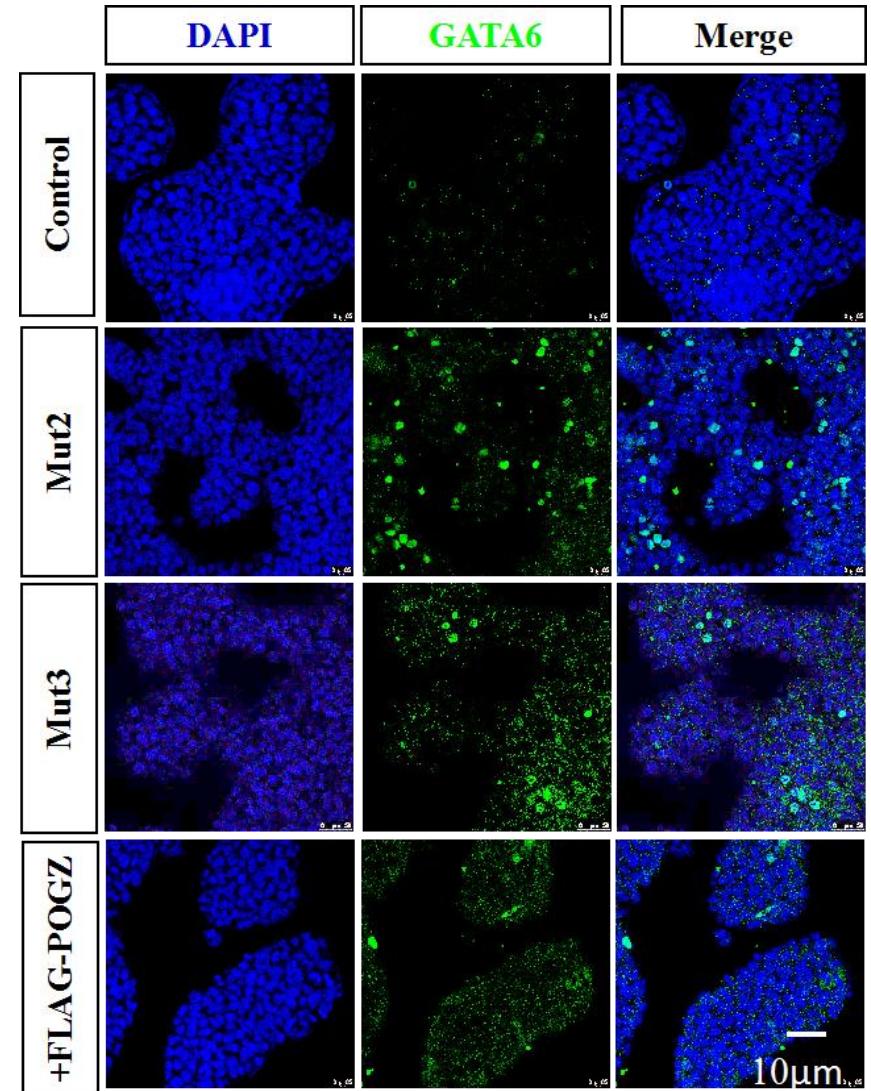
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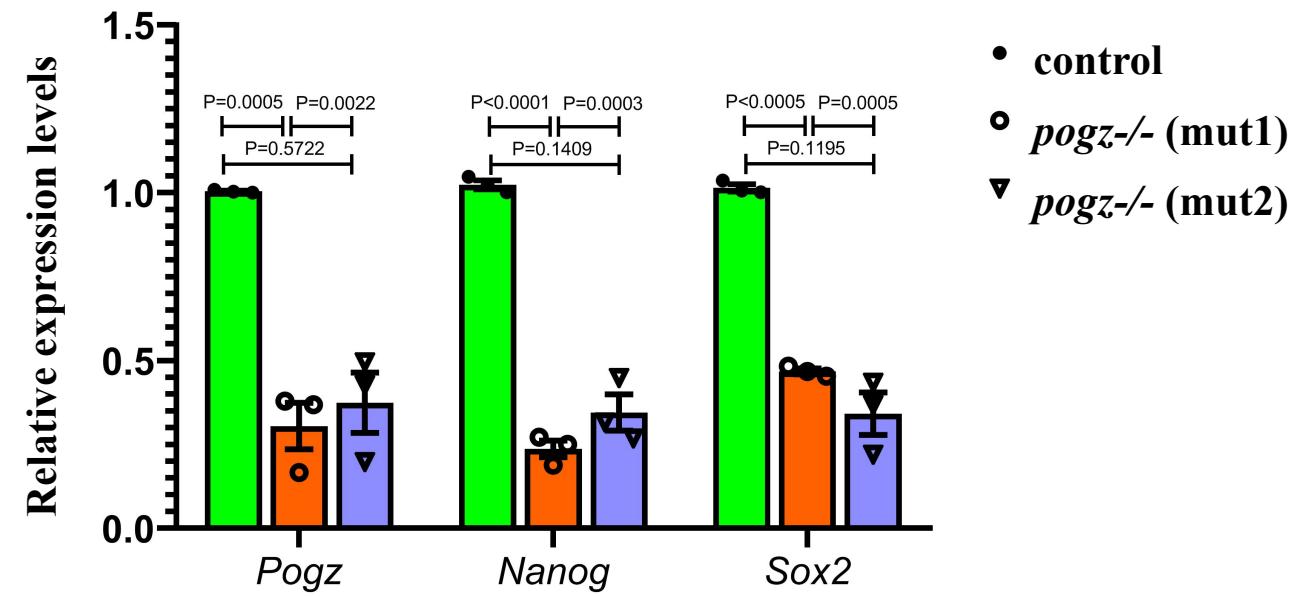
D



F

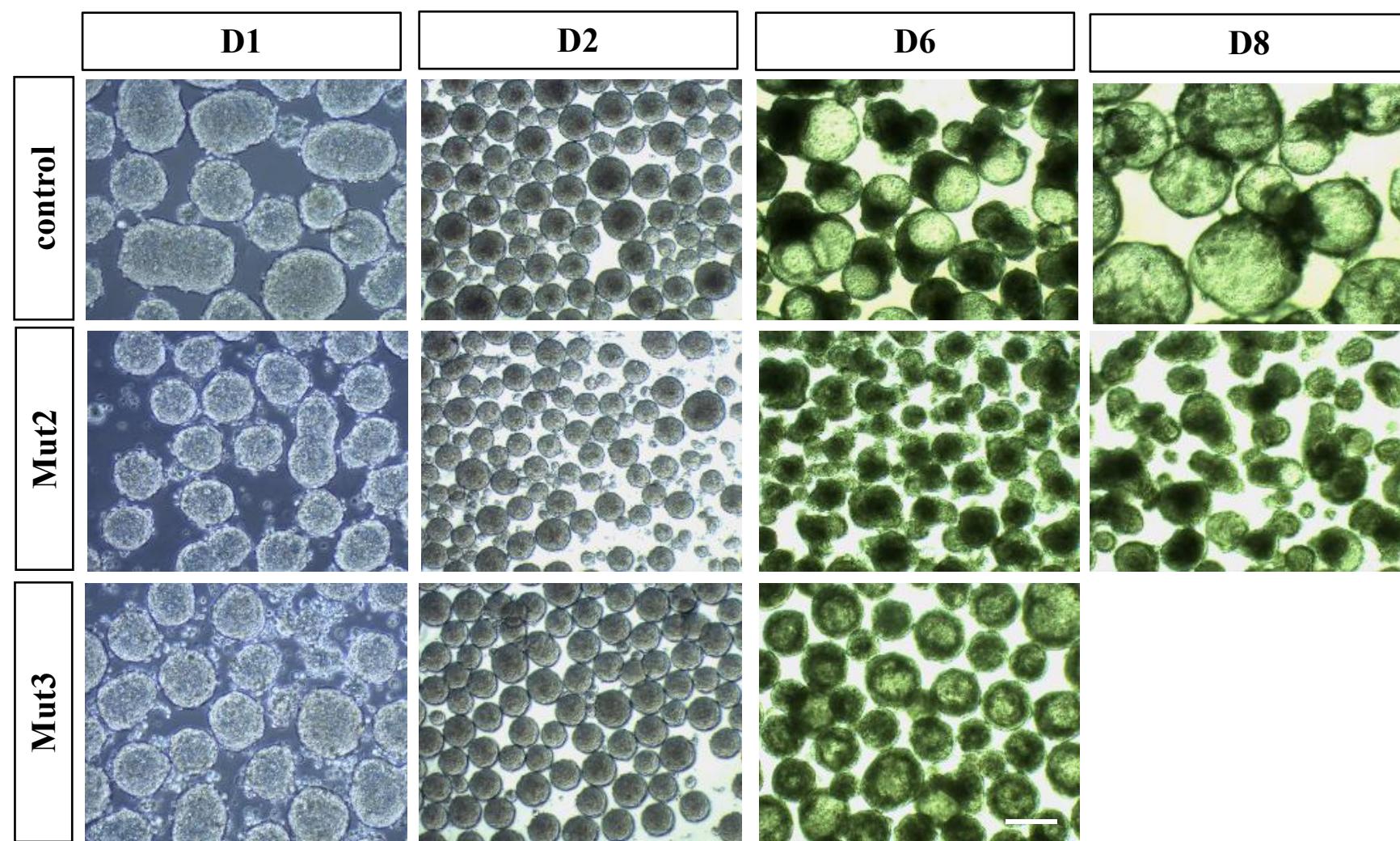


E

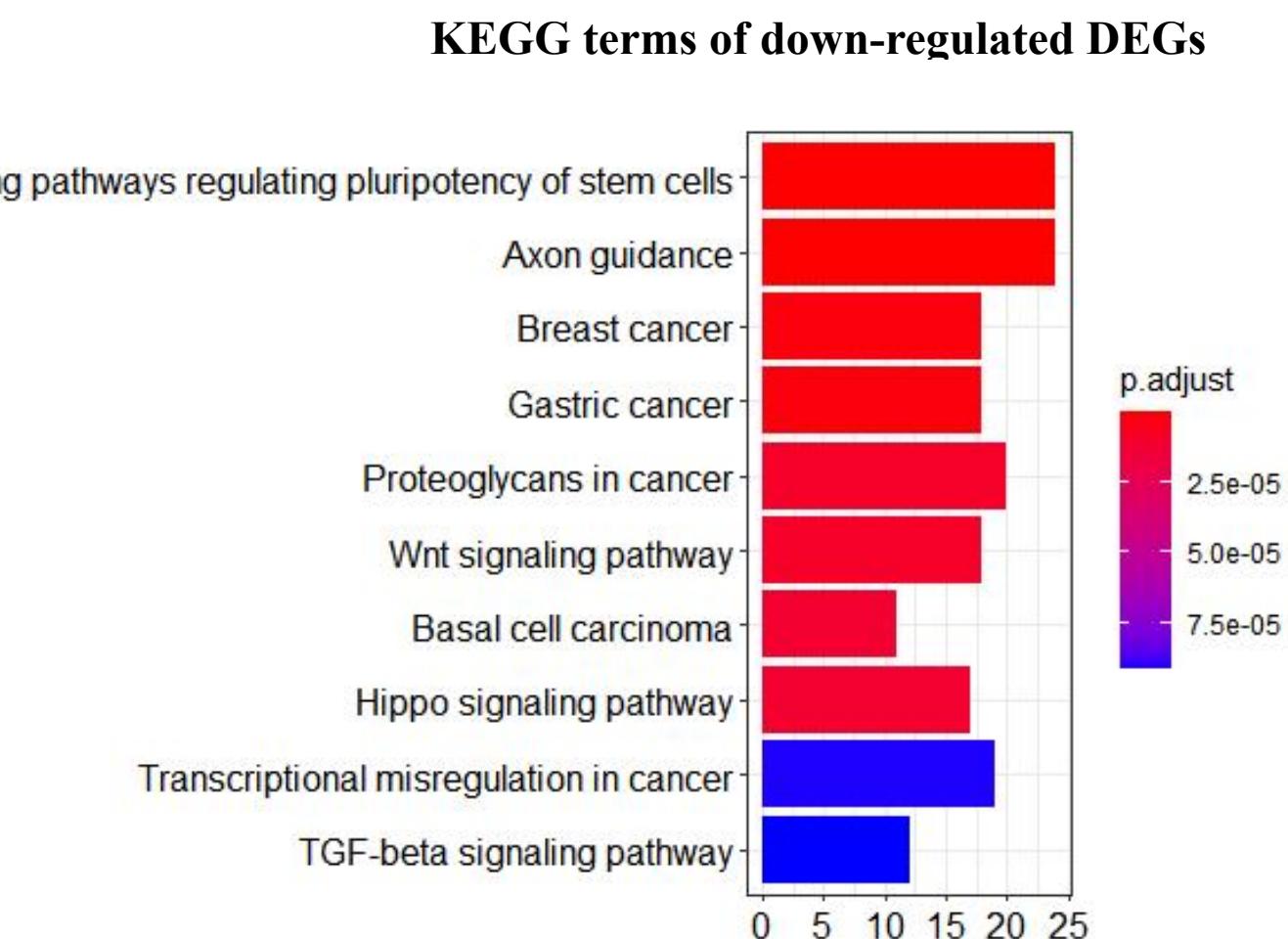


Supplementary Figure 2

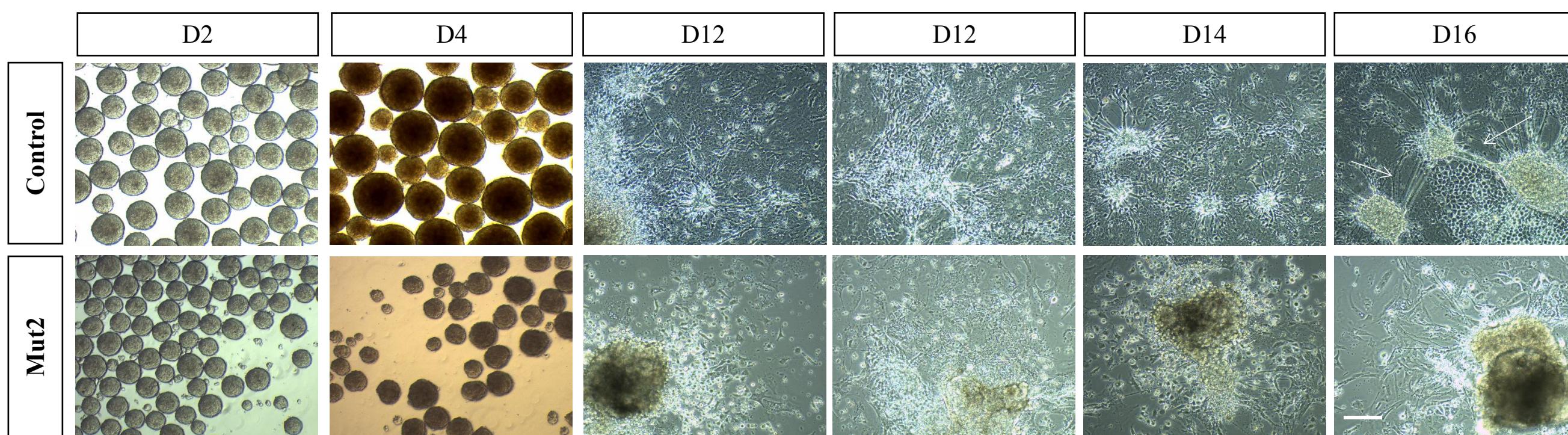
A



B

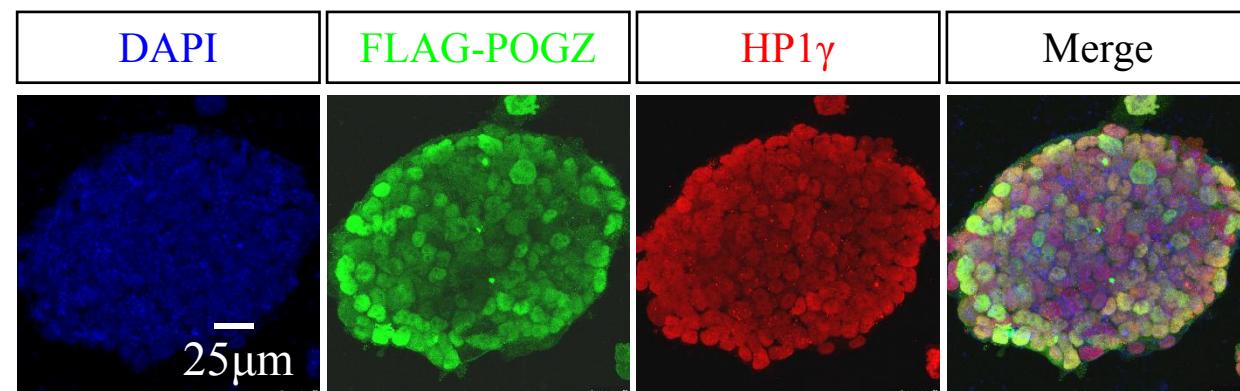


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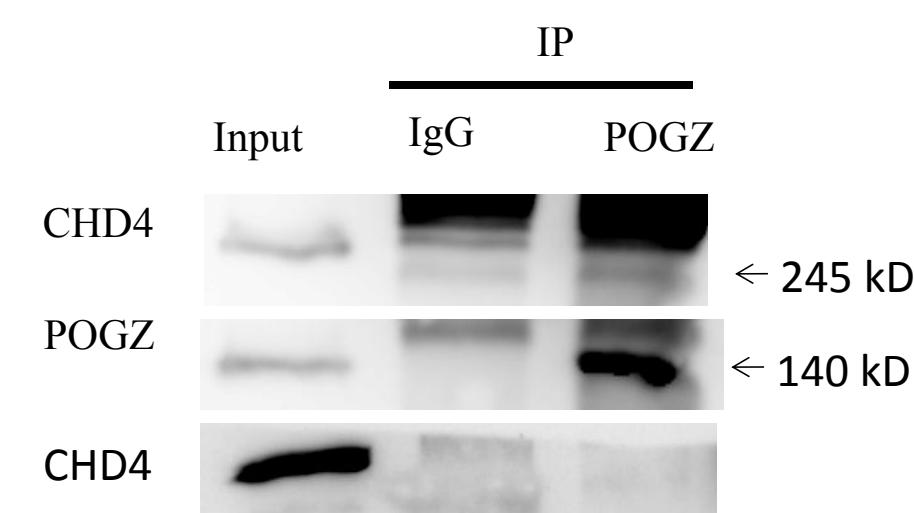


Supplementary Figure 3

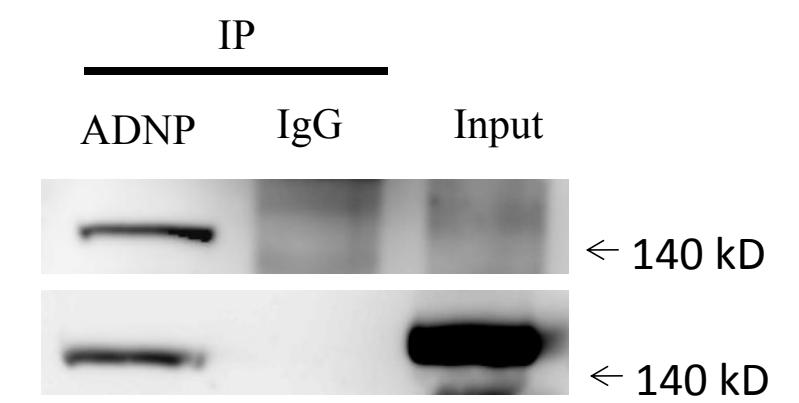
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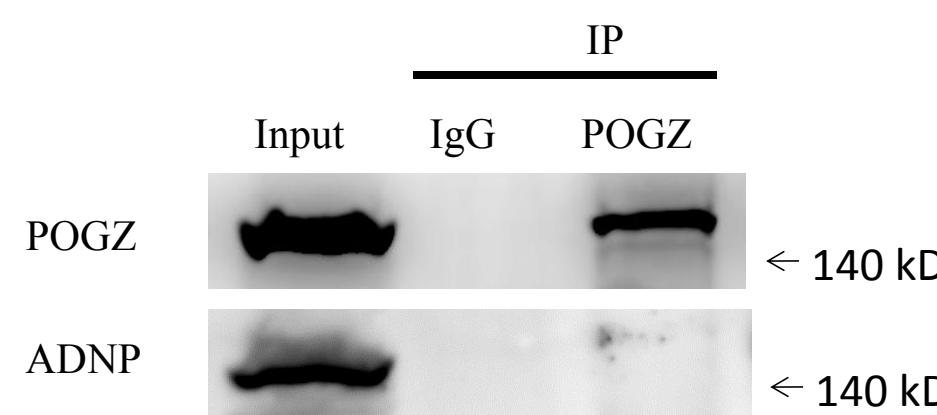
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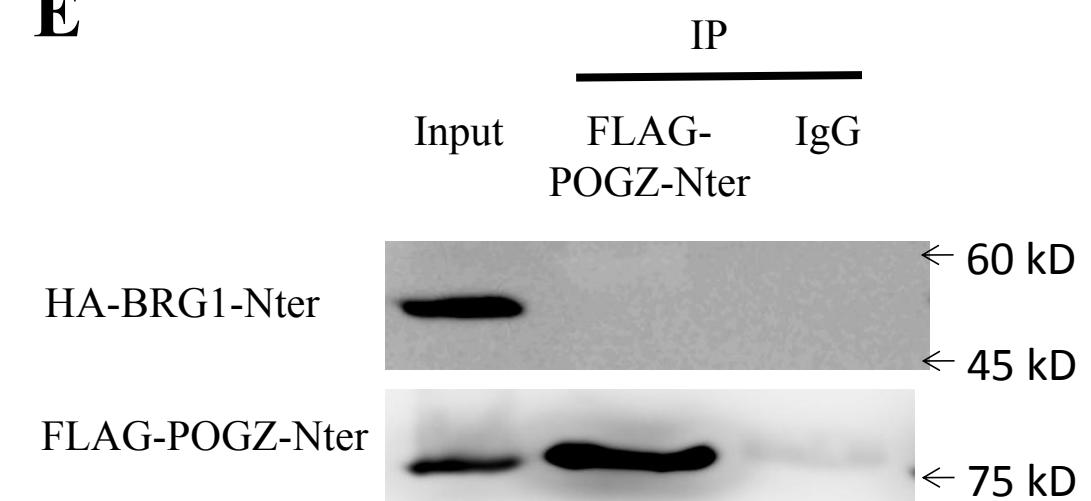
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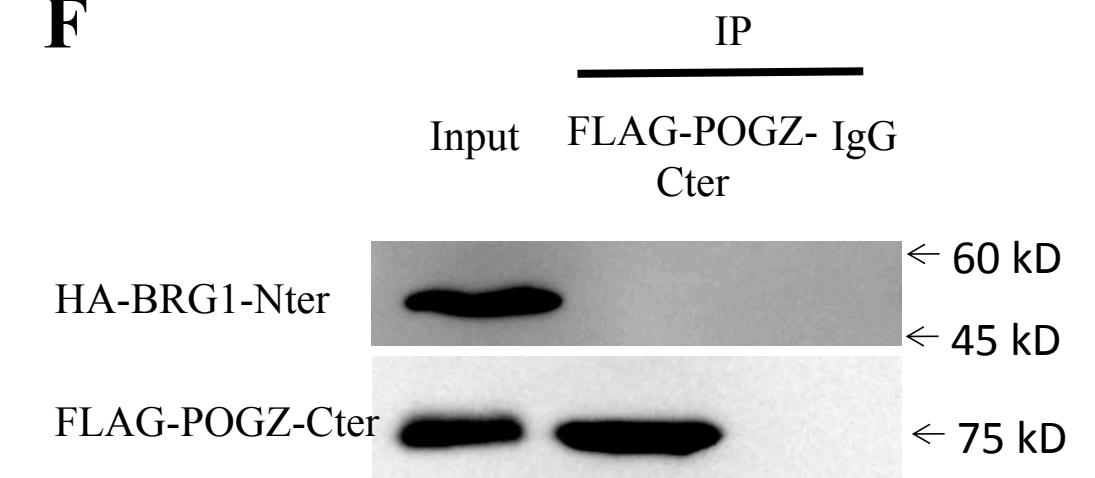
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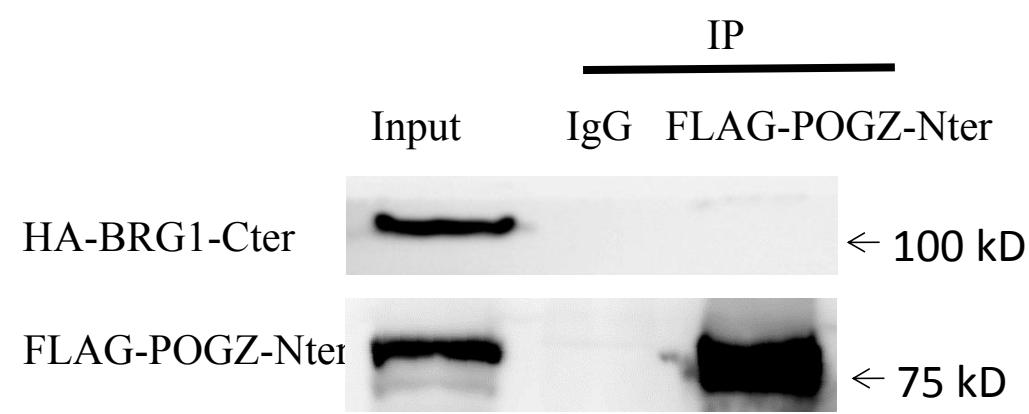
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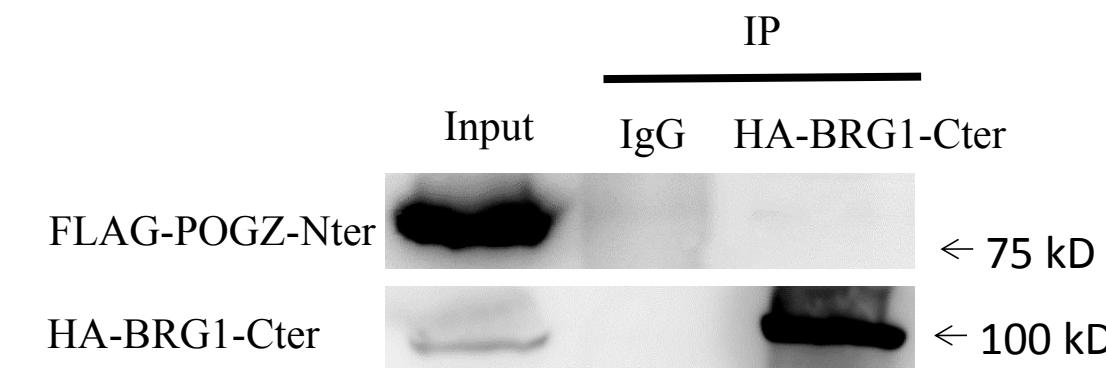
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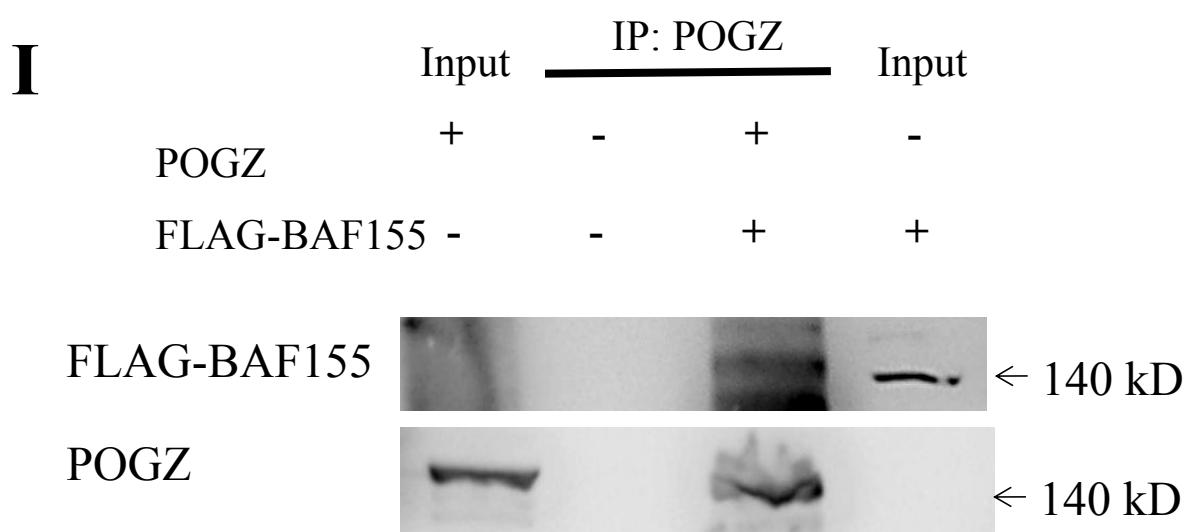
G



H

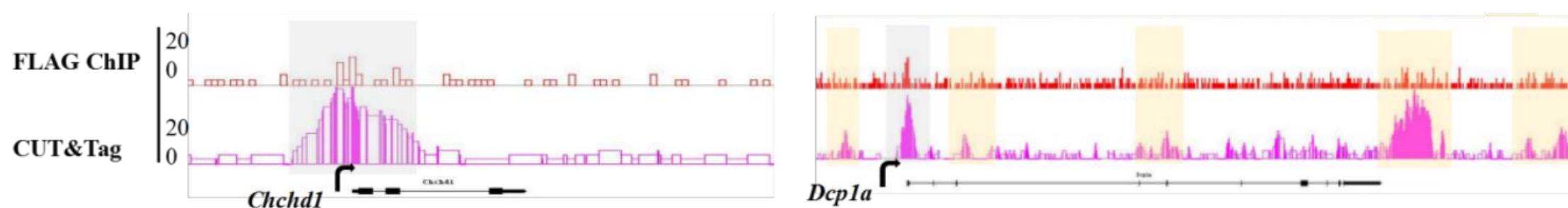


I

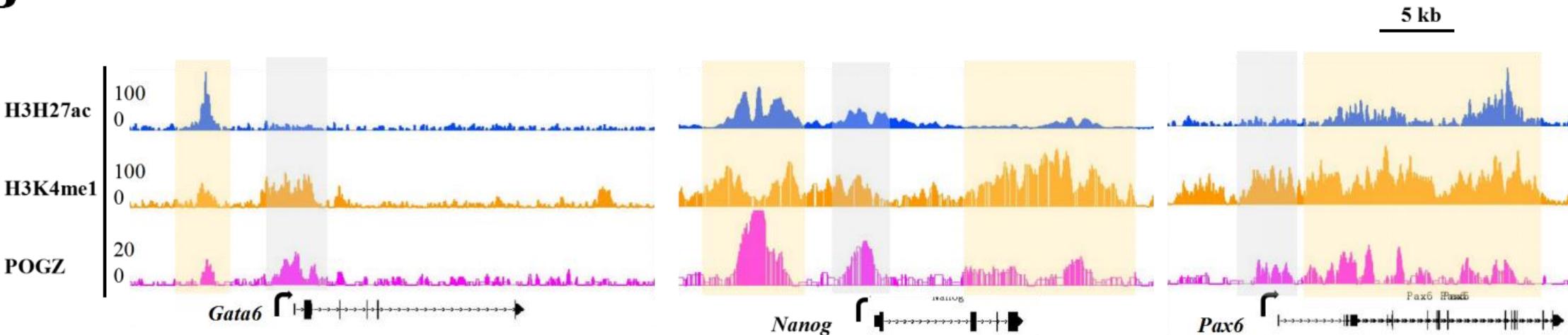


Supplementary Figure 4

A



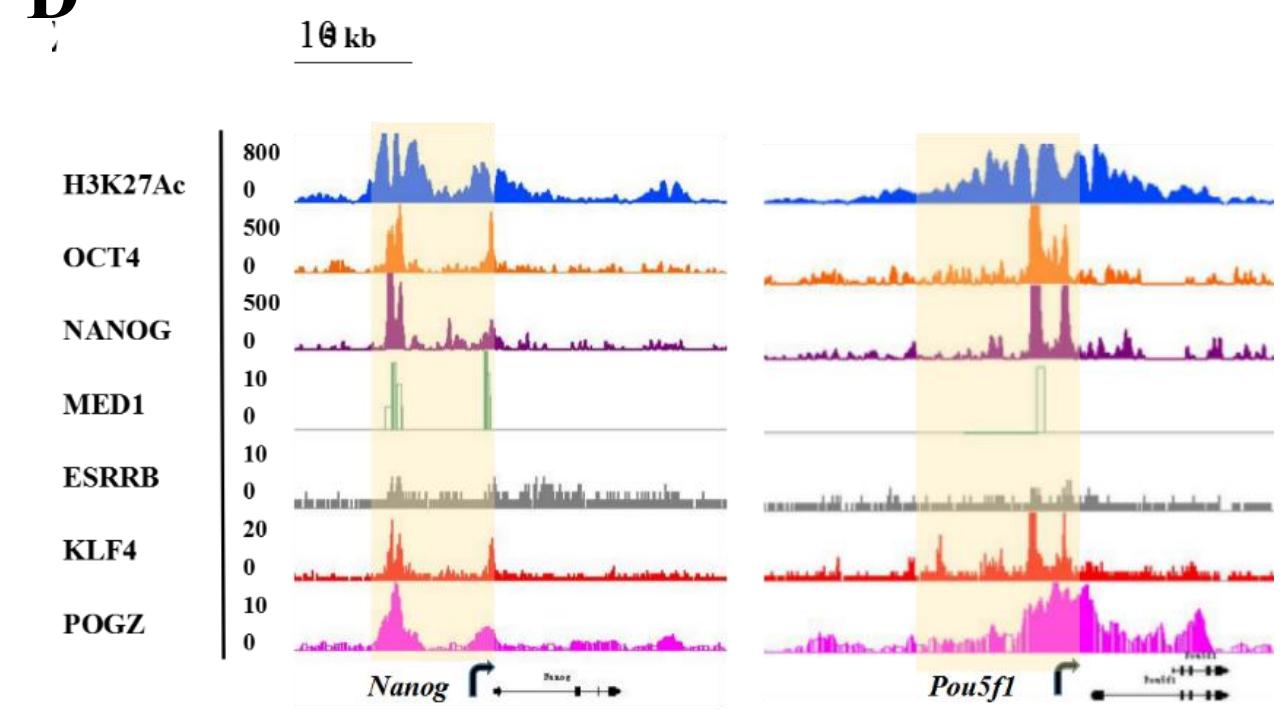
B



C

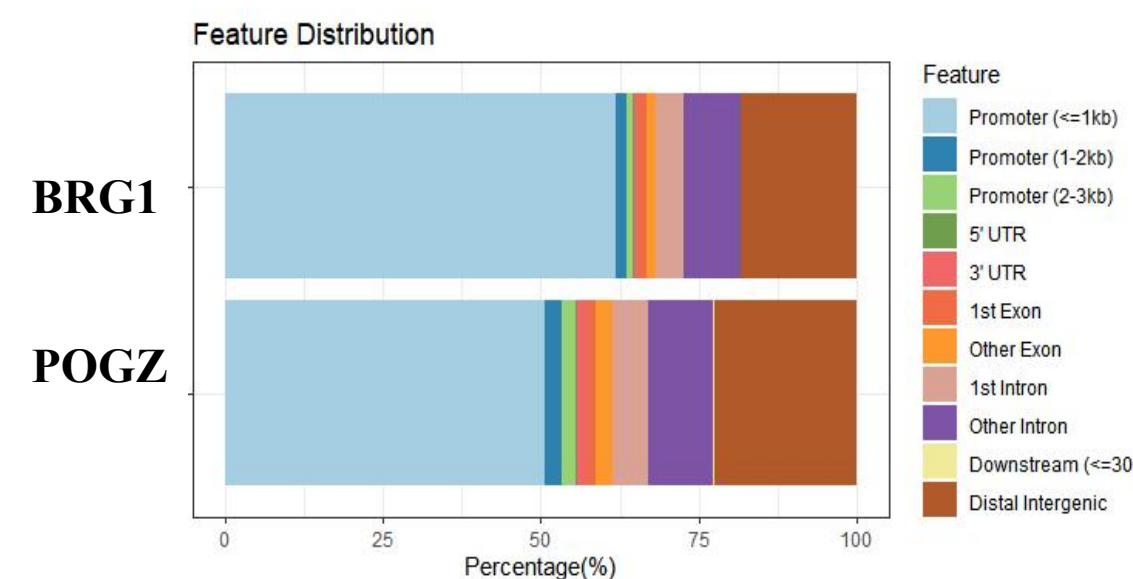
Rank	Motif	Name	P-value	log P-value	q-value (Benjamini)	# Target Sequences with Motif	% of Targets Sequences with Motif	# Background Sequences with Motif	% of Background Sequences with Motif
1		KLF1(Zf)/HUDEP2-KLF1-CutnRun(GSE136251)/Homer	1e-508	-1.170e+03	0.0000	4845.0	28.96%	4504.4	14.42%
2		Sp2(Zf)/HEK293-Sp2.eGFP-ChIP-Seq(Encode)/Homer	1e-421	-9.706e+02	0.0000	6418.0	38.37%	7233.7	23.16%
3		KLF3(Zf)/MEF-Klf3-ChIP-Seq(GSE44748)/Homer	1e-412	-9.506e+02	0.0000	3127.0	18.69%	2534.2	8.11%
4		Sp5(Zf)/mES-Sp5.Flag-ChIP-Seq(GSE72989)/Homer	1e-407	-9.379e+02	0.0000	5089.0	30.42%	5261.8	16.85%
5		KLF5(Zf)/LoVo-KLF5-ChIP-Seq(GSE49402)/Homer	1e-368	-8.494e+02	0.0000	5599.0	33.47%	6216.1	19.90%
6		Sp1(Zf)/Promoter/Homer	1e-318	-7.336e+02	0.0000	2425.0	14.50%	1944.6	6.23%
7		Klf4(Zf)/mES-Klf4-ChIP-Seq(GSE11431)/Homer	1e-271	-6.244e+02	0.0000	1976.0	11.81%	1537.7	4.92%
8		KLF14(Zf)/HEK293-KLF14.GFP-ChIP-Seq(GSE58341)/Homer	1e-249	-5.743e+02	0.0000	6685.0	39.96%	8693.9	27.83%
9		Klf9(Zf)/GBM-Klf9-ChIP-Seq(GSE62211)/Homer	1e-239	-5.505e+02	0.0000	2343.0	14.01%	2106.4	6.74%
10		KLF6(Zf)/PDAC-KLF6-ChIP-Seq(GSE64557)/Homer	1e-238	-5.489e+02	0.0000	4523.0	27.04%	5260.6	16.84%
11		Ronin(THAP)/ES-Thap11-ChIP-Seq(GSE51522)/Homer	1e-149	-3.437e+02	0.0000	267.0	1.60%	58.5	0.19%
12		Elk4(ETS)/Hela-Elk4-ChIP-Seq(GSE31477)/Homer	1e-148	-3.425e+02	0.0000	2240.0	13.39%	2357.7	7.55%
13		KLF10(Zf)/HEK293-KLF10.GFP-ChIP-Seq(GSE58341)/Homer	1e-134	-3.093e+02	0.0000	2261.0	13.52%	2464.8	7.89%
14		EKLF(Zf)/Erythrocyte-Klf1-ChIP-Seq(GSE20478)/Homer	1e-124	-2.869e+02	0.0000	820.0	4.90%	593.4	1.90%
15		GFY-Staf1(Zf)/Promoter/Homer	1e-115	-2.662e+02	0.0000	323.0	1.93%	121.5	0.39%
16		SUT1(Zf)/SacCer-Promoters/Homer	1e-114	-2.628e+02	0.0000	13319.0	79.62%	22478.2	71.97%
17		SeqBias: CG bias	1e-106	-2.456e+02	0.0000	15209.0	90.92%	26628.8	85.26%
18		OCT4-SOX2-TCF-NANOG(POU,Homeobox,HMG)/mES-Oct4-ChIP-Seq(GSE11431)/Homer	1e-105	-2.424e+02	0.0000	505.0	3.02%	299.6	0.96%
19		ELF1(ETS)/Jurkat-ELF1-ChIP-Seq(SRA014231)/Homer	1e-100	-2.309e+02	0.0000	1967.0	11.76%	2233.8	7.15%
20		Maz(Zf)/HepG2-Maz-ChIP-Seq(GSE31477)/Homer	1e-100	-2.303e+02	0.0000	4972.0	29.72%	7062.5	22.61%

D

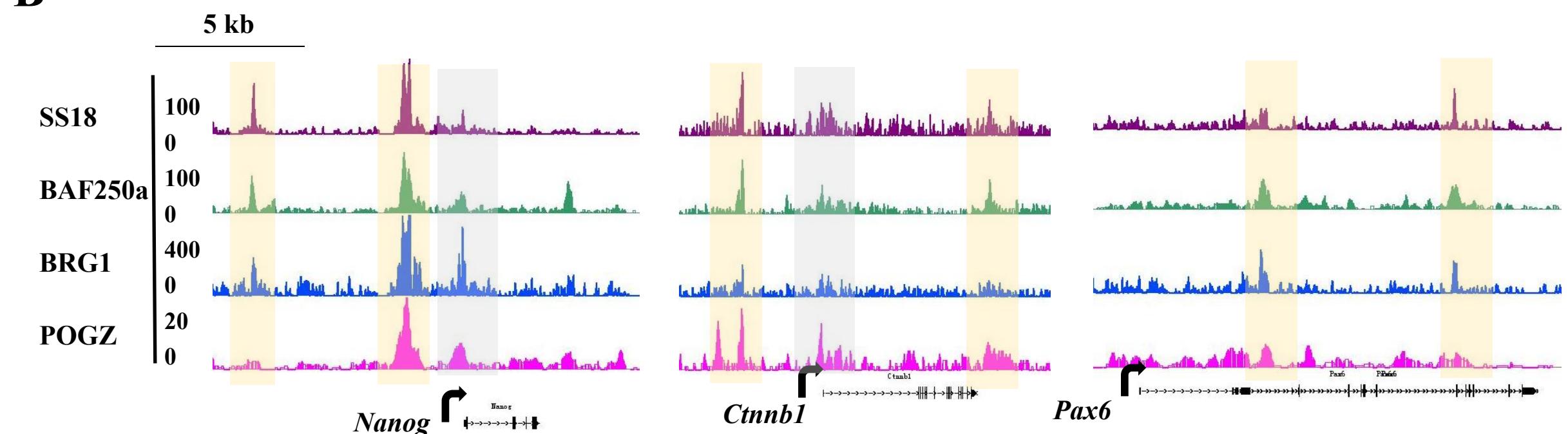


Supplementary Figure 5

A

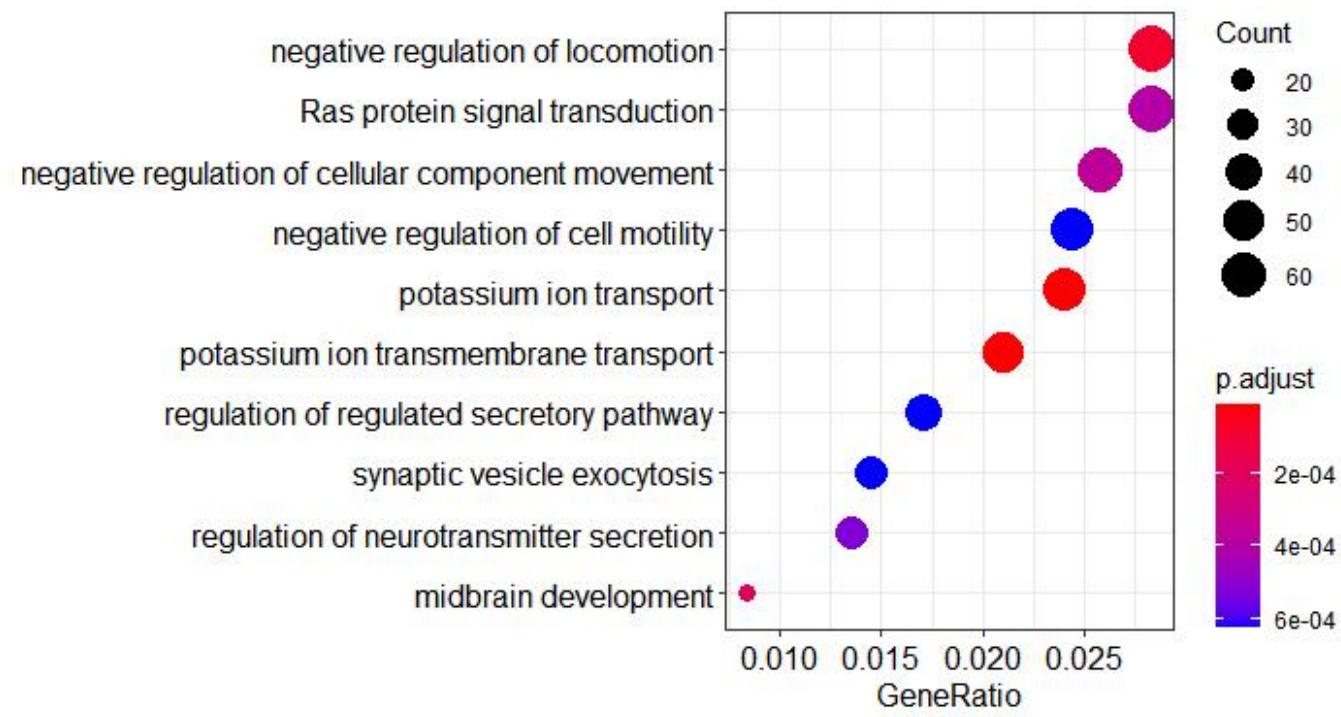


B



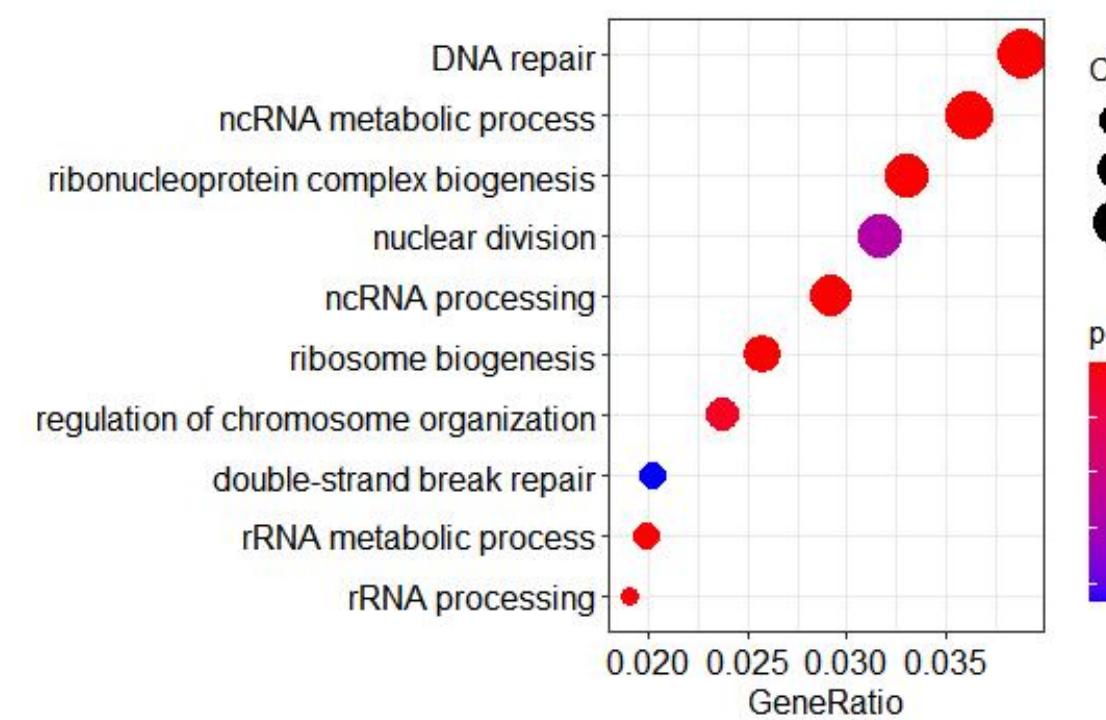
C

GO of BRG1⁺POGZ⁻ genes

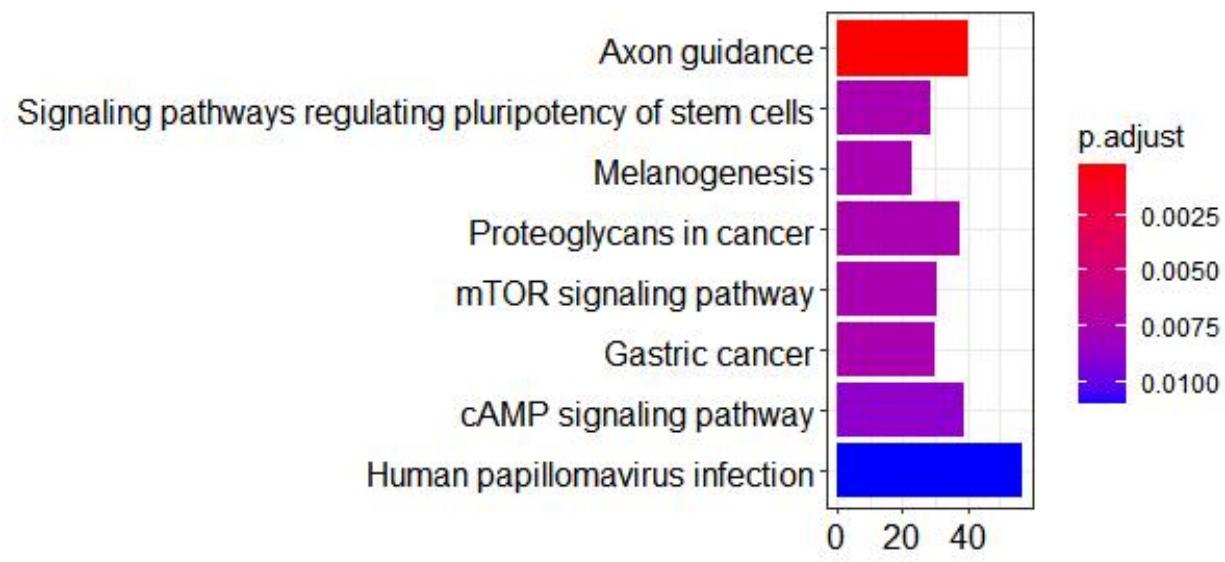


D

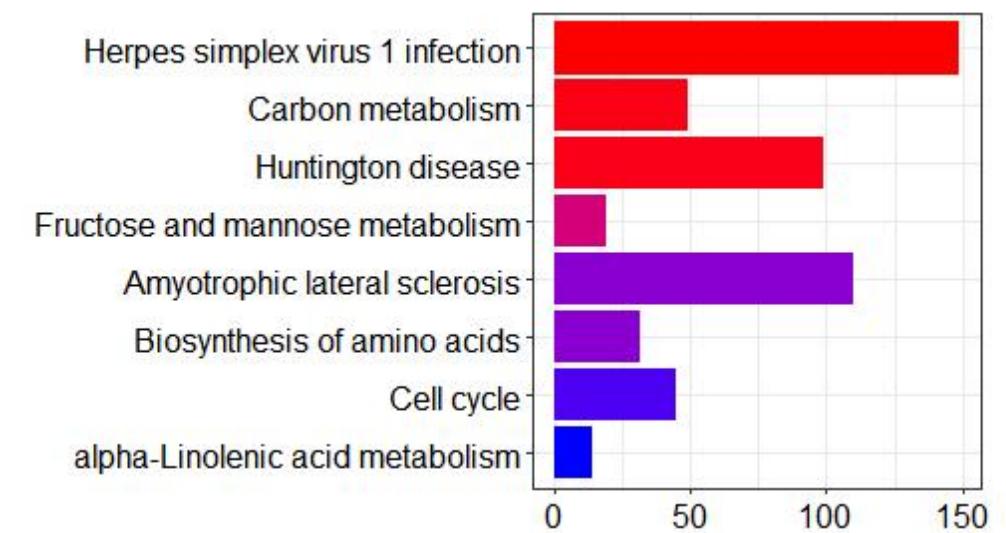
GO of BRG1⁻POGZ⁺ genes



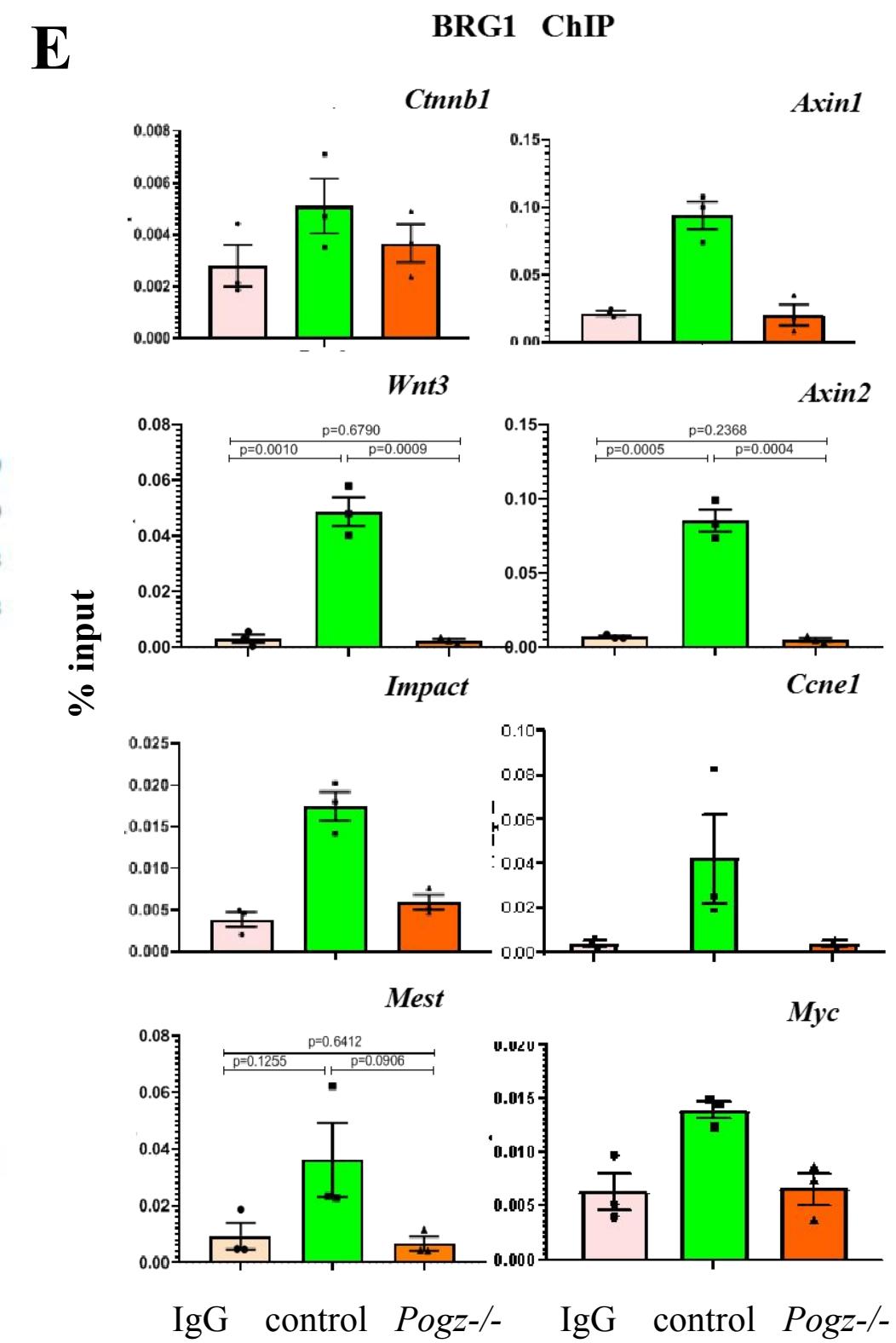
KEGG of BRG1⁺POGZ⁻ genes



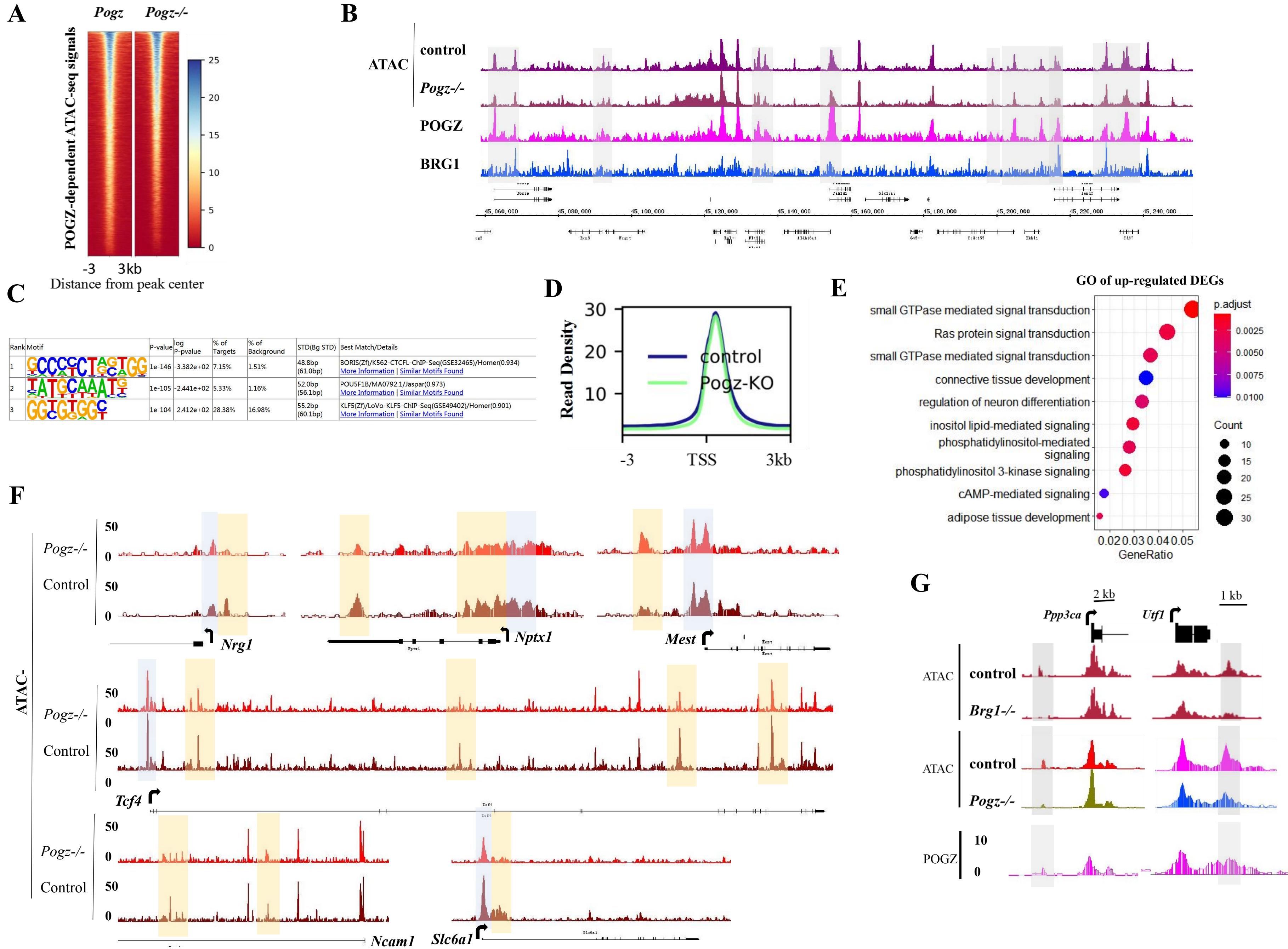
KEGG of BRG1⁻POGZ⁺ genes



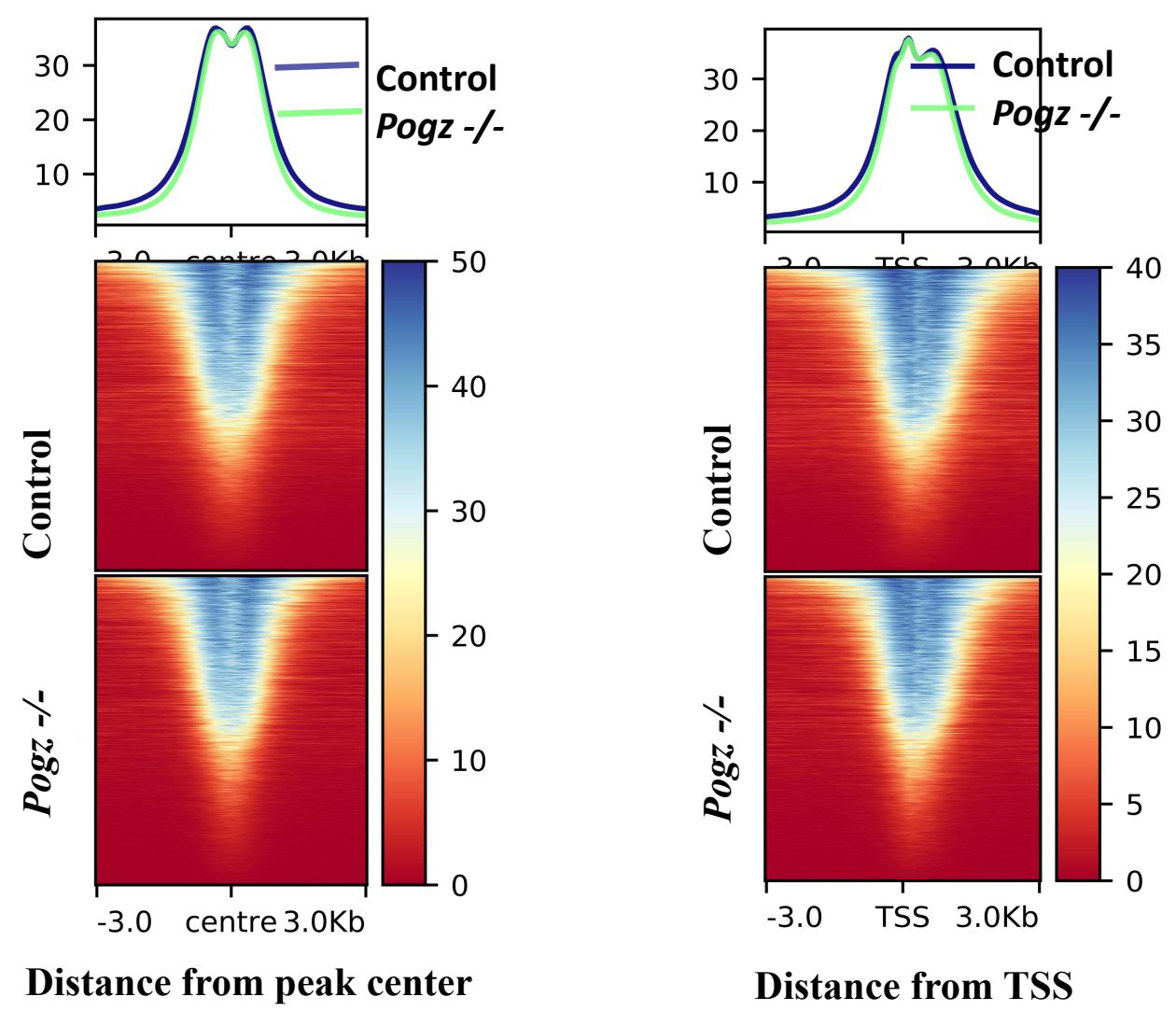
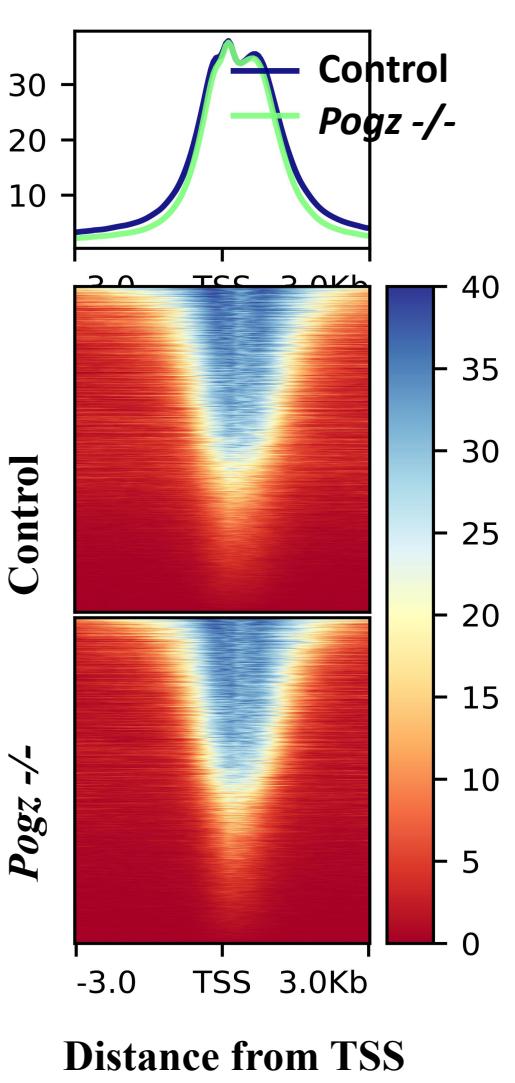
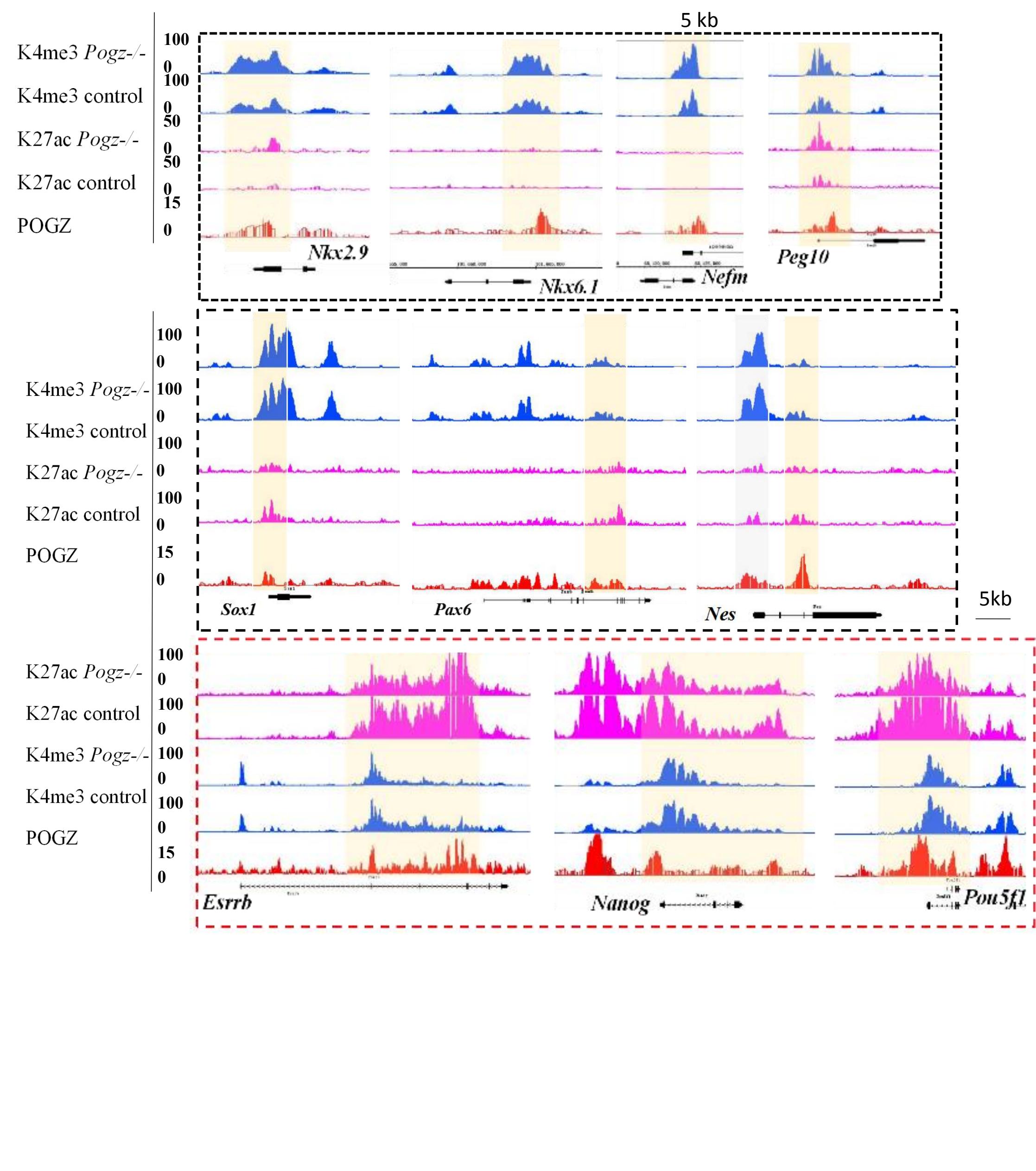
E



Supplementary Figure 6



Supplementary Figure 7

A

B

C

D
