

Epigenetic Regulation by Chromatin Activation Mark H3K4me3 in Primate Progenitor Cells within Adult Neurogenic Niche

Richard S. Sandstrom¹, Michael R. Foret², Douglas A. Grow^{2,3}, Eric Haugen¹, Christopher T. Rhodes², Astrid E. Cardona², Clyde F. Phelix², Yufeng Wang², Mitchel S. Berger⁴, and Chin-Hsing Annie Lin^{2,3*}

Supplemental Figure 1. Chromatin activation mark H3K4me3 is expressed in the SVZ cell lineages of mouse brain. (A-D) Double labeling of H3K4me3 (red) and NSC marker- GFAP (A, B) as well as other lineage-specific markers showed H3K4me3 co-expressing with Mash1 (C), PSA-NCAM (E), DCX (F), and Double-labeling of EdU and H3K4me3 in SVZ (D). Double-labeled cells were marked by arrows. (G, H) Antimitotic treatment abolished most of the H3K4me3 expressing cells in adult SVZ (H), whereas H3K4me3-positive cells were retained in saline control (G). LV: lateral ventricle; CC: Corpus Callosum; Str: Striatum (12 μ coronal sections; 40X oil; scale bar= 50 μ m).

Supplemental Figure 2. Network and Pathway analyses by IPA for H3K4me3 enriched genes in baboon SVZ cells. The top canonical pathways and networks were predicted by the Ingenuity Pathway Analysis software. The shaded focus genes (red highlight) were enriched with H3K4me3 identified by ChIP-Seq analysis. The node shape reflects the role of each element in the network and the direction and arrowhead shapes of each edge represent different types of interactions (see the key at left panel). (A) Post-translational modifications; (B) Network in Nervous System Development and Function; (C) Molecular transport.

Supplemental Figure 3. Network and Pathway analyses by IPA for H3K4me3 enriched genes in baboon SVZ cells. (A) Metabolism. (B) RNA post-transcriptional modification

Supplemental Figure 4. Network and Pathway analyses by IPA for H3K4me3 enriched genes in baboon SVZ cells highlight the Pathway related to Molecular Mechanisms of Cancer.

Supplemental Figure 5. Network and Pathway analyses for H3K4me3 enriched genes in baboon SVZ cells highlight the pathway of eIF4 signaling and ribosomal biogenesis.

Supplemental Figure 6. Venn diagram displays the differential and shared targets of H3K4me3 in the purified NSC (neural stem cell) versus NB (neuroblast) populations. The statistically overrepresented GO terms for each shared and unique targets are shown in the “box”.

Supplemental Table 1:

Summary of H3K4me3-enriched genes in the Baboon SVZ (i_{a-f}) NSCs; (ii_{a,b}) neuroblasts (NB); (iii_{a-f}) Total progenitors (NSC and NB); (iv_{a-d}) overlap comparison between NSC and NB populations; (v_{a,b}) Gene Ontology by DAVID for H3K4me3-enriched genes in NSCs; (vi) Gene Ontology by DAVID for H3K4me3-enriched genes in NBs.

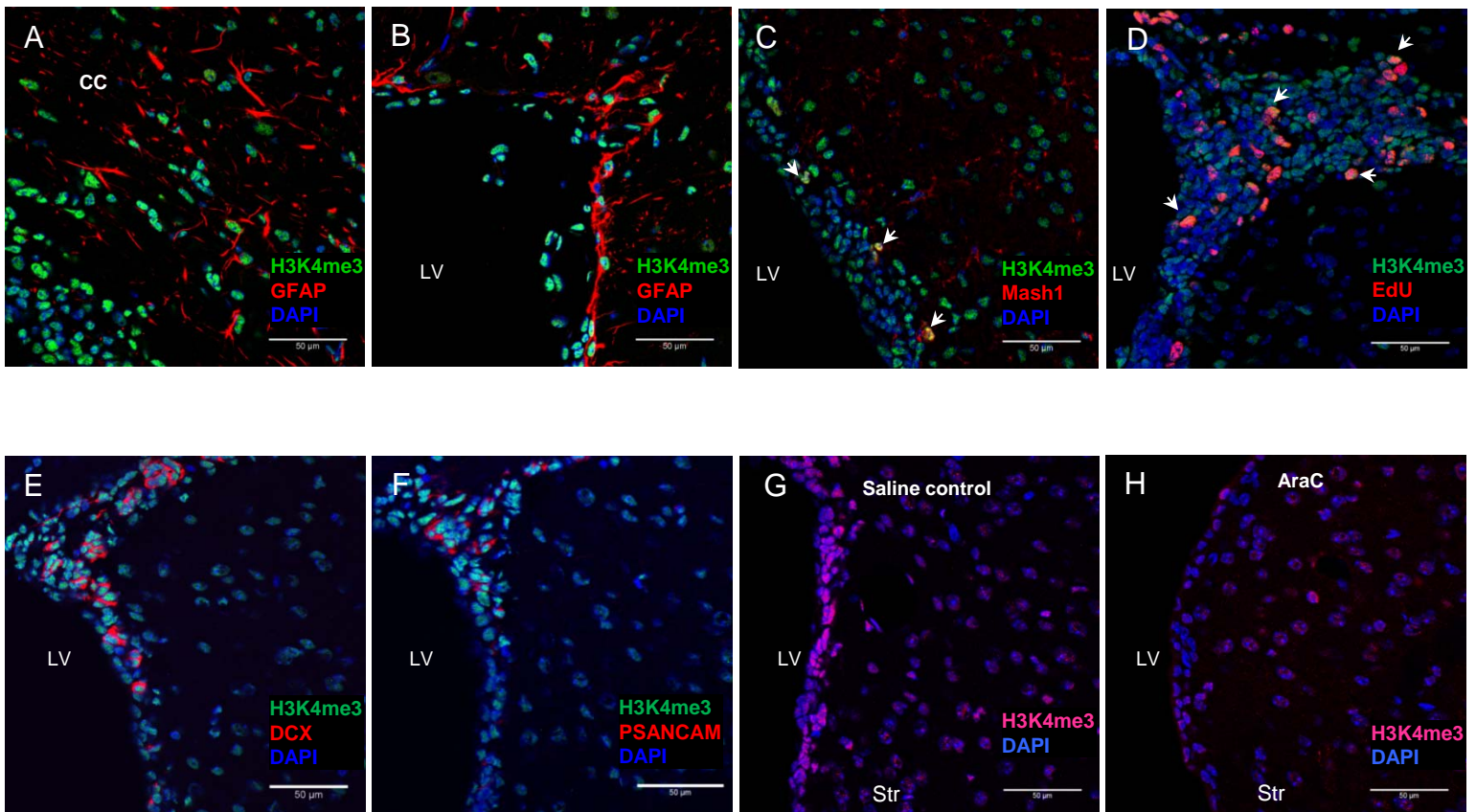
Supplemental Table 2:

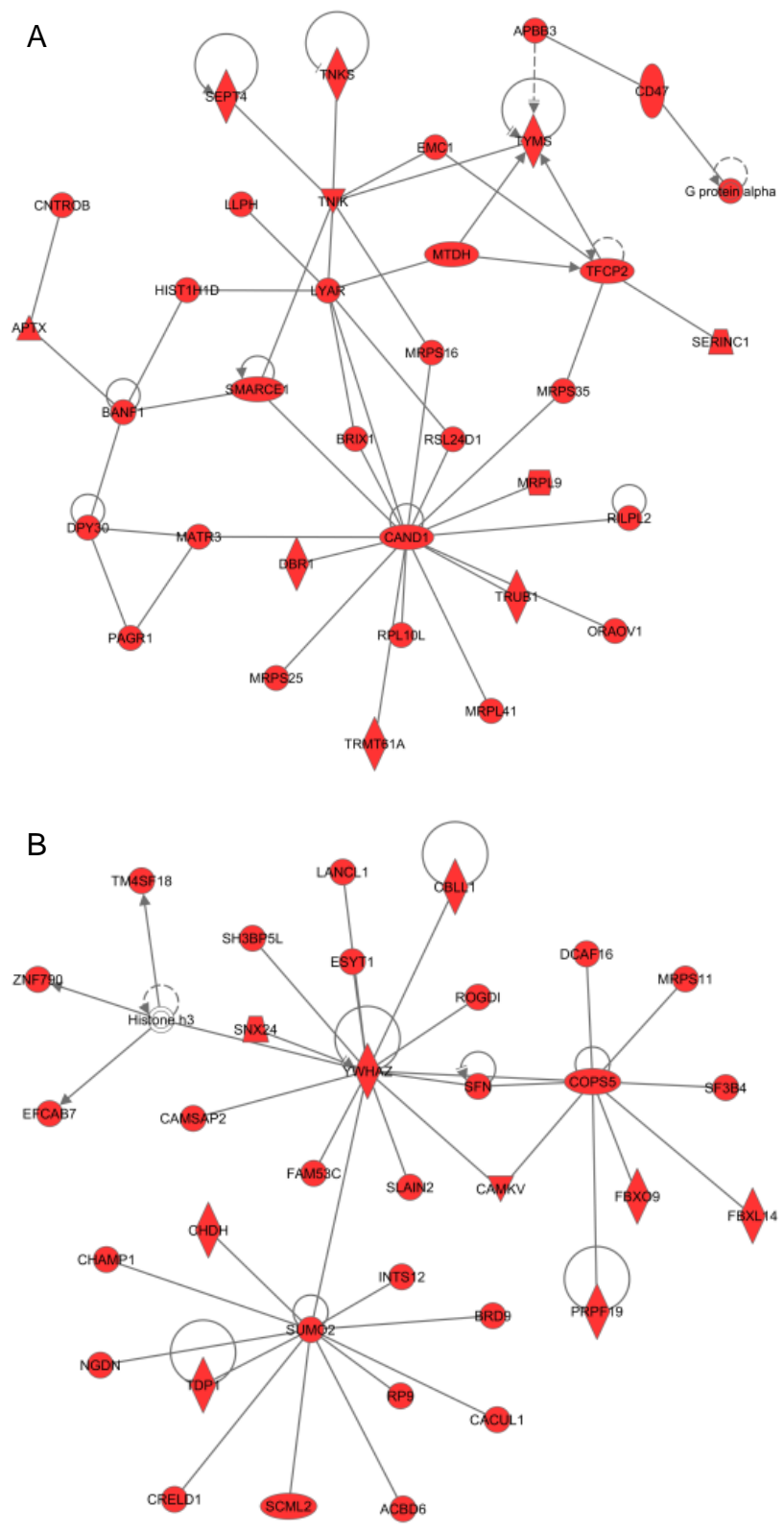
Summary of overlap targets and Gene Ontology by DAVID for (i_{a,b}) GBM1 RNA-Seq and H3K4me3 ChIP-Seq; (ii_{a,b}) GBM2 RNA-Seq and H3K4me3 ChIP-Seq; (iii_{a,b}) GBM1 RNA-Seq, GBM2 RNA-Seq, and H3K4me3 ChIP-Seq; (iv_a) Overlap genes among detectable transcripts from RNA-Seq of Baboon SVZ cells, GBM1 RNA-Seq, and GBM2 RNA-Seq; (iv_b) Overlap genes among undetectable transcripts from RNA-Seq of Baboon SVZ cells, GBM1 RNA-Seq, and GBM2 RNA-Seq. All deep sequencing data for ChIP-Seq and RNA-Seq generated during the course of this study refer to GEO files.

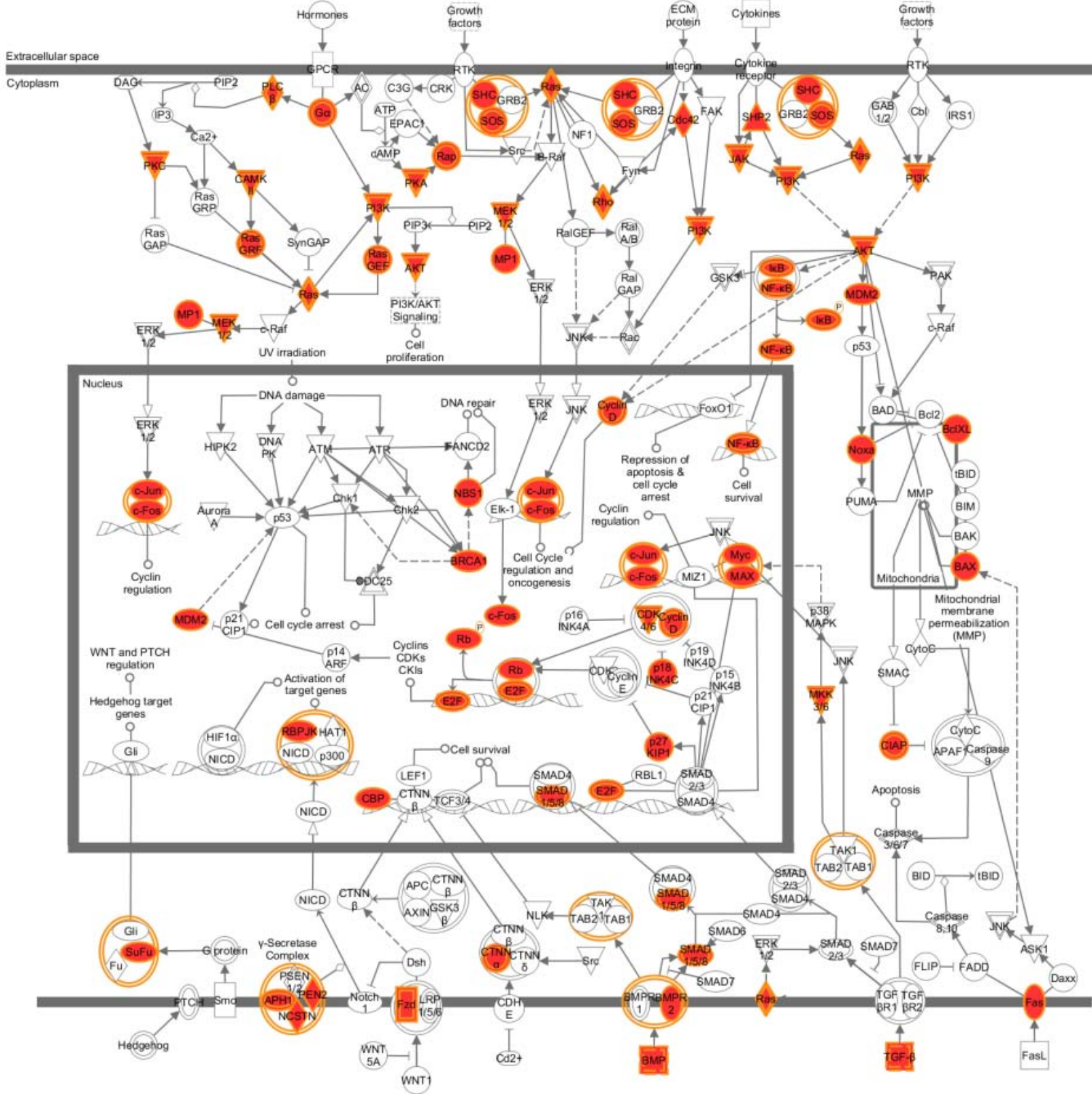
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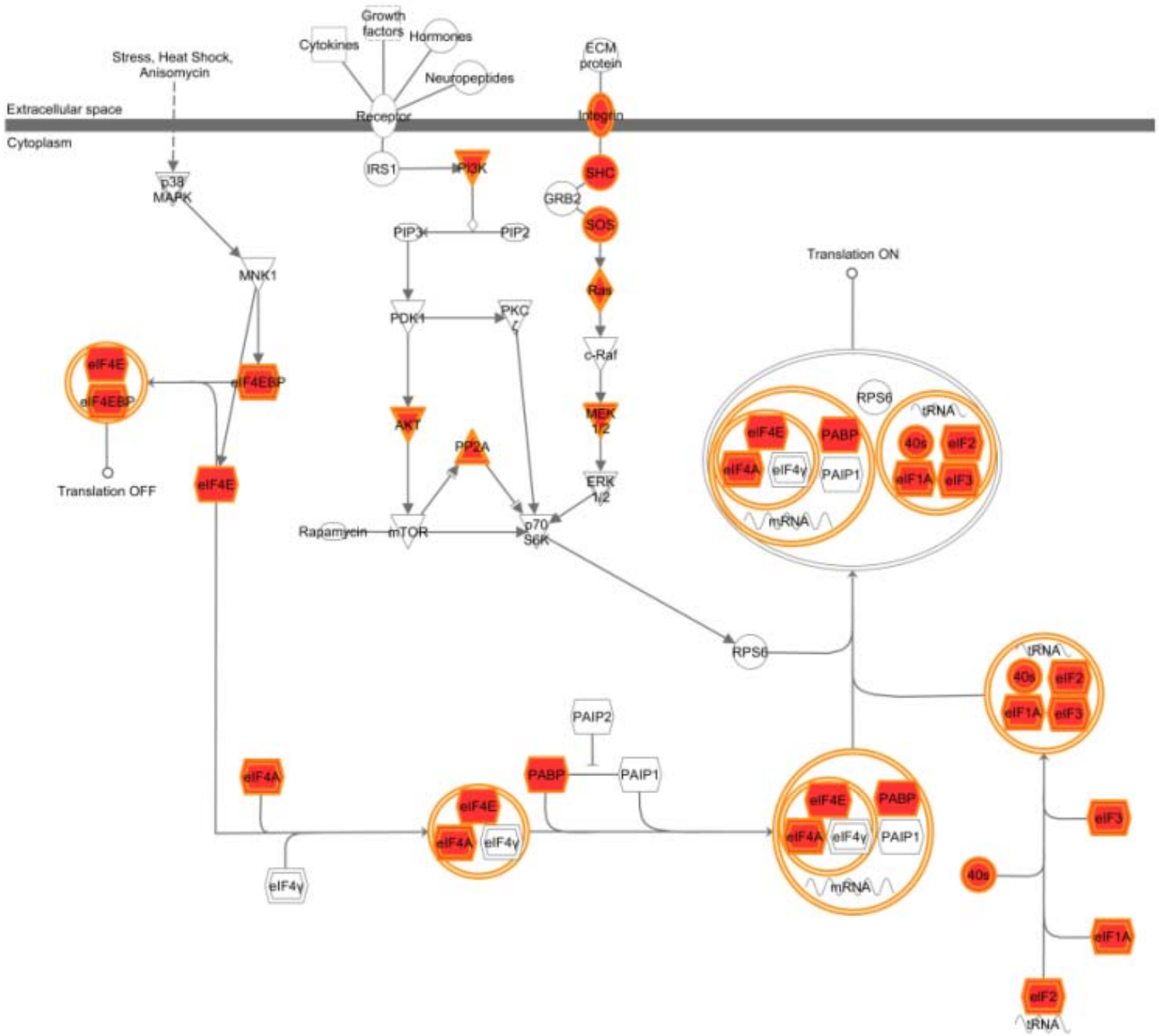
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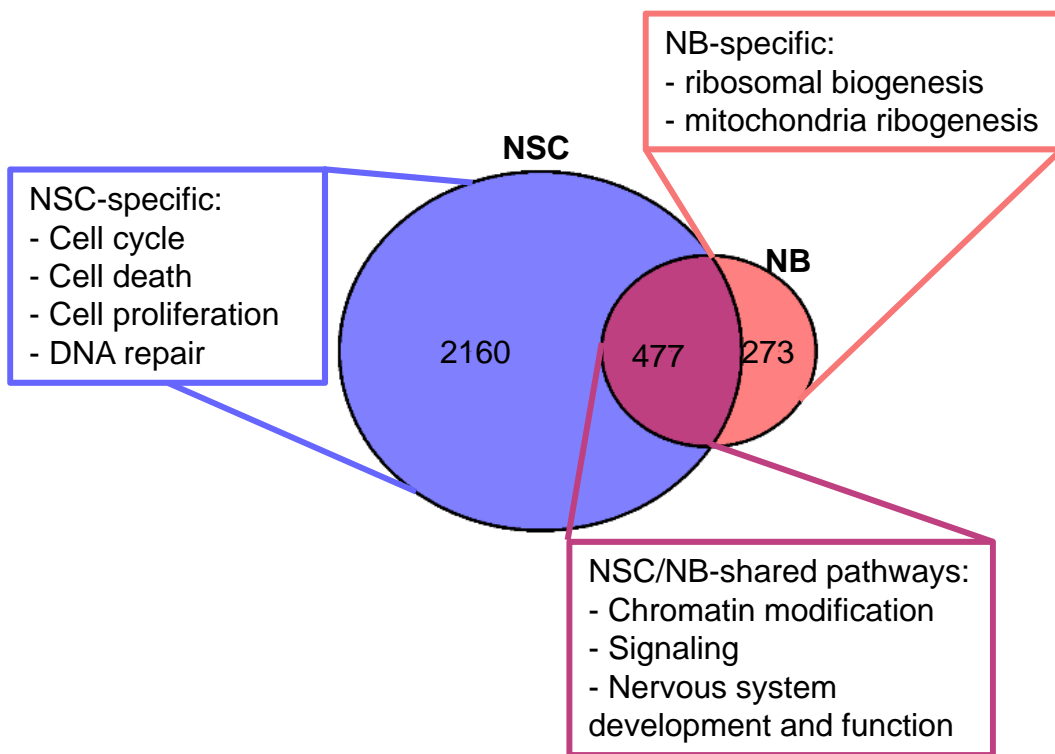
Lin_Supplemental Figure 1











Supplemental Table 1: (*i_a*) H3K4me3-enriched genes in the Baboon SVZ NSC population

Gene Name	RefSeq ID	Gene Name	RefSeq ID	Gene Name	RefSeq ID	Gene Name	RefSeq ID	Gene Name	RefSeq ID
HMX1	NM_001172429	ATG4C	NM_001257877	MRPL24	NM_001257844	TNR	NM_001261001	PRKCE	NM_001257741
ADD1	NM_001261471	PGM1	NM_001257491	PRCC	NM_001260635	RFW2	NM_001266265	ATP6V1E2	NM_001194583
MAEA	NM_001258174	JAK1	NM_001257909	CD1D	NM_001033114	ASTN1	NM_001266732	C13H2orf61	NM_001190958
PCGF3	NM_001258171	LEPR	NM_001032819	CD1B	NM_001145534	PGBD2	NM_001258110	EPCAM	NM_001040029
TLL10	NM_001163080	PDE4B	NM_001265964	ATP1A2	NM_001265686	ZNF692	NM_001261269	FOXN2	NM_001261043
GLTPD1	NM_001257474	SGIP1	NM_001265875	PEA15	NM_001198667	SH3BP5L	NM_001261606	ASB3	NM_001205031
MRPL20	NM_001260920	GADD45A	NM_001261305	NCSTN	NM_001260780	NLRP3	NM_001114351	SPTBN1	NM_001266968
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RER1	NM_001257522	ZRANB2	NM_001257636	TRIM11	NM_001261480	ADSS	NM_001261110	PEX13	NM_001258170
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SPSB1	NM_001257717	PIGK	NM_001260944	EPHX1	NM_001265807	RBM34	NM_001257648	PELL1	NM_001260952
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TOP3B	NM_001266407	CCDC65	NM_001194281	MED13L	NM_001261532	TMBIM1	NM_001266529	B9D1	NM_001266722
GNAZ	NM_001261596	TMBIM6	NM_001195449	TESC	NM_001257539	CTDSP1	NM_001193873	DHRS7B	NM_001261025

Supplemental Table 1: (i_b) H3K4me3-enriched genes in the Baboon SVZ NSC population

Gene Name	RefSeq ID	Gene Name	RefSeq ID	Gene Name	RefSeq ID	Gene Name	RefSeq ID	Gene Name	RefSeq ID
GUCD1	NM_001260970	COX14	NM_001261469	RFC5	NM_001261662	CRYBA2	NM_001194054	MAP2K3	NM_001265947
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PITPNB	NM_001266329	TFCP2	NM_001266217	PRKAB1	NM_001266115	DES	NM_001194266	LYRM9	NM_001193351
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DUSP18	NM_001261330	HOXC4	NM_001194756	RNF34	NM_001265820	EPHA4	NM_001260870	CRYBA1	NM_001194386
SELM	NM_001159399	OR10P1	NM_001194029	GPR81	NM_001145254	SCG2	NM_001194420	NUFIP2	NM_001261811
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CSNK1E	NM_001261652	AGAP2	NM_001266854	ARHGAP15	NM_001258096	EFDH1	NM_001257942	HOXB8	NM_001190887
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NUP50	NM_001265689	CAND1	NM_001261692	NR4A2	NM_001266910	TWIST2	NM_001193812	HLF	NM_001258177
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PPARA	NM_001033029	IFNG	NM_001032905	ACVR1C	NM_001266690	GPR35	NM_001193858	TMEM100	NM_001194249
CDPF1	NM_001194500	NUP107	NM_001261486	PKP4	NM_001266450	BOK	NM_001266922	NOG	NM_001265629
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LRTM2	NM_001261503	OSBP18	NM_001260879	GORASP2	NM_001261707	PDIA6	NM_001266635	PTRH2	NM_001194439
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VWF	NM_001243086	LSM3	NM_001261364	OLA1	NM_001266628	FAM84A	NM_001266538	DHR511	NM_001194811
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CREBL2	NM_001261237	BTG1	NM_001266672	ITGAV	NM_001265953	KIF3C	NM_001266930	CNP	NM_001035528
HEBP1	NM_001266629	CRADD	NM_001267004	COL3A1	NM_001266039	EPT1	NM_001135563	DNAJC7	NM_001261251
WBP11	NM_001257936	PLXNC1	NM_001261691	ASNSD1	NM_001194770	C13H2orf70	NM_001193808	HCRT	NM_001194432
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LYRM5	NM_001257657	FAM71C	NM_001193809	SLC39A10	NM_001260918	RASGRP3	NM_001261700	FTSJ3	NM_001266131
KRAS	NM_001261512	SCYL2	NM_001266890	GTF3C3	NM_001257564	FAM98A	NM_001267029	DDX5	NM_001258162
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REP15	NM_001194247	TCP11L2	NM_001261173	SPATS2L	NM_001260595	SLC8A1	NM_001032861	KCNJ2	NM_001032859
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FAR2	NM_001265709	PRDM4	NM_001257560	BMPR2	NM_001260859	PPM1B	NM_001266202	CDC42EP4	NM_001265833
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CSTA	NM_001258142	SERPIN1	NM_001260895	ZC3H7A	NM_001257840	RUNX1	NM_001265962	KRIT1	NM_001261769
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CHCHD6	NM_001266664	MME	NM_001260814	UBFD1	NM_001266120	ADAMTS1	NM_001266264	PHF2	NM_001258132
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VGLL4	NM_001194848	P2RY12	NM_001194370	C20H16orf82	NM_001145761	BTG3	NM_001266041	ORC5	NM_001261088
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NFYB	NM_001257720	TM4SF18	NM_001261318	BOLA2	NM_001194470	ZFAND2A	NM_001194857	DNAJB9	NM_001265876
SETD5	NM_001265978	PLSCR1	NM_001258077	ZNF688	NM_001194841	FTSJ2	NM_001266892	IMP2L1	NM_001261314
CAV3	NM_001194078	PLSCR4	NM_001266547	ORAI3	NM_001194521	NUDT1	NM_001261225	IFRD1	NM_001261783

Supplemental Table 1: (i_c) H3K4me3-enriched genes in the Baboon SVZ NSC population

Gene Name	RefSeq ID	Gene Name	RefSeq ID	Gene Name	RefSeq ID	Gene Name	RefSeq ID	Gene Name	RefSeq ID
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CRBN	NM_001195647	ACPL2	NM_001171842	C20H16orf87	NM_001194607	BRI3	NM_001266634	S7	NM_001168665
EBLN2	NM_001265951	MRAS	NM_001260569	PHKB	NM_001261044	SMURF1	NM_001257631	ASZ1	NM_001168607
FOXP1	NM_001266321	SOX14	NM_001194657	SIAH1	NM_001260838	FAM200A	NM_001194538	CTTNBP2	NM_001168625
MITF	NM_001266857	NCK1	NM_001257480	CBLN1	NM_001193684	ZNF498	NM_001257455	KCND2	NM_001261699
ARL6IP5	NM_001257759	TMEM22	NM_001260796	SNX20	NM_001261262	ZKSCAN1	NM_001194124	FAM3C	NM_001266245
UBA3	NM_001265961	PCCB	NM_001265851	RPGRIP1L	NM_001257423	C3H7orf43	NM_001194207	RNF133	NM_001198705
FAM19A1	NM_001261362	MSL2	NM_001266958	SLC6A2	NM_001033022	CUTL1	NM_001261815	NDUFA5	NM_001198685
SLC25A26	NM_001261056	PPP2R3A	NM_001257608	GNAO1	NM_001195429	ORAI2	NM_001265868	WASL	NM_001266797
PRICKLE2	NM_001260650	RAB6B	NM_001261236	MT3	NM_001266138	CCL24	NM_001194459	GPR37	NM_001257869
PSMD6	NM_001266757	TMEM108	NM_001265634	CPNE2	NM_001260641	DNAJC30	NM_001194544	GRM8	NM_001261246
SYNPR	NM_001266609	ATP2C1	NM_001266023	ARL2BP	NM_001267028	CLDN4	NM_001194564	GCC1	NM_001265763
C2H3orf14	NM_001257952	METTL6	NM_001266134	GPR56	NM_001033020	GT2IRD1	NM_001265885	TNPO3	NM_001266048
FHIT	NM_001257821	OXNAD1	NM_001265832	ZNF319	NM_001266824	GATSL2	NM_001266104	UBE2H	NM_001261059
FAM107A	NM_001257546	TBC1D5	NM_001258153	C20H16orf80	NM_001194181	WBSR17	NM_001265889	C3H7orf45	NM_001194010
SLMAP	NM_001261125	KCNH8	NM_001261509	GINS3	NM_001260655	TMEM248	NM_001193777	TSGA14	NM_001266838
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CHDH	NM_001257809	NKIRAS1	NM_001266422	CDH11	NM_001266613	PHKG1	NM_001261185	BPGM	NM_001266072
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MYD88	NM_001130681	STUB1	NM_001257558	TRAPPC2L	NM_001265756	SP4	NM_001266828	FAM50B	NM_001267791
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C2H3orf70	NM_001193899	GNG13	NM_001266642	DBNDD1	NM_001261592	TMEM196	NM_001194223	SLC35B3	NM_001257835
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DNAJC19	NM_001266267	ZNF263	NM_001266542	PWP2	NM_001257755	BZW2	NM_001194859	TMEM170B	NM_001261045
PIK3CA	NM_001260668	TIGD7	NM_001194837	TRAPPC10	NM_001266601	SOSTDC1	NM_001194311	C6orf105	NM_001193850
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PHF17	NM_001266133	CCL28	NM_001032877	IGIP	NM_001193358	ARPP19	NM_001266449	ARF6	NM_001194058
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NAA15	NM_001258103	ARL15	NM_001257418	PCDHB8	NM_001193904	RPS27L	NM_001193433	GNG2	NM_001190910
RAB33B	NM_001257437	SNX18	NM_001261750	TAF7	NM_001193945	CA12	NM_001257824	ERO1L	NM_001266764
SETD7	NM_001257503	IL6ST	NM_001265991	KIAA0141	NM_001193906	SNX1	NM_001266850	GPNAT1	NM_001260699
MGST2	NM_001261313	C5orf35	NM_001194171	GNPDA1	NM_001257944	SNX22	NM_001257708	FERM2	NM_001266319
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GAB1	NM_001266432	KIF2A	NM_001266858	RBM27	NM_001261062	PTPLAD1	NM_001266546	PSMA3	NM_001260896
SMARCA5	NM_001266324	HTR1A	NM_001198700	JAKMIP2	NM_001265812	RAB11A	NM_001261789	DAAM1	NM_001257504
HHIP	NM_001257597	RGS7BP	NM_001266063	SPINK9	NM_001193441	SNAPC5	NM_001261252	JKAMP	NM_001260993
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TLR2	NM_001130425	UTP15	NM_001260832	MRPL22	NM_001194584	NEO1	NM_001261500	MAX	NM_001261369
LRAT	NM_001193939	FAM169A	NM_001194120	ITK	NM_001266444	PML	NM_001042434	FAM71D	NM_001194896
NPY2R	NM_001032832	AGGF1	NM_001261037	CYFIP2	NM_001194296	SEMA7A	NM_001266762	TMEM229B	NM_001194355
GLRB	NM_001266452	LHFP2L	NM_001194391	C5orf40	NM_001194600	CSK	NM_001261636	ARG2	NM_001261253
GRIA2	NM_001185014	IMPACT	NM_001266051	UBLCP1	NM_001266391	COX5A	NM_001040279	RHD12	NM_001194401
FAM198B	NM_001266338	HOMER1	NM_001261570	TTC1	NM_001266114	SCAMP5	NM_001260562	DCAF5	NM_001257649
TMEM144	NM_001266261	PAPD4	NM_001261739	PTTG1	NM_001195222	ETFA	NM_001261119	KIAA0247	NM_001194447
C5H4orf46	NM_001257669	FAM151B	NM_001194307	GABRB2	NM_001168328	TPSPAN3	NM_001260729	PCNX	NM_001260747
NPY1R	NM_001032866	RPS23	NM_001193580	GABRG2	NM_001261778	CIB2	NM_001257882	SIPA1L1	NM_001266525
C5H4orf43	NM_001266649	CNHN	NM_001266446	RARS	NM_001261218	FAH	NM_001257529	RGS6	NM_001265721
CPE	NM_001258081	MEF2C	NM_001266447	FAM196B	NM_001193931	MESDC1	NM_001194462	DCAF4	NM_001258114
CBR4	NM_001193693	CETN3	NM_001266092	KCNMB1	NM_001266453	IL16	NM_001032808	PSEN1	NM_001266480
MFAP3L	NM_001266355	ARRDC3	NM_001260940	FBXW11	NM_001261308	STARD5	NM_001260916	ACOT6	NM_001171952
SAP30	NM_001266332	FAM172A	NM_001193887	UBT2D	NM_001194090	C7H15orf40	NM_001261261	ELMSAN1	NM_001257926
GPM6A	NM_001265765	GLRX	NM_001198722	DUSP1	NM_001257450	CPBE1	NM_001260826	VRTN	NM_001194898

Supplemental Table 1: (i_j) H3K4me3-enriched genes in the Baboon SVZ NSC population

Gene Name	RefSeq ID	Gene Name	RefSeq ID	Gene Name	RefSeq ID	Gene Name	RefSeq ID	Gene Name	RefSeq ID
CCDC85B	NM_001261659	ENDOD1	NM_001260700	KLF4	NM_001142793	TEX19	NM_001194590	ST8SIA5	NM_001083950
FAM89B	NM_001194782	SESN3	NM_001266247	RAD23B	NM_001261788	FN3KRP	NM_001194815	SMAD2	NM_001266803
FRMD8	NM_001260904	MTMR2	NM_001257894	TAL2	NM_001194446	CRYL1	NM_001266898	C18H18orf32	NM_001190838
MRPL49	NM_001266995	JRKL	NM_001265892	OR13C8	NM_001194361	ZMYM2	NM_001265737	MAPK4	NM_001265666
DNAJC4	NM_001257620	BIRC2	NM_001261321	PPP3R2	NM_001195420	PSPC1	NM_001257902	SMAD4	NM_001261090
MACROD1	NM_001194685	DDI1	NM_001194140	ZNF189	NM_001261609	MTMR6	NM_001267015	TXNL1	NM_001261708
COX8A	NM_001266102	KIAA1826	NM_001194188	ALG2	NM_001260984	SHISA2	NM_001193967	LMAN1	NM_001261072
C14H11orf84	NM_001194689	AASDHPPPT	NM_001171189	GALNT12	NM_001194577	PRHOXNB	NM_001194734	PMaip1	NM_001260640
C14H11orf83	NM_001261292	ELMOD1	NM_001266487	TMOD1	NM_001265684	POMP	NM_001257806	RNF152	NM_001193834
GANAB	NM_001194711	C14H11orf65	NM_001194273	EXOSC3	NM_001257940	SLC7A1	NM_001266615	KDSR	NM_001257943
FADS2	NM_001194717	C14H11orf87	NM_001194288	ZBTB5	NM_001261623	UBL3	NM_001257793	SERPINB10	NM_001194818
C14H11orf10	NM_001244602	GPHN	NM_001257815	CCIN	NM_001198698	KATNAL1	NM_001194119	TXN3	NM_001266505
C14H11orf9	NM_001194718	C14H11orf1	NM_001194787	GLIPR2	NM_001266729	ALOX5AP	NM_001266489	DOK6	NM_001266038
PRPF19	NM_001261081	HSPB2	NM_001194788	RUSC2	NM_001266666	RXF2P2	NM_001195757	CD226	NM_001042643
MS4A7	NM_001261147	C14H11orf57	NM_001194375	FANCG	NM_001266530	STARD13	NM_001261243	NETO1	NM_001257852
APLNr	NM_001047126	TEX12	NM_001194392	AQP3	NM_001258043	RFC3	NM_001266801	C18orf55	NM_001193707
ORA47	NM_001194088	PTS	NM_001266614	SMU1	NM_001265906	MAB21L1	NM_001194220	CNDP2	NM_001257758
CHRM4	NM_001194555	ZBTB16	NM_001257623	TMEM215	NM_001194216	RFXAP	NM_001265913	PQLC1	NM_001265722
PHF21A	NM_001265672	REXO2	NM_001193813	C4H6orf203	NM_001266984	EXOSC8	NM_001260538	TXNL4A	NM_001260866
SLC35C1	NM_001258150	BACE1	NM_001260928	C15H9orf72	NM_001257526	STOML3	NM_001193787	RNF126	NM_001261265
CHST1	NM_001265911	FXYD6	NM_001260855	MOB3B	NM_001261049	LHPF	NM_001261616	GPX4	NM_001118889
TSPAN18	NM_001266877	SCN2B	NM_001195475	PLAA	NM_001260548	ELF1	NM_001260954	ATP5D	NM_001261689
ACCS	NM_001260528	ARCN1	NM_001265905	CAAP1	NM_001194328	C13orf15	NM_001193922	CIRBP	NM_001261316
C14H11orf74	NM_001267023	DPAGT1	NM_001257856	TUSC1	NM_001265623	C13orf31	NM_001193989	GAMT	NM_001261132
TRIM44	NM_001260523	USP2	NM_001265896	ELAVL2	NM_001261000	GTFF2F2	NM_001266711	UQCRR	NM_001257804
SLC12A2	NM_001261669	THY1	NM_001042638	MTAP	NM_001261737	LCP1	NM_001266307	FAM108A1	NM_001267030
ELF5	NM_001194687	TBCEL	NM_001266372	KLHL9	NM_001194799	ESD	NM_001257479	SLC39A3	NM_001190948
LMO2	NM_001266207	SC5DL	NM_001257517	PTPLAD2	NM_001194139	HTR2A	NM_001032966	S1PR4	NM_001266185
CSTF3	NM_001257622	UBASH3B	NM_001261286	RRAGA	NM_001194800	MED4	NM_001265782	E2F2	NM_001265796
QSER1	NM_001257718	SCN3B	NM_001194283	SNAPC3	NM_001260804	RB1	NM_001261047	TNFAIP8L1	NM_001193682
PAX6	NM_001266257	OR4D5	NM_001194427	CER1	NM_001194495	LPAR6	NM_001194165	KDM4B	NM_001266448
DNAJC24	NM_001261745	ESAM	NM_001257484	PDCD1LG2	NM_001083599	ARL11	NM_001194262	VIMAC	NM_001193782
MPPED2	NM_001261498	ST3GAL4	NM_001266675	JAK2	NM_001265901	ALG11	NM_001190890	SLC25A23	NM_001257915
ARL14EP	NM_001261159	BARX2	NM_001194603	RCL1	NM_001257757	PCDH17	NM_001265711	CRB3	NM_001266081
LINC7	NM_001266451	TMEM45B	NM_001194533	SLC1A1	NM_001265831	PCDH9	NM_001258186	MCOLN1	NM_001260540
FIBIN	NM_001193892	VPS26B	NM_001257745	CBWD1	NM_001193953	KLHL1	NM_001195300	CD209	NM_001033089
ANO3	NM_001265904	ZMYND19	NM_001194731	PTAR1	NM_001265943	KLF12	NM_001258129	RAB11B	NM_001261484
SVIP	NM_001261697	C15H9orf142	NM_001193927	KLF9	NM_001265918	TBC1D4	NM_001172423	ACTL9	NM_001194016
GAS2	NM_001257624	INPP5E	NM_001194013	CYP1D1	NM_001246671	UCHL3	NM_001266166	OR1M1	NM_001194210
MRGPRX2	NM_001040422	NAACC2	NM_001261341	RORB	NM_001260751	KCTD12	NM_001266392	OR7M4	NM_001168329
LOC696844	NM_001202444	BRD3	NM_001194118	NMRK1	NM_001261283	FBXL3	NM_001261635	ZNF177	NM_001266619
RPS13	NM_001265917	VAV2	NM_001265633	GNA14	NM_001265908	SLITRK1	NM_001260787	UBL5	NM_001261050
C14H11orf58	NM_001193864	SURF4	NM_001194793	TLE1	NM_001265628	SLITRK5	NM_001265627	PPAN	NM_001204429
SPON1	NM_001266118	GTF3C4	NM_001260973	GKAP1	NM_001266459	DNAJC3	NM_001266404	P2RY11	NM_001204430
BTBD10	NM_001265857	NTNG2	NM_001265764	NTRK2	NM_001261297	RAP2A	NM_001193832	ICAM3	NM_001195749
ARNTL	NM_001257837	MED27	NM_001266508	NAA35	NM_001194389	STK24	NM_001266859	C19H19orf52	NM_001194256
DKK3	NM_001265749	UCK1	NM_001194319	DAPK1	NM_001257788	SLC15A1	NM_001032899	ACP5	NM_001258183
RNF141	NM_001266485	AIF1L	NM_001194341	CDK20	NM_001032925	UBAC2	NM_001171176	C19orf56	NM_001194406
SWAP70	NM_001172414	C15H9orf78	NM_001267022	SHC3	NM_001265690	TEX30	NM_001266631	TNPO2	NM_001261575
C11orf17	NM_001194219	METTL11A	NM_001266620	CKS2	NM_001267543	ARGLU1	NM_001194022	C19H19orf43	NM_001194424
RPL27A	NM_001193567	CRAT	NM_001261113	GADD45G	NM_001193910	ANKRD10	NM_001257442	JUNB	NM_001194461
RIC3	NM_001261177	SH3GLB2	NM_001266269	NAIF1	NM_001193947	F7	NM_001080136	CALR	NM_001261131
OR10A4	NM_001190742	LRRC8A	NM_001257576	FAM102A	NM_001266645	F10	NM_001104584	STX10	NM_001261693
TAF10	NM_001265786	URM1	NM_001266132	ANGPTL2	NM_001109811	CDC16	NM_001266466	IER2	NM_001260634
OR52W1	NM_001194213	PSMB7	NM_001265663	SYK	NM_001261035	MCSR	NM_001193897	NDUFB7	NM_001194515
TRIM22	NM_001113359	LHX2	NM_001261792	AUH	NM_001257675	LDLRAD4	NM_001266659	AKAP8L	NM_001260986
HBE1	NM_001047147	STRBP	NM_001261080	NFIL3	NM_001266913	PSMG2	NM_001193620	AP1M1	NM_001257538
OR51G2	NM_001194547	ZBTB26	NM_001261685	CENPP	NM_001194801	CHMP1B	NM_001194816	SLC35E1	NM_001266345
OR52M1	NM_001194566	OR1Q1	NM_001193814	BICD2	NM_001257956	NAPG	NM_001258101	USE1	NM_001257921
RHOQ	NM_001194601	RBM18	NM_001260865	NINJ1	NM_001194415	RAB31	NM_001266436	ABHD8	NM_001265784
LRTOMT	NM_001199354	STOM	NM_001266229	HIATL1	NM_001194284	NDUFV2	NM_001257585	MRPL34	NM_001193420
C11orf59	NM_001194634	RAB14	NM_001194795	FBP1	NM_001193652	ZFP161	NM_001265870	INSL3	NM_001204361
PDE2A	NM_001130826	TRAF1	NM_001265893	HSD17B3	NM_001266504	SMCHD1	NM_001258166	PIK3R2	NM_001258052
FCHSD2	NM_001265957	DBC1	NM_001260978	GLOD4	NM_001265952	TYMS	NM_001195507	SUGP1	NM_001261744
FAM168A	NM_001194786	TLR4	NM_001037092	INPP5K	NM_001260646	PHACTR1	NM_001260596	LYRM2	NM_001265787
PGM2L1	NM_001265664	TRIM32	NM_001261350	TLCD2	NM_001194730	GFOD1	NM_001266214	GJA10	NM_001193951
OR2AT4	NM_001193723	TNFSF8	NM_001266670	CYB5D2	NM_001193968	CD83	NM_001261335	FUT9	NM_001194065
SERPINH1	NM_001261087	C15H9orf91	NM_001194142	MED11	NM_001194014	MYLIP	NM_001261795	HLX32	NM_001261738
NDUFC2	NM_001266174	POLE3	NM_001257857	PSMB6	NM_001195714	CAP2	NM_001266532	FBXL4	NM_001266033
FAM181B	NM_001194034	HDHD3	NM_001194198	SLC25A11	NM_001265923	NUP153	NM_001261594	FACH	NM_001266112
RAB30	NM_001261123	SLC31A1	NM_001257506	RPAIN	NM_001194178	RNF144B	NM_001265699	MCHR2	NM_001032948
CCDC90B	NM_001260811	KIAA1958	NM_001194796	WSCD1	NM_001257765	ID4	NM_001265656	DCUN1D1	NM_001257454
TMEM126B	NM_001267027	HSDL2	NM_001199126	XAF1	NM_001194803	PRL	NM_001047128	POPC3	NM_001257913
PICALM	NM_001266499	UGCG	NM_001257723	KCTD11	NM_001194377	NRSN1	NM_001257709	PREP	NM_001257914
FZD4	NM_001266875	DNAJC25	NM_001204971	TNFSF12	NM_001205135	ACOT13	NM_001171950	QRSL1	NM_001257501
CTSC	NM_001195651	C15H9orf152	NM_001194353	TMEM107	NM_001194554	GMNN	NM_001258199	SOBP	NM_001104534
C14H11orf75	NM_001193371	AKAP2	NM_001204120	MFSD6L	NM_001194592	CMAH	NM_001032856	SEC63	NM_001266833
FOLR4	NM_001193805	C9orf4	NM_001194376	RCVRN	NM_001194602	HIST1H1A	NM_001193709	GTF2H5	NM_001190969
PIWIL4	NM_001195514	FAM206A	NM_001260843	TMEM220	NM_001194807	HIST1H1T	NM_001080761	ZDHHC14	NM_001266260
SLC9A3R1	NM_001266178	SNRPD1	NM_001260829	LPAR2	NM_001266718	HIST1H1D	NM_001193819	TFB1M	NM_001261482
CDR2L	NM_001266027	RBBP8	NM_001258203	PLEKHF1	NM_001193737	ZNF322A	NM_001265932	CKNSR3	NM_001265835
HN1	NM_001039945	SS18	NM_001257494	ZNF507	NM_001260941	HIST1H1B	NM_001194063	IPCEF1	NM_001257599
MRPS7	NM_001261058	AQP4	NM_001257671	PDCD5	NM_001265692	GPX6	NM_001159358	MYCT1	NM_001194146
KIAA0195	NM_001265878	CHST9	NM_001261472	KCTD15	NM_001266955	GPX5	NM_001159302	C4H6orf211	NM_001257928
ACOX1	NM_001265969	TTR	NM_001261679	LSM14A	NM_001257954	TRIM27	NM_001260792	ZBTB2	NM_001258066
SEC14L1	NM_001258116	B4GALT6	NM_001257591	KIAA0355	NM_001193886	GABBR1	NM_001261276	GINM1	NM_001193728
TNRC6C	NM_001260746	NOL4	NM_001194221	SCN1B	NM_001258167	MOG	NM_001194863	TAB2	NM_001257790
SOC53	NM_001194326	MAPRE2	NM_001194241	FAM187B	NM_001193997	RPP21	NM_001047138	UST	NM_001257513
CYTH1	NM_001261797	ZNF24	NM_001266015	HCST	NM_001032835	NRM	NM_001105167	G6orf103	NM_001193764
TBC1D16	NM_001266638	GALNT1	NM_001260602	POLR2I	NM_001266627	MDC1	NM_001114947	RAB32	NM_001193894
NPTX1	NM_001266044	RPRD1A	NM_001260968	COX7AH	NM_001040278	FLOT1	NM_001105168	FBXO30	NM_001261073
C16H17orf70	NM_001194508	C18orf10	NM_001260587	ZNF790	NM_001261671	LSM2	NM_001260685	STX11	NM_001260831

Supplemental Table 1: (*i_e*) H3K4me3-enriched genes in the Baboon SVZ NSC population

Gene Name	RefSeq ID	Gene Name	RefSeq ID	Gene Name	RefSeq ID	Gene Name	RefSeq ID	Gene Name	RefSeq ID
SIRT7	NM_001257960	RIT2	NM_001257707	ZNF345	NM_001194827	FKBPL	NM_001194632	PLAGL1	NM_001260788
PYCR1	NM_001265983	ATP5A1	NM_001266412	SPINT2	NM_001194343	SLC39A7	NM_001261144	AIG1	NM_001260585
ACTN4	NM_001261802	CXCL13	NM_001032880	UXNL1	NM_001114959	VTA1	NM_001261520	UBXN2B	NM_001261602
NFKBIB	NM_001258157	CCNI	NM_001195445	TAPBP	NM_001261727	ABRACL	NM_001193359	CYP7A1	NM_001193803
MED29	NM_001266603	STBD1	NM_001194876	CUTA	NM_001265646	HEBP2	NM_001194081	TOX	NM_001261489
SUPT5H	NM_001266951	PARM1	NM_001266923	NUDT3	NM_001194714	TNFAIP3	NM_001261344	CAB8	NM_001261295
DYRK1B	NM_001266667	MTHFD2L	NM_001193907	RPL10A	NM_001266226	IFNGR1	NM_001266300	RAB2A	NM_001193860
AKT2	NM_001265989	IL8	NM_001032965	KCTD20	NM_001257899	TCF21	NM_001260958	CLVS1	NM_001265738
PLD3	NM_001265817	ALB	NM_001195649	PI16	NM_001266318	MOXD1	NM_001265792	GGH	NM_001260712
CYP2B6	NM_001040212	DCK	NM_001257554	CCDC167	NM_001261613	MED23	NM_001261479	PDE7A	NM_001266863
MIA	NM_001261282	IGJ	NM_001260886	GLO1	NM_001261764	C4H6orf58	NM_001194318	ARFGF1	NM_001261046
EGLN2	NM_001261091	SULT1B1	NM_001193512	CKNK17	NM_001194723	CENPW	NM_001193377	RDH10	NM_001266830
B9D2	NM_001261075	UGT2A3	NM_001194387	TFEB	NM_001266320	HEY2	NM_001194380	UBE2W	NM_001266510
GSK3A	NM_001266636	STAP1	NM_001194445	PTCRA	NM_001193837	CLVS2	NM_001194395	PI15	NM_001193804
PAFAH1B3	NM_001257280	LPHN3	NM_001261704	GTPBP2	NM_001266862	GJA1	NM_001261067	PKTA	NM_001193422
PRR19	NM_001194317	POLR2B	NM_001261497	MRPS18A	NM_001257635	ASF1A	NM_001194486	IL7	NM_001032846
ZNF428	NM_001270769	SRP72	NM_001260722	SLC29A1	NM_001257896	PLN	NM_001190894	STMN2	NM_001265775
C19orf61	NM_001194356	PPAT	NM_001260819	SUPT3H	NM_001266569	SLC35F1	NM_001266534	MRPS28	NM_001261089
PVR	NM_001043386	EXOC1	NM_001261145	ENPP4	NM_001266236	NUS1	NM_001194492	TPD52	NM_001266142
GEMIN7	NM_001194715	SRD5A3	NM_001257949	CD2AP	NM_001266309	FAM162B	NM_001194873	ZNF704	NM_001260976
OPA3	NM_001258146	KIT	NM_001266095	MUT	NM_001261561	RWDD1	NM_001266855	PMP2	NM_001266305
SNRPD2	NM_001193592	CHIC2	NM_001257545	RHAG	NM_001032815	COL10A1	NM_001194546	CHMP4C	NM_001193985
PPP5C	NM_001266086	USP46	NM_001266963	DEFB114	NM_001193390	NT5DC1	NM_001261622	RALYL	NM_001260167
AP2S1	NM_001261143	MAPK10	NM_001260857	IL17F	NM_001261287	HS3ST5	NM_001193687	CA2	NM_001195417
EMP3	NM_001194829	PPM1K	NM_001266195	TRAM2	NM_001260535	C4H6orf225	NM_001193364	DCAF4L2	NM_001198702
CYTH2	NM_001260891	NAP1L5	NM_001266934	GSTA4	NM_001258102	TRAF3IP2	NM_001266136	NBN	NM_001265739
RPL13A	NM_001195419	HPGDS	NM_001194212	FBXO9	NM_001160298	SLC16A10	NM_001260620	LOC696190	NM_001261304
IZUMO2	NM_001194696	BMPR1B	NM_001266263	GCLC	NM_001261107	RPF2	NM_001258154	LRRRC69	NM_001193750
LRRRC4B	NM_001266779	TSPAN5	NM_001194290	LRRC1	NM_001266506	C6orf186	NM_001193830	TRIQK	NM_001265814
SIGLEC1	NM_001194706	E1F4E	NM_001266219	FAM83B	NM_001194454	CDC40	NM_001261343	FAM92A1	NM_001265930
ZNF175	NM_001261030	METAP1	NM_001261513	BEND6	NM_001257859	FIG4	NM_001172433	TP53INP1	NM_001265680
PPP2R1A	NM_001257922	MAPKSP1	NM_001257535	PRIM2	NM_001266600	SMPD2	NM_001266860	PLEKHF2	NM_001193870
PRPF31	NM_001266103	DDIT4L	NM_001194403	UBE2E3	NM_001257571	CEP57L1	NM_001193486	C8H8orf37	NM_001193893
RPS9	NM_001265659	PPP3CA	NM_001261563	LMBRD1	NM_001194516	SNX3	NM_001257953	PTDSS1	NM_001257822
FCAR	NM_001039950	NFKB1	NM_001266053	C4H6orf57	NM_001194396	NR2E1	NM_001265967	SDC2	NM_001260964
NLRP7	NM_001114354	UBE2D3	NM_001261204	KCNQ5	NM_001265828	OSTM1	NM_001261748	FAM188A	NM_001193862
COX6B2	NM_001193383	TACR3	NM_001037862	SLC17A5	NM_001260632	SOD2	NM_001032805	C1QL3	NM_001265799
UBE2S	NM_001266004	INTS12	NM_001260673	MYO6	NM_001104536	WTAP	NM_001260846	PTPLA	NM_001193912
ZNF581	NM_001194834	SGMS2	NM_001193740	IRAK1BP1	NM_001194610	PACRG	NM_001266357	ANL5B	NM_001193479
NLRP11	NM_001114109	HADH	NM_001261209	LCA5	NM_001266344	BRP44L	NM_001260570	DNAJC1	NM_001261677
NLRP8	NM_001114115	PLA2G12A	NM_001194877	ELOVL4	NM_001040419	RNASET2	NM_001266725	COMMD3	NM_001195447
ESP16.9	NM_001171845	ENPEP	NM_001266656	TPBG	NM_001193701	CCR6	NM_001032935	THNSL1	NM_001266425
ZNF805	NM_001194103	NEUROG2	NM_001193972	PRSS35	NM_001048244	PSMB1	NM_001260636	GAD2	NM_001265854
ZNF304	NM_001261557	NDST3	NM_001266899	CYB5R4	NM_001193767	GPR78	NM_001193900	ARHGAP12	NM_001260799
ZNF671	NM_001260628	METTL14	NM_001261720	SNX14	NM_001257900	GRPEL1	NM_001261551	NRP1	NM_001265816
ZSCAN1	NM_001190963	NDNF	NM_001193470	SYNCRIP	NM_001193845	KIAA0232	NM_001193917	CUL2	NM_001257552
ZBTB45	NM_001266696	TMEM155	NM_001194154	POLR1D	NM_001257459	MRFAP1L1	NM_001193928	CCNY	NM_001257490
CHMP2A	NM_001194122	IL21	NM_001194242	SLC35A1	NM_001266759	MRFAP1	NM_001193938	CSGALNACT2	NM_001172170
GBE1	NM_001266287	SPRY1	NM_001194270	CNR1	NM_001032825	JAKMIP1	NM_001257961	HNRNPF	NM_001261015
CHMP2B	NM_001266802	ANKRD50	NM_001266441	PNRC1	NM_001266366	CYTL1	NM_001194003	ZNF32	NM_001260922
POU1F1	NM_001042860	HERC4	NM_001257578	ANKRD6	NM_001261717	ZNF518B	NM_001261812	CXCL12	NM_001032934
CGGBP1	NM_001261776	LRRTM3	NM_001266575	SPAG11B	NM_001110257	MTDH	NM_001266369	DRGX	NM_001194598
PROS1	NM_001044726	REEP3	NM_001261663	CTSB	NM_001194899	STK3	NM_001260967	C10orf72	NM_001194390
ARL6	NM_001257760	NRBF2	NM_001261731	DFDT1	NM_001260724	OSR2	NM_001267000	SNCG	NM_001266560
MINA	NM_001261709	ADO	NM_001261626	TNKS	NM_001261281	ANKRD46	NM_001266498	BMPR1A	NM_001260593
GPR15	NM_001042647	ZNF365	NM_001257568	TUSC3	NM_001266279	PABPC1	NM_001257897	GRID1	NM_001257667
CMSS1	NM_001193902	C9H10orf107	NM_001194905	CSGALNACT1	NM_001261473	NCALD	NM_001257764	TMEM254	NM_001266368
TOMM70A	NM_001266153	RHOBTB1	NM_001266985	FGF17	NM_001194186	KLF10	NM_001266477	PP1F	NM_001266124
TMEM45A	NM_001266028	CDK1	NM_001261470	NUDT18	NM_001190895	BALC	NM_001266643	RPS24	NM_001261027
FAM55C	NM_001194109	UBE2D1	NM_001257863	REEP4	NM_001266282	SLC25A32	NM_001266738	KCNMA1	NM_001032810
ALCAM	NM_001257702	MBL2	NM_001105535	KIAA1967	NM_001194900	LRP12	NM_001261683	VDAC2	NM_001257424
CD47	NM_001266517	CSTF2T	NM_001266798	PEBP4	NM_001190951	ANGPT1	NM_001266116	CHCHD1	NM_001258084
IFT57	NM_001258196	SGMS1	NM_001257652	NKX3-1	NM_001266223	EMC2	NM_001257604	ANAPC16	NM_001257658
ABHD10	NM_001261502	PTEN	NM_001260965	NEFL	NM_001265845	SYBU	NM_001265668	C9H10orf54	NM_001190878
CD200	NM_001257544	GNRH1	NM_001261017	GNRH1	NM_001194536	UTP23	NM_001193908	LRRC20	NM_001194412
ATP6V1A	NM_001260658	FAS	NM_001032933	BNIP3L	NM_001037284	MED30	NM_001266097	H2AFY2	NM_001266414
HS3ST1	NM_001194098	PPP1R3C	NM_001257737	ADRA1A	NM_001114733	EXT1	NM_001258133	TSPAN15	NM_001266979
RAB28	NM_001265724	TNKS2	NM_001266258	TRIM35	NM_001257556	NOV	NM_001266896	SRGN	NM_001261094
NKX3-2	NM_001194111	CYP26A1	NM_001193915	CCDC25	NM_001266572	TAZF	NM_001266380	CNOT6L	NM_001261293
CD38	NM_001261773	LGI1	NM_001261057	PNOC	NM_001261798	MRPL13	NM_001258083	RGS10	NM_001261654
PROM1	NM_001077420	HELLS	NM_001261757	FZD3	NM_001261141	DERL1	NM_001257937	FAM110B	NM_001193942
LDB2	NM_001265886	CYP2C76	NM_001177788	LEPROTL1	NM_001266983	FBXO32	NM_001257729	ACBD7	NM_001258175
LAP3	NM_001260698	DNTT	NM_001266694	GTF2E2	NM_001260927	RNF139	NM_001261771	ATG4A	NM_001261491
LCORL	NM_001172360	PIK3AP1	NM_001266956	MAK16	NM_001260675	TRIB1	NM_001193695	NXT2	NM_001265707
DHX15	NM_001260731	UBTD1	NM_001194274	RNF122	NM_001266604	MYC	NM_001142873	RGAG1	NM_001190875
SOD3	NM_001194332	AVP11	NM_001266977	DUSP26	NM_001257818	FAM49B	NM_001261694	CHRDL1	NM_001257873
ANAPC4	NM_001266920	GOLGA7B	NM_001260720	ERLIN2	NM_001257541	ST3GAL1	NM_001261634	LHFPL1	NM_001265846
TBC1D19	NM_001260783	NDUFB8	NM_001265766	FGFR1	NM_001266647	CHRAC1	NM_001266669	HNRNPH2	NM_001193993
C5H4orf19	NM_001257674	C9H10orf2	NM_001194441	TM2D2	NM_001260764	PTP4A3	NM_001193694	PLS3	NM_001266221
TBC1D1	NM_001258065	LBX1	NM_001194466	SFRP1	NM_001261734	LYNX1	NM_001266622	WDR44	NM_001266328
KLF3	NM_001261280	ELOVL3	NM_001194552	GOLGA7	NM_001194104	GPIHBP1	NM_001266526	ZCCHC12	NM_001261787
TLR10	NM_001130434	ACTR1A	NM_001257775	GINS4	NM_001261222	TSTA3	NM_001261649	PGRMC1	NM_001194918
WDR19	NM_001266872	SFXN2	NM_001261167	IKBKKB	NM_001265946	LRRC14	NM_001260995	ZBTB33	NM_001266950
RHOH	NM_001260809	C9H10orf32	NM_001194906	SLC20A2	NM_001266611	ZNF7	NM_001266571	LAMP2	NM_001260808
TMEM33	NM_001261135	NT5C2	NM_001257875	THAP1	NM_001257879	ZNF250	NM_001267795	C1GALT1C1	NM_001260840
ATP8A1	NM_001265879	OBFC1	NM_001266590	MCM4	NM_001266203	ZMYND11	NM_001261702	SH2D1A	NM_001032837
GRXCR1	NM_001194126	GSTO1	NM_001260555	UBE2V2	NM_001266843	LARP4B	NM_001260689	CXHorf64	NM_001193842
GNPDA2	NM_001194875	XPNPEP1	NM_001266962	EFCAB1	NM_001194172	WDR37	NM_001260851	OCLR	NM_001265789
GABRA2	NM_001261668	MXI1	NM_001261031	SNAI2	NM_001260982	AKR1E2	NM_001194235	SASH3	NM_001261510
COMMD8	NM_001260885	PDCD4	NM_001257846	PCMTD1	NM_001260718	IL2RA	NM_001032917	CXHorf57	NM_001193976
SLAIN2	NM_001266145	SHOC2	NM_001257588	FAM150A	NM_001194437	PRKCQ	NM_001261312	MORC4	NM_001266454
OClAD2	NM_001266991	GPAM	NM_001266771	RB1CC1	NM_001266144	KIN	NM_001261813	TSC2D23	NM_001266233

Supplemental Table 1: (*i_r*) H3K4me3-enriched genes in the Baboon SVZ NSC population

Gene Name	RefSeq ID	Gene Name	RefSeq ID	Gene Name	RefSeq ID	Gene Name	RefSeq ID	Gene Name	RefSeq ID
SCD5	NM_001193798	AFAP1L2	NM_001261664	NPBWR1	NM_001194227	USP6NL	NM_001257435	PCYT1B	NM_001258192
HNRPDL	NM_001260709	CCDC172	NM_001193986	TCEA1	NM_001260708	CCDC3	NM_001193755	CCAF8L2	NM_001266964
GK2	NM_001193898	EMX2	NM_001266139	SDR16C5	NM_001260736	PRPF18	NM_001260784	MAGEB10	NM_001193982
PAQR3	NM_001257693	CACUL1	NM_001266943	IMPAD1	NM_001257950	DCLRE1C	NM_001204350	KLHL15	NM_001257612
HELT	NM_001193735	C6H5orf30	NM_001194882	CLK4	NM_001257694	SV2B	NM_001260629	KIAA1737	NM_001265895
SLC25A4	NM_001258165	NUDT12	NM_001194123	MGAT4B	NM_001266822	SLCO3A1	NM_001261477	POMT2	NM_001260626
PDLIM3	NM_001266700	EFNA5	NM_001265728	SQSTM1	NM_001266358	RGMA	NM_001266917	ADCK1	NM_001266902
CYP4V2	NM_001193735	SLC25A46	NM_001266009	RASGEF1C	NM_001194225	IGF1R	NM_001261352	DIO2	NM_001159294
FRG1	NM_001261228	STARD4	NM_001260934	OR2Y1	NM_001194368	TTC23	NM_001266031	TSHR	NM_001195395
SLC6A3	NM_001032826	NREP	NM_001193355	MGAT1	NM_001257830	MEF2A	NM_001260914	GTF2A1	NM_001257710
CCDC127	NM_001194083	DCP2	NM_001266464	NDN	NM_001172102	ASB7	NM_001266289	FLRT2	NM_001266473
MED10	NM_001260853	TSSK1B	NM_001193468	SNRPN	NM_001261205	OR4K13	NM_001193841	GALC	NM_001044262
PAPD7	NM_001261299	TRIM36	NM_001266479	GABRB3	NM_001260702	OR4K2	NM_001193863	KCNK10	NM_001261558
ADCY2	NM_001265652	FEM1C	NM_001266537	NDNL2	NM_001257507	PARP2	NM_001257438	TTC8	NM_001260880
C6H5orf49	NM_001193716	TMED7	NM_001204339	CHRNA7	NM_001032883	RNASE4	NM_001261770	TDP1	NM_001257779
SEMA5A	NM_001266494	CCO1	NM_001260608	SCG5	NM_001260672	OR4E2	NM_001194074	KCNK13	NM_001261646
CMBL	NM_001193768	TNFAIP8	NM_001261083	GREM1	NM_001032848	DAD1	NM_001194131	PSMC1	NM_001266333
DAP	NM_001257566	SRFBP1	NM_001266668	EMC4	NM_001260989	MRPL52	NM_001265996	NRDE2	NM_001193888
FAM105A	NM_001193791	CSNK1G3	NM_001258050	ZNF770	NM_001261541	PSMB11	NM_001266866	FBLN5	NM_001260534
FAM105B	NM_001193800	GRAMD3	NM_001265990	ATPBD4	NM_001266595	SLC22A17	NM_001265660	CPSF2	NM_001257580
ANKH	NM_001261260	MARCH3	NM_001266413	GPR176	NM_001266154	JPH4	NM_001261095	GOLGA5	NM_001257502
FBXL7	NM_001266740	C6H5orf63	NM_001257797	PLCB2	NM_001267026	PCK2	NM_001265937	C7H14orf142	NM_001193961
ZNF622	NM_001260691	CTXN3	NM_001193387	C7H15orf57	NM_001194072	TM9SF1	NM_001266461	KIAA1409	NM_001194012
FAM134B	NM_001261775	SLC12A2	NM_001261785	VPS18	NM_001257653	CMA1	NM_001194633	SERPINA5	NM_001044733
DROSHA	NM_001261157	KIAA1024L	NM_001194061	PLA2G4B	NM_001204226	STXBP6	NM_001260925	DICER1	NM_001257872
C6H5orf22	NM_001193783	CDC42SE2	NM_001257601	CDAN1	NM_001194310	NOVA1	NM_001261800	GLRX5	NM_001265635
MTMR12	NM_001266986	IL3	NM_001101734	HYPK	NM_001194889	G2E3	NM_001194652	GSKIP	NM_001194191
TOMM40	NM_001260795	IRF1	NM_001266397	MFAP1	NM_001266342	DTD2	NM_001194671	VRK1	NM_001257676
RAD1	NM_001261160	IL13	NM_001032929	CTDSP2	NM_001266809	ARHGAP5	NM_001198663	C7H14orf177	NM_001194226
BRIX1	NM_001261247	LEAP2	NM_001114110	DUOXA2	NM_001194505	EGLN3	NM_001194425	SETD3	NM_001260871
LMBRD2	NM_001266468	SKP1	NM_001193590	MYEF2	NM_001261256	CFL2	NM_001261184	DIO3	NM_001122649
SLC1A3	NM_001266066	UBE2B	NM_001194433	EID1	NM_001265838	SRP54	NM_001260852	HSP90AA1	NM_001195667
PTGER4	NM_001266046	LECT2	NM_001194884	SECISBP2L	NM_001258064	INSM2	NM_001198728	TRMT61A	NM_001257540
ITTC3	NM_001261196	SPOCK1	NM_001266535	COPS2	NM_001193601	PAX9	NM_001040417	C7H14orf79	NM_001193779
PLCXD3	NM_001260577	FAM13B	NM_001260948	FGF7	NM_001194613	SLC25A21	NM_001265644	CRIP1	NM_001266846
C6H5orf51	NM_001193823	LRRTM2	NM_001266604	DTWD1	NM_001260730	SEC23A	NM_001261363	C6H8orf42	NM_001265984
SEPP1	NM_001159409	MATR3	NM_001205238	USP8	NM_001265619	TRAPPC6B	NM_001261238	CLN8	NM_001194050
NIM1	NM_001266646	MZB1	NM_001260618	TNFAIP8L3	NM_001193689	C7H14orf28	NM_001190833	AGPAT5	NM_001257833
NROB1	NM_001195285	RAB33A	NM_001257646	HSD17B10	NM_001261171	TAZ	NM_001032914	P2RY10	NM_001258158
CXHorf21	NM_001194018	RBMX2	NM_001266848	MAGED2	NM_001257614	G6PD	NM_001266470	JTM2A	NM_001194217
FTHL17	NM_001194051	MST4	NM_001261722	FAM104B	NM_001261522	H2AFB3	NM_001193914	FAM46D	NM_001194232
TMEM47	NM_001266555	GPC4	NM_001265741	MAGEH1	NM_001260625	MTCP1NB	NM_001260781	SH3BGR	NM_001266350
PRRG1	NM_001261082	CCDC160	NM_001194097	RRAGB	NM_001257444	MTCP1	NM_001194094	POU3F4	NM_001194259
DYNLT3	NM_001266527	PLAC1	NM_001194091	SPIN3	NM_001260981	RAB39B	NM_001261511	TGIF2LX	NM_001032888
TSPAN7	NM_001261716	FAM127A	NM_001194127	ZC4H2	NM_001261736	CLIC2	NM_001266882	NAP1L3	NM_001265658
MID1IP1	NM_001257645	BRS3	NM_001032902	MSN	NM_001257696	VAMP7	NM_001261784	PCDH19	NM_001265688
ATP6AP2	NM_001257625	CD40LG	NM_001032839	EDA2R	NM_001193467	PPAPDC1A	NM_001266703	DRP2	NM_001266215
CASK	NM_001261010	F9	NM_001109683	AR	NM_001032911	WDR11	NM_001266829	ARMCX3	NM_001257722
NDP	NM_001266972	SOX3	NM_001193752	OPHN1	NM_001261353	HTRA1	NM_001258176	ARMCX2	NM_001194042
FUNDC1	NM_001266574	LDOC1	NM_001260647	EFNB1	NM_001261375	C9H10orf120	NM_001194246	ARMCX5	NM_001194914
DUSP21	NM_001265675	SLITRK2	NM_001261220	OTUD6A	NM_001193698	ACADSB	NM_001261772	TMEM31	NM_001194917
ZNF673	NM_001266019	TMEM185A	NM_001257432	DLG3	NM_001194912	BUB3	NM_001266253	PLP1	NM_001260539
CHST7	NM_001265790	MTM1	NM_001261718	SNX12	NM_001193757	GPR26	NM_001265705	FAM199X	NM_001193933
RGN	NM_001266311	CD99L2	NM_001261370	NONO	NM_001194913	FAM53B	NM_001193710	PNPLA4	NM_001193844
TIMP1	NM_001032939	FATE1	NM_001261152	CXCR3	NM_001145040	FAM196A	NM_001193840	AMELX	NM_001098513
TBC1D25	NM_001266296	NSDHL	NM_001265710	CITED1	NM_001266177	MGMT	NM_001257605	TLR7	NM_001130426
PIM2	NM_001265848	DUSP9	NM_001265730	PHKA1	NM_001261198	C9H10orf93	NM_001190957	GEMIN8	NM_001257640
PLP2	NM_001265866	SLC6A8	NM_001266276	RLIM	NM_001266839	MTG1	NM_001190917	GLRA2	NM_001266926
FOXP3	NM_001032918	L1CAM	NM_001261779	CXHorf26	NM_001194106	PRKX	NM_001258204	ASB11	NM_001194155
MAGED4B	NM_001266405	MECP2	NM_001257542	FGF16	NM_001194115	NLGN4Y	NM_001145058	AP1S2	NM_001194910
RBBP7	NM_001261191	SCML2	NM_001261359	EIF1AX	NM_001261777	SAT1	NM_001257662	PRDX4	NM_001193811
SCML1	NM_001114112	RS1	NM_001194911	DRD1	NM_001206975	PDE8A	NM_001266644	MLH3	NM_001257783
SPATA4	NM_001035527	LIX1	NM_001194032	SFXN1	NM_001260606	SEC11A	NM_001261576	NEK9	NM_001265631
SPCS3	NM_001194879	RIOK2	NM_001260597	HRH2	NM_001198697	KLHL25	NM_001258115	FOS	NM_001098399
ODZ3	NM_001193929	RGMB	NM_001265620	TSPAN17	NM_001261528	NTRK3	NM_001265637	C7H14orf1	NM_001194135
DCTD	NM_001260610	FAM174A	NM_001194071	FAM193B	NM_001194019	ABHD2	NM_001261263	TGFB3	NM_001257475
CLDN24	NM_001194880	ST8SIA4	NM_001266232	AGXT2L2	NM_001260930	GDPGP1	NM_001194046	VASH1	NM_001261805
STOX2	NM_001266165	GIN1	NM_001194084						

Supplemental Table 1: (ii_a) H3K4me3-enriched genes in the Baboon SVZ NB population

Gene Name	RefSeq ID	Gene Name	RefSeq ID	Gene Name	RefSeq ID	Gene Name	RefSeq ID	Gene Name	RefSeq ID
HMX1	NM_001172429	PIANP	NM_001194405	HNM7	NM_001195823	WSB1	NM_001261284	ARL6IP5	NM_001257759
PCGF3	NM_001258171	SLC2A3	NM_001261533	INSIG2	NM_001194781	KIAA0100	NM_001194408	SUCLG2	NM_001261121
VWA1	NM_001260638	TAS2R13	NM_001080767	TSN	NM_001266679	GOSR1	NM_001257945	RPP14	NM_001266712
SSU72	NM_001261547	TAS2R46	NM_001080757	MZT2B	NM_001193944	CCL4L1	NM_001032873	TEX264	NM_001261993
TPRG1L	NM_001260515	FAR2	NM_001265709	IMP4	NM_001266231	CCL11	NM_001032874	SNRK	NM_001257661
PHF13	NM_001260753	METTL20	NM_001193718	CFC1	NM_001190851	MRPL10	NM_001260951	LYZL4	NM_001194683
DFFA	NM_001260683	CNTN1	NM_001261751	CARS	NM_001266326	VMP1	NM_001190897	RPSA	NM_001195480
EFHD2	NM_001265711	TMEM117	NM_001261543	CFL1	NM_001266605	HNF1B	NM_001194548	CSRNP1	NM_001258149
SH2D5	NM_001266317	SLC38A1	NM_001266098	EHD1	NM_001261195	KRTAP4-1	NM_001193889	DCUN1D1	NM_001257454
TRIM63	NM_001260704	SLC38A2	NM_001257811	MACROD1	NM_001194685	TMEM106A	NM_001194813	DNAJC19	NM_001266267
SMAP2	NM_001266730	PRKAG1	NM_001266032	C14H11orf84	NM_001194689	CYTH1	NM_001261797	NDUFB5	NM_001266533
FOXJ3	NM_001266996	TMBIM6	NM_001195449	SDHAF2	NM_001193692	PYCR1	NM_001265983	SEC62	NM_001195502
BEND5	NM_001266827	TFCP2	NM_001266217	OR5AN1	NM_001193824	MRP63	NM_001193743	PDCD10	NM_001266410
JUN	NM_001265850	SLC4A8	NM_001258188	OR10Q1	NM_001193880	PSPC1	NM_001257902	SPTSSB	NM_001193354
NEGR1	NM_001261637	EIF4B	NM_001195808	TIMM10	NM_001261523	PROXONB	NM_001194734	SCHIP1	NM_001265718
PRKACB	NM_001260959	MAP3K12	NM_001260812	OR4B1	NM_001194287	SLC7A1	NM_001266615	GMPS	NM_001261203
ZNHIT6	NM_001266313	OR6C4	NM_001194490	NDUFS3	NM_001194303	STARD13	NM_001261243	TM4SF18	NM_001261318
LMO4	NM_001257841	WIBG	NM_001257874	SLC35C1	NM_001258150	HTR2A	NM_001032966	GK5	NM_001261112
ZCRB1	NM_001195521	STAC3	NM_001194695	TSPAN18	NM_001266877	OR5L1	NM_001194579	ACPL2	NM_001171842
TMED5	NM_001266841	TBK1	NM_001261193	ACCS	NM_001260528	PCDH17	NM_001265711	FAIM	NM_001266110
CNN3	NM_001261809	MDM2	NM_001266402	API5	NM_001257933	PCDH9	NM_001258186	SOX14	NM_001194657
CCDC76	NM_001266714	TPH2	NM_001039946	TRIM44	NM_001260523	FBXL3	NM_001261635	IL2ORB	NM_001194658
PTPN22	NM_001261076	PPFIA2	NM_001266465	ANO3	NM_001265904	SOX21	NM_001193732	SATB1	NM_001265648
NOTCH2	NM_001260662	DDT	NM_001257668	SVIP	NM_001261697	DNAJC3	NM_001266404	RAB5A	NM_001261148
SEC22B	NM_001261329	TMCC1	NM_001261150	BTBD10	NM_001265857	STK24	NM_001266859	UBE2E2	NM_001193865
GPR89B	NM_001257436	TMPO	NM_001261527	SWAP70	NM_001172414	UBAC2	NM_001171176	TGFBF2	NM_001261151
TXNIP	NM_001257935	SLC25A3	NM_001257587	RIC3	NM_001261177	TEX30	NM_001266631	CMTM7	NM_001260694
BOLA1	NM_001257561	SCYL2	NM_001266890	OR10A6	NM_001194102	ARGLU1	NM_001194022	UBP1	NM_001266788
SF3B4	NM_001261232	SART3	NM_001257555	OR2D3	NM_001194381	PSMG2	NM_001193620	EIF4A2	NM_001195661
ILF2	NM_001266173	GIT2	NM_001266994	OR52W1	NM_001194213	NDC80	NM_001265902	DECR2	NM_001204462
HAX1	NM_001266445	MAPKAPK5	NM_001257850	TRIM22	NM_001113359	SNRPD1	NM_001260829	FAHD1	NM_001260690
THBS3	NM_001260514	RFC5	NM_001261662	FOLR1	NM_001194647	IMPACT	NM_001266605	ZNF200	NM_001261221
RIT1	NM_001261801	HSPB8	NM_001032937	FCHSD2	NM_001265957	CHST9	NM_001261472	FAM86A	NM_001194839
LMNA	NM_001257893	RPLP0	NM_001195428	RAB6A	NM_001261303	TTR	NM_001261679	TMEM114	NM_001194176
FCGR2A	NM_001257300	FAM101A	NM_001194211	PAAF1	NM_001265839	B4GALT6	NM_001257591	EMP2	NM_001265948
FCGR2B	NM_001257302	PXMP2	NM_001261587	ACER3	NM_001266753	RIT2	NM_001257707	ZC3H7A	NM_001257840
UAP1	NM_001266909	SPOPL	NM_001266382	NDUFC2	NM_001266174	ST8SIA5	NM_001083950	BFAR	NM_001260924
RNF187	NM_001164330	ARL6IP6	NM_001260607	FAM181B	NM_001194034	CXXC1	NM_001266605	CDR2	NM_001260929
C1H1orf35	NM_001265942	GCA	NM_001266140	CCDC90B	NM_001260811	RNF152	NM_001193834	LCMT1	NM_001260979
ARF1	NM_001193287	CSRNP3	NM_001257746	TMEM126B	NM_001267027	CDH7	NM_001193994	TUFM	NM_001266084
TLR5	NM_001130429	GORASP2	NM_001261707	CTSC	NM_001195651	CNDP2	NM_001257758	C20H1orf54	NM_001194257
MOSC2	NM_001257477	COL3A1	NM_001266039	CHORDC1	NM_001257756	PQLC1	NM_001265722	C20H1orf58	NM_001194596
LYPLAL1	NM_001266865	NAB1	NM_001257641	C14H11orf75	NM_001193371	TXNL4A	NM_001260866	ARL2BP	NM_001267028
LOC100499547	NM_001195508	SDPR	NM_001265645	DCUN1D5	NM_001260996	GN7G	NM_001193395	GINS3	NM_001260655
CSR1P	NM_001257285	SLC39A10	NM_001260918	AMICA1	NM_001261678	VMAC	NM_001193782	CBFB	NM_001266558
NEK7	NM_001258200	MOBK13	NM_001257738	SC5DL	NM_001257517	DHPS	NM_001266677	CYB5B	NM_001194167
RG2	NM_001265925	BMPR2	NM_001260859	HSPA8	NM_001261657	IER2	NM_001266014	PSMD7	NM_001257814
C1H1orf27	NM_001260697	EEF1B2	NM_001266385	VPS26B	NM_001257745	CYP4F22	NM_001194539	DHX38	NM_001257881
TRMT1L	NM_001260768	GPR1	NM_001047129	C15H9orf172	NM_001193965	CYP4F12	NM_001194560	ST3GAL2	NM_001266341
RG5	NM_001260517	LANCL1	NM_001258121	LCN9	NM_001171841	OCEL1	NM_001194959	ADAT1	NM_001194845
ASTN1	NM_001266732	CNPPD1	NM_001194773	SURF6	NM_001194177	LPAR2	NM_001266718	KARS	NM_001257593
PGBD2	NM_001258110	SCG2	NM_001194420	UCK1	NM_001194319	PLEKHF1	NM_001193737	NUDT7	NM_001194315
COX20	NM_001257785	KIAA1486	NM_001194144	C15H9orf78	NM_001267022	LRP3	NM_001260541	SDR42E1	NM_001194527
AKT3	NM_001266640	PSMD1	NM_001257805	OR1Q1	NM_001193814	LSM14A	NM_001257954	MPHOSPH6	NM_001193603
GREM2	NM_001266108	NPPC	NM_001194397	DBC1	NM_001260978	SCN1B	NM_001258167	FOXC2	NM_001198708
CHRM3	NM_001257740	MYT1L	NM_001265731	SLC31A1	NM_001257506	COX7AH	NM_001040278	DPEP1	NM_001260742
TBCE	NM_001265678	ROCK2	NM_001260913	LPAR1	NM_001260860	ZNF790	NM_001261671	IFNAR1	NM_001266513
RHOJ	NM_001265717	RHOB	NM_001194776	TXN	NM_001042732	ZNF345	NM_001194827	ATP5J	NM_001257938
SPATA2	NM_001260963	PREB	NM_001266941	FAM206A	NM_001260843	SPINT2	NM_001194343	C3H21orf91	NM_001194344
ELMO2	NM_001266903	SUPT7L	NM_001260750	OR13C8	NM_001194361	ACTN4	NM_001261802	HSPA13	NM_001193708
VSTM2L	NM_001260601	PPP1CB	NM_001260652	TMOD1	NM_001265684	HNRNPL	NM_001266000	ABCC13	NM_001032930
RBM12	NM_001032840	YIPF4	NM_001257440	TRMT10B	NM_001257537	NFKB1B	NM_001258157	FAM20C	NM_001193713
SNTA1	NM_001266239	RASGRP3	NM_001261700	MTAP	NM_001261737	AKT2	NM_001265989	PAPOLB	NM_001194858
TM9SF4	NM_001260631	SLC8A1	NM_001032861	SNAPC3	NM_001260804	RABAC1	NM_001260923	ACTB	NM_001033084
NSFL1C	NM_001266663	KCNKG3	NM_001261485	RANBP6	NM_001194574	PRR19	NM_001194317	KDEL2	NM_001260765
TRMT6	NM_001261660	RTN4	NM_001205127	CDC37L1	NM_001257827	IRGQ	NM_001265865	BR13	NM_001266634
PLCB1	NM_001257867	PEX13	NM_001258170	KLF9	NM_001265918	C19orf61	NM_001194356	PDAP1	NM_001266283
FLRT3	NM_001265872	XPO1	NM_001266844	NTRK2	NM_001261297	PVR	NM_001043386	ACHE	NM_001128088
DSTN	NM_001195492	AFTPH	NM_001257727	NAA35	NM_001194389	FOXA3	NM_001194519	RABL5	NM_001194410
TMEM90B	NM_001194092	SERTAD2	NM_001261684	RPL12	NM_001193560	NAPA	NM_001194588	TMEM248	NM_001193777
NANP	NM_001266157	WDR92	NM_001261137	ANGPTL2	NM_001109811	BAX	NM_001261016	TPST1	NM_001257855
CECR5	NM_001194230	TIA1	NM_001261758	HSPA5	NM_001266596	LIN7B	NM_001194649	VKORC1L1	NM_001266931
TOP3B	NM_001266407	FAM136A	NM_001267012	OGN	NM_001261240	PPP2R1A	NM_001257922	CHCHD2	NM_001198739
ZNF280B	NM_001261022	SPR	NM_001260549	HSD17B3	NM_001266504	KIR3DL12	NM_001105171	MRPS17	NM_001266196
SNRPD3	NM_001194052	STAMBP	NM_001260604	GLOD4	NM_001265952	LOC100125569	NM_001105176	GRB10	NM_001257428
CRYBB2	NM_001122894	POLE4	NM_001261810	TLCD2	NM_001194730	FCAR	NM_001039950	CD7C	NM_001266610
RASL10A	NM_001260903	REG1B	NM_001194568	KIF1C	NM_001266243	ZNF805	NM_001194103	NUDCD3	NM_001266593
RBFOX2	NM_001261516	LRRTM1	NM_001257467	PLSCR3	NM_001265888	GBE1	NM_001266287	PSMA2	NM_001266881
EIF3D	NM_001257511	RETSAT	NM_001257563	C16H17orf59	NM_001194556	C2H3orf38	NM_001190960	C7orf36	NM_001194130
POLR2F	NM_001265974	ST3GAL5	NM_001257500	STX8	NM_001265754	TOMM70A	NM_001266153	STARD3NL	NM_001266168
GRAP2	NM_001261710	RNF103	NM_001266577	TVP23B	NM_001260706	NAA50	NM_001261371	GGCT	NM_001266969
TSPO	NM_001258111	KCNIP3	NM_001257864	ZNF287	NM_001266709	GTF2E1	NM_001260889	TAX1BP1	NM_001266932
RABL2B	NM_001260670	INPP4A	NM_001261619	TOM1L2	NM_001260762	SETD5	NM_001265978	NUPL2	NM_001266179
C11H12orf4	NM_001194147	LYG1	NM_001194261	B9D1	NM_001266722	CAV3	NM_001194078	SP4	NM_001266828
VWF	NM_001243086	C13H2orf40	NM_001194457	MAP2K3	NM_001265947	CRBN	NM_001195647	BET1	NM_001260728
KLHL28	NM_001261270	ESR2	NM_001265821	GSKIP	NM_001194191	FDFT1	NM_001260724	GINS4	NM_001261222
RPL10L	NM_001194068	GPHN	NM_001257815	TRMT61A	NM_001257540	TNKS	NM_001261281	THAP1	NM_001257879
RPS29	NM_001267537	DCAF4	NM_001258114	CRIP1	NM_001266846	TUSC3	NM_001266279	MCM4	NM_001266203
NGG2	NM_001190910	ELMSAN1	NM_001257926	ZNF596	NM_001266814	NAT2	NM_001044736	SNAI2	NM_001260982
EROL1	NM_001266764	POMT2	NM_001260626	C8H8orf42	NM_001265984	FGF17	NM_001194186	LOC100499551	NM_001195073
FERM2	NM_001266319	GTF2A1	NM_001257710	AGPAT5	NM_001257833	NEFL	NM_001265845	TCEA1	NM_001260708
JKAMP	NM_001260993	TDP1	NM_001257779	SPAG11B	NM_001037282	FZD3	NM_001261141	C8H8orf46	NM_001194901

Supplemental Table 1: (ii_b) H3K4me3-enriched genes in the Baboon SVZ NB population

Gene Name	RefSeq ID	Gene Name	RefSeq ID	Gene Name	RefSeq ID	Gene Name	RefSeq ID	Gene Name	RefSeq ID
SRI	NM_001266216	PPID	NM_001265834	STMN2	NM_001265775	TRMT5	NM_001261618	CPSF2	NM_001257580
KIAA1324L	NM_001194030	C5H4orf43	NM_001266649	MRPS28	NM_001261089	RHOJ	NM_001260613	GOLGA5	NM_001257502
SEMA3C	NM_001260533	CBR4	NM_001193693	FABP5	NM_001260789	ROAD2	NM_001131060	LEPROTL1	NM_001266983
PHTF2	NM_001258132	FBXO8	NM_001265874	RALYL	NM_001201567	CTSB	NM_001194899	ERLIN2	NM_001257541
FGL2	NM_001260674	FRG1	NM_001261228	CA2	NM_001195417	ARFGEF1	NM_001261046	SEC23A	NM_001261363
RINT1	NM_001257819	EXOC3	NM_001260656	DCAF4L2	NM_001198702	PI15	NM_001193804	GRIA2	NM_001185014
IMMP2L	NM_001261314	CCDC127	NM_001194083	NBN	NM_001265739	GUCY1B3	NM_001266845	HECTD1	NM_001261259
TAS2R16	NM_001080759	DAP	NM_001257566	LRRC69	NM_001193750	TRAM1L1	NM_001261483	SV2B	NM_001260629
CALU	NM_001260801	FAM134B	NM_001261775	FAM92A1	NM_001265930	ANKRD50	NM_001266441	SLCO3A1	NM_001261477
BPGM	NM_001266072	LOC100499546	NM_001195043	MTDH	NM_001266369	SLC25A31	NM_001194300	MEF2A	NM_001260914
MTPN	NM_001260744	DROSHA	NM_001261157	OSR2	NM_001267000	MGST2	NM_001261313	ORAQ3	NM_001194892
MRPS33	NM_001266016	BRX1	NM_001261247	LRP12	NM_001261683	ZNF330	NM_001266710	TMEM55B	NM_001194893
C3H7orf33	NM_001194007	LMBRD2	NM_001266468	SYBU	NM_001265668	TMEM184C	NM_001260921	WDR12	NM_001260900
EZH2	NM_001266503	PTGER4	NM_001266046	UTP23	NM_001193908	ARFIP1	NM_001266175	SCFD1	NM_001266523
NCAPG2	NM_001258148	PLCXD3	NM_001260577	MED30	NM_001266097	THOC2	NM_001260621	SILTRK2	NM_001261220
TMEM170B	NM_001261045	SEPP1	NM_001159490	MRPL13	NM_001258083	FAM127A	NM_001194127	CETN2	NM_001195814
RNF144B	NM_001265699	FGF10	NM_001193950	TRIB1	NM_001193695	ARHGEF6	NM_001266573	CLIC2	NM_001266882
ID4	NM_001265656	SNX18	NM_001261750	FAM49B	NM_001261694	LDOC1	NM_001260647	LDHAL6B	NM_001194113
NRSN1	NM_001257709	IL6ST	NM_001265991	ST3GAL1	NM_001261634	HNRNPD	NM_001261634	PTPLAD1	NM_001266546
GMNN	NM_001258199	ELOVL7	NM_001194255	GPIHBP1	NM_001266526	STBD1	NM_001194876	PIAS1	NM_001266301
HIST1H2BH	NM_001193825	HTR1A	NM_001198700	TSTA3	NM_001261649	SUMO2	NM_001198691	HEXA	NM_001261529
TRIM27	NM_001260792	ENC1	NM_001260583	CPSF1	NM_001267793	LPHN3	NM_001261704	PML	NM_001042434
MAMU-A3	NM_001171838	AGGF1	NM_001261037	ZMYND11	NM_001261702	LOC100499503	NM_001194967	SCAMP5	NM_001260562
GNL1	NM_001047139	LHFPL2	NM_001194391	LARP4B	NM_001260689	TMEM165	NM_001266322	SIN3A	NM_001266100
C4H6orf136	NM_001105163	HOMER1	NM_001261570	WDR37	NM_001260851	CHIC2	NM_001257545	IMP3	NM_001261712
TUBB	NM_001032813	RPS23	NM_001193580	AKR1E2	NM_001194235	USP46	NM_001266963	SNX33	NM_001257452
FLOT1	NM_001105168	CCNH	NM_001266446	CDC123	NM_001266654	MAPK10	NM_001260857	STAR5	NM_001260916
MAMU-I	NM_001079671	MEF2C	NM_001266447	DCLRE1C	NM_001204350	TSPAN5	NM_001194290	C7H15orf40	NM_001261261
MAMU-B	NM_001048245	ARRDC3	NM_001260940	PTPLA	NM_001193912	DDIT4L	NM_001194403	PDE8A	NM_001266644
MICB	NM_001114956	FAM172A	NM_001193887	CACNB2	NM_001257782	PPP3CA	NM_001261563	MRPS11	NM_001261578
MAMU-DRB1	NM_001044261	RIOK2	NM_001260597	THNSL1	NM_001266425	INTS12	NM_001260673	NRGN	NM_001266787
MAMU-DMB	NM_001265654	ST8SIA4	NM_001266232	ARHGAP12	NM_001260799	ELOVL6	NM_001266921	MRFAP1	NM_001193938
TAF11	NM_001261556	DCP2	NM_001266464	LOC100499557	NM_001195085	MAGED2	NM_001257614	LYAR	NM_001258141
KCTD20	NM_001257899	TSSK1B	NM_001193468	CSGALNACT2	NM_001172170	SPIN3	NM_001260981	RAB28	NM_001265724
TREML1	NM_001194729	TRIM36	NM_001266479	ZNF22	NM_001261786	ZC4H2	NM_001261736	BTBD19	NM_001260783
CCND3	NM_001265987	DTWD2	NM_001261379	OGDHL	NM_001265802	MSN	NM_001257696	TBC1D1	NM_001258065
RPL7L1	NM_001193633	CSNK1G3	NM_001258050	SNCG	NM_001266560	EDA2R	NM_001193467	RHOH	NM_001260809
CD2AP	NM_001266309	GRAMD3	NM_001265990	FAM190B	NM_001193762	CXHXorf26	NM_001194106	GNPDA2	NM_001194875
IL17F	NM_001261287	FGFR1OP2	NM_001257773	MRPS16	NM_001257904	TGIF2LX	NM_001032888	OClAD2	NM_001266991
TMEM30A	NM_001260817	SAR1B	NM_001261028	ECD	NM_001261188	NAP1L3	NM_001265658	MRPS18C	NM_001266126
MYO6	NM_001104536	CAMLG	NM_001202851	DDX50	NM_001258182	DRP2	NM_001266215	EMC4	NM_001260989
MRAP2	NM_001261086	FAM13B	NM_001260948	CCAR1	NM_001260782	H2BFWT	NM_001193918	ATPBD4	NM_001266595
POLR1D	NM_001257459	LRRTM2	NM_001266604	LRRTM3	NM_001266575	PLS3	NM_001266221	SPRED1	NM_001204360
SLC35A1	NM_001266759	NDFIP1	NM_001194017	REEP3	NM_001261663	LOC100499562	NM_001195093	VPS18	NM_001257653
GJA10	NM_001193951	FGF1	NM_001266029	MBL2	NM_001105535	ZBTB33	NM_001266950	CHP1	NM_001266371
C4H6orf203	NM_001266984	CSNK1A1	NM_001261235	PAPSS2	NM_001266008	C1GALT1C1	NM_001260840	PDIA3	NM_001195716
ZDHHC14	NM_001266260	DCTN4	NM_001260767	CH25H	NM_001198699	AMELX	NM_001098513	CTDSPL2	NM_001266809
OPRM1	NM_001032824	CCDC69	NM_001260862	FRA10AC1	NM_001266720	TMSB4X	NM_001260557	RSL24D1	NM_001258062
GINM1	NM_001193728	C6H5orf4	NM_001257519	POLL	NM_001266906	MAGEB1	NM_001260599	RAB27A	NM_001193855
UST	NM_001257513	MRPL22	NM_001194584	NT5C2	NM_001257875	GPR34	NM_001266567	CCR6	NM_001032935
FBXO30	NM_001261073	THG1L	NM_001194604	GSTO1	NM_001260555	DUSP21	NM_001265675	PSMB1	NM_001260636
PEX3	NM_001257927	GABRG2	NM_001261778	CACUL1	NM_001266943	SERPINB6	NM_001202551	GPR78	NM_001193900
MED23	NM_001261479	MAT2B	NM_001257473	HTRA1	NM_001258176	MAGED4B	NM_001266405	SNRPN	NM_001261205
CENPW	NM_001193377	RARS	NM_001261218	BCCIP	NM_001265671	XAGE5	NM_001193739	GABRB3	NM_001260702
PLN	NM_001190894	ATP6V0E1	NM_001261126	NKX6-2	NM_001266630	HUWE1	NM_001266752	NDNL2	NM_001257507
HS3ST5	NM_001193687	DRD1	NM_001206975	CYP2E1	NM_001040213	MAMU-B18	NM_001114964	PACRG	NM_001266357
SNX3	NM_001257953	ARL10	NM_001266393	APOBEC3A	NM_001246231	COX7A2L	NM_001266821	NDN	NM_001172102
PLG	NM_001043075	B4GALT7	NM_001260676	MAMU-AG	NM_001134230	NLGN4Y	NM_001145058	MRPL41	NM_001258134

Supplemental Table 1: (iii_a) H3K4me3-enriched genes in the Baboon SVZ Total progenitors

Gene Name	RefSeq ID	Gene Name	RefSeq ID	Gene Name	RefSeq ID	Gene Name	RefSeq ID	Gene Name	RefSeq ID
HMX1	NM_001172429	ZNRANB2	NM_001257636	NCSTN	NM_001260780	GNPAT	NM_001265780	NOL12	NM_001193831
ADD1	NM_001261471	NEGR1	NM_001261637	PFDN2	NM_001260521	GALNT2	NM_001261355	RPL3	NM_001193554
MAEA	NM_001258174	FPGT	NM_001204799	DEDD	NM_001257441	RHOU	NM_001265717	SMCR7L	NM_001194095
PCGF3	NM_001258171	TYW3	NM_001257439	B4GALT3	NM_001257845	C10H20orf195	NM_001193505	ATF4	NM_001266632
ISG15	NM_001266806	RABGGTB	NM_001261560	SDHC	NM_001193587	ATP5E	NM_001032901	GRAP2	NM_001261710
VWA1	NM_001260638	ST6GALNAC3	NM_001261629	FCGR2A	NM_001257300	STX16	NM_001257651	ST13	NM_001261322
SSU72	NM_001261547	PIGK	NM_001260944	FCGR2B	NM_001257302	RTFDC1	NM_001193871	EP300	NM_001266486
RER1	NM_001257522	AK5	NM_001266348	UHMK1	NM_001266768	ZFP64	NM_001257633	TEF	NM_001266252
TPRG1L	NM_001260515	PTGFR	NM_001266439	UAP1	NM_001266909	ADNP	NM_001266818	CENPM	NM_001194334
RPL22	NM_001193564	PRKACB	NM_001260959	RNF187	NM_001164330	SPATA2	NM_001260963	C10H22orf32	NM_001194351
PHF13	NM_001260757	RPF1	NM_001261571	TRIM11	NM_001261480	KCNB1	NM_001265653	RRP7A	NM_001194373
VAMP3	NM_001261368	C1H1orf52	NM_001258201	C1H1orf35	NM_001265942	STAU1	NM_001266308	POLDIP3	NM_001190901
ERRF1	NM_001261681	ZNHIT6	NM_001266313	ARF1	NM_001193287	CSE1L	NM_001257815	TSP0	NM_001258111
REER	NM_001265662	CLCA1	NM_001032912	ADCK3	NM_001258190	ELMO2	NM_001266903	CERK	NM_001266852
ENO1	NM_001195611	SH3GLB1	NM_001266360	PSEN2	NM_001261617	WFDC13	NM_001193446	ZBED4	NM_001261128
CTNNBIP1	NM_001260588	SEP15	NM_001159416	PYCR2	NM_001261780	TP53TG5	NM_001194416	RABL2B	NM_001260670
DFFA	NM_001260683	LMO4	NM_001257841	EPHX1	NM_001258087	C10H20orf111	NM_001172172	SLC6A12	NM_001266900
SRM	NM_001257807	ZCRB1	NM_001195521	LBR	NM_001261333	IFT52	NM_001261644	FBXL14	NM_001260522
DHRS3	NM_001260537	LRRRC8D	NM_001266553	CNIH4	NM_001260666	EMILIN3	NM_001193776	LRTM2	NM_001261503
EFHD2	NM_001265791	CDC7	NM_001266610	TIMM8B	NM_001267792	ZHX3	NM_001265777	FKBP4	NM_001261339
ZBTB17	NM_001257470	FAM69A	NM_001266885	TLR5	NM_001130429	ADIG	NM_001193372	TULP3	NM_001266799
FBXO42	NM_001266406	TMED5	NM_001266841	DUSP10	NM_001257695	RPRD1B	NM_001261686	C11H12orf4	NM_001194147
NECAP2	NM_001258172	DR1	NM_001257839	MOSC2	NM_001257477	VSTM2L	NM_001260601	VWF	NM_001243086
EMC1	NM_001261118	CNN3	NM_001261809	LYPLAL1	NM_001266865	CTNBNL1	NM_001261665	MRPL51	NM_001194316
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CELA3B	NM_001195397	EXTL2	NM_001267005	ATF3	NM_001266010	DLGAP4	NM_001266455	MLF2	NM_001266330
PITHD1	NM_001260794	SLC30A7	NM_001266184	DTL	NM_001260630	SCAND1	NM_001190908	PHB2	NM_001266316
SRSF10	NM_001195584	DPH5	NM_001257957	NEK2	NM_001258137	ROMO1	NM_001190916	EMG1	NM_001266361
CLIC4	NM_001261607	OLFM3	NM_001266811	HSD11B1	NM_001195425	RBM12	NM_001032840	SLC2A3	NM_001261533
TMEM50A	NM_001261245	AMY2B	NM_001266186	CD46	NM_001195746	FAM83C	NM_001194151	PHC1	NM_001260906
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CEP85	NM_001257628	SLC25A24	NM_001258085	PKFB2	NM_001265621	EIF2S2	NM_001266866	STYK1	NM_001257594
SFN	NM_001258131	FAM102B	NM_001261603	SLC41A1	NM_001261146	SNTA1	NM_001266239	TAS2R13	NM_001080767
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FGR	NM_001258057	TMEM167B	NM_001261468	TMEM81	NM_001258123	TM9SF4	NM_001260631	LOH12CR1	NM_001261647
IFI6	NM_001048170	PSRC1	NM_001266394	REN	NM_001032916	PDRG1	NM_001265982	CREBL2	NM_001261237
STX12	NM_001265898	PSTMA5	NM_001260609	SNRPE	NM_001266775	BCL2L1	NM_001260717	CDKN1B	NM_001261005
PPP1R8	NM_001266462	GSTM2	NM_001261651	TMEM183A	NM_001266281	RBCK1	NM_001266297	SLCO1B3	NM_001032941
EYA3	NM_001266060	GSTM3	NM_001261580	SYT2	NM_001265809	CSNK2A1	NM_001260877	LDHB	NM_001195809
ATPIF1	NM_001260663	AHCYL1	NM_001258058	GPR37L1	NM_001266071	C20orf46	NM_001194413	CMAS	NM_001257801
SESN2	NM_001261068	SLC16A4	NM_001265727	CAMSAP1L1	NM_001266713	NSFL1C	NM_001266663	LYRM5	NM_001257657
YTHDF2	NM_001265926	LRIF1	NM_001266807	NEK7	NM_001258200	VPS16	NM_001266190	KRAS	NM_001261512
MECR	NM_001261169	WDR77	NM_001195443	ASPM	NM_001104535	GNRH2	NM_001034202	RASSF8	NM_001266170
SNRNP40	NM_001195650	ATP5F1	NM_001260679	CDC73	NM_001260567	FASTKD5	NM_001190877	FGFR1OP2	NM_001257773
PTP4A2	NM_001266129	RAP1A	NM_001261638	RGS2	NM_001265925	MAVS	NM_001042666	MED21	NM_001258120
KPNA6	NM_001266992	CTTNBP2NL	NM_001257547	FAM5C	NM_001261478	PCNA	NM_001266900	PPFIBP1	NM_001265753
S100BPB	NM_001266754	CAPZA1	NM_001261214	C1H1orf27	NM_001260697	C10H20orf196	NM_001260687	MFRS35	NM_001194252
SMIM12	NM_001260616	SLC16A1	NM_001257704	TRMT1L	NM_001260768	TMX4	NM_001260550	FAR2	NM_001265709
ZMYM4	NM_001260875	PTPN22	NM_001261076	EDEM3	NM_001266794	PLCB1	NM_001257867	IPO8	NM_001257497
PSMB2	NM_001257425	OLFM3	NM_001261337	RGL1	NM_001266879	C20orf103	NM_001194698	METTL20	NM_001193718
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MTF1	NM_001257795	ATP1A1	NM_001266673	STX6	NM_001261300	MKS2	NM_001266509	GXYL1	NM_001193857
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SMAP2	NM_001266730	NOTCH2	NM_001260662	RGS5	NM_001260517	PET117	NM_001266528	IRAK4	NM_001136101
RIMS3	NM_001261567	SEC22B	NM_001261329	XRFG	NM_001257610	POLR3F	NM_001260665	TMEM117	NM_001261543
FOXJ3	NM_001266996	GPR89B	NM_001257436	MGST3	NM_001266781	DTD1	NM_001266658	NELL2	NM_001261759
PPIH	NM_001260637	RNF115	NM_001266784	UCK2	NM_001265960	THBD	NM_001266049	SLC38A1	NM_001266098
LEPRE1	NM_001258160	GNRHR2	NM_001032842	MAEL	NM_001260961	NXT1	NM_001194163	SLC38A2	NM_001257811
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ELOVL1	NM_001261559	BOLA1	NM_001257561	XCL1	NM_001032947	APMAP	NM_001266050	C11H12orf68	NM_001194183
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TESK2	NM_001267790	MFRS21	NM_001266914	METTL18	NM_001266262	DGCR14	NM_001194280	PRKAG1	NM_001266032
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GPBP1L1	NM_001261345	GOLPH3L	NM_001257573	FMO2	NM_001042777	SNAP29	NM_001261361	TMBIM6	NM_001195449
IPP	NM_001260743	CDC42SE1	NM_001257482	PIGC	NM_001261250	TOP3B	NM_001266407	COX14	NM_001261469
PIK3R3	NM_001266826	SCNM1	NM_001257712	PRDX6	NM_001266085	ZNF280B	NM_001261022	ATF1	NM_001261536
LURAP1	NM_001266426	PSMD4	NM_001136568	CENPL	NM_001261531	GUCCD1	NM_001260970	SLC11A2	NM_001266689
UQCRH	NM_001198720	MRPL9	NM_001265691	SERPINC1	NM_001104583	SNRPD3	NM_001194052	TFCP2	NM_001266217
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BEND5	NM_001266827	LOC717324	NM_001257530	ASTN1	NM_001266732	TFIP11	NM_001080120	ACVR1B	NM_001265630
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TXNDC12	NM_001266161	SNAPIN	NM_001257650	SH3BP5L	NM_001261606	XBP1	NM_001190861	PRR13	NM_001266483
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CPT2	NM_001265884	TPM3	NM_001257843	SMYD3	NM_001265933	RASL10A	NM_001260903	NFE2	NM_001194758
MAGOH	NM_001257602	HAX1	NM_001266445	COX20	NM_001257785	NF2	NM_001266255	OR6C4	NM_001194490
TMEM59	NM_001266204	CHRN2	NM_001265649	PPPDE1	NM_001257794	ZMAT5	NM_001194345	CD63	NM_001266295
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SSBP3	NM_001261084	THBS3	NM_001260514	GREM2	NM_001266108	SF3A1	NM_001257699	RPS26	NM_001193581
TTC4	NM_001266162	RIT1	NM_001261801	LGALS8	NM_001266745	GAL3ST1	NM_001266653	ESYT1	NM_001194625
PCSK9	NM_001112660	LMNA	NM_001257893	TBCE	NM_001265678	DUSP18	NM_001261330	MYL6	NM_001266736
JUN	NM_001265850	SMG5	NM_001260844	GGPS1	NM_001257690	MORC2	NM_001261599	RNF41	NM_001194648
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JAK1	NM_001257909	IFI16	NM_001261661	KIAA1804	NM_001265676	C10H22orf28	NM_001194558	ATP5B	NM_001195494
LEPR	NM_001032819	TAGLN2	NM_001265900	NTPCR	NM_001267032	TMEM251	NM_001193852	PTGES3	NM_001261514
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LRRRC40	NM_001261023	PEA15	NM_001198667	EXOC8	NM_001258061	EIF3D	NM_001257511	STAC3	NM_001194695

Supplemental Table 1: (iii_b) H3K4me3-enriched genes in the Baboon SVZ Total progenitors

Gene Name	RefSeq ID	Gene Name	RefSeq ID	Gene Name	RefSeq ID	Gene Name	RefSeq ID	Gene Name	RefSeq ID
STOM	NM_001266229	KIF1C	NM_001266243	C1QL1	NM_001194672	THOC1	NM_001260975	PSMC4	NM_001266336
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DBC1	NM_001260978	WSCD1	NM_001257765	GOSR2	NM_001257778	SNRPD1	NM_001260829	ADCK4	NM_001265945
TNFSF8	NM_001266670	TXNDC17	NM_001266428	CRHR1	NM_001032803	RBBP8	NM_001258203	SNRPA	NM_001257505
ATP6V1G1	NM_001193602	MED31	NM_001194236	METTL2A	NM_001266641	SS18	NM_001257494	TMEM91	NM_001194828
PRPF4	NM_001261569	GABARAP	NM_001261029	TACO1	NM_001194703	AQP4	NM_001257671	RABAC1	NM_001260923
SLC31A1	NM_001257506	KCTD11	NM_001194377	CCDC47	NM_001261244	TTR	NM_001261679	PRR19	NM_001194317
HSDL2	NM_001199126	PLSCR3	NM_001265888	PSMC5	NM_001261301	MAPRE2	NM_001194241	IRGQ	NM_001265865
UGCG	NM_001257723	SPEM1	NM_001194417	DDX5	NM_001258162	ZNF397	NM_001261310	ZNF576	NM_001194336
DNAJC25	NM_001204971	MPDU1	NM_001266148	PRKCA	NM_001260733	ZNF24	NM_001266015	PVR	NM_001043386
LPAR1	NM_001260860	FXR2	NM_001266676	PSMD12	NM_001265853	INO80C	NM_001266502	TRAPPC6A	NM_001194478
TXN	NM_001042732	WRAP53	NM_001260926	C16H17orf58	NM_001190961	RPRD1A	NM_001260968	BLOC1S3	NM_001266400
AKAP2	NM_001204120	TRAPPC1	NM_001194511	KPNA2	NM_001266111	C18orf10	NM_001260587	OPA3	NM_001258146
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RAD23B	NM_001261788	VAMP2	NM_001032820	KCNJ2	NM_001032859	ATP5A1	NM_001266412	FOXA3	NM_001194519
TMEM38B	NM_001194325	RANGRF	NM_001194570	SOX9	NM_001032868	ST8SIA5	NM_001083950	IRF2BP1	NM_001194518
TAL2	NM_001194446	CCDC42	NM_001194589	RAB37	NM_001266608	C18H18orf32	NM_001190838	AP2S1	NM_001261143
FCMD	NM_001257495	STX8	NM_001265754	HN1	NM_001039945	CXCC1	NM_001266605	TMEM160	NM_001266299
OR13C8	NM_001194361	HS3ST3A1	NM_001194643	MRPS7	NM_001261058	SMAD4	NM_001261090	NAPA	NM_001194588
PPP3R2	NM_001195420	COX10	NM_001194644	KIAA0195	NM_001265878	TXNL1	NM_001261708	GLTSCR2	NM_001261574
RNF20	NM_001261573	ZNF287	NM_001266709	SAP30BP	NM_001261024	RNF152	NM_001193834	CYTH2	NM_001260891
STX17	NM_001194798	UBB	NM_001194808	SEC14L1	NM_001258116	KDSR	NM_001257943	SPHK2	NM_001257487
SEC61B	NM_001266938	TOM1L2	NM_001260762	PGS1	NM_001194399	TMX3	NM_001266505	FUT1	NM_001047154
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MCART1	NM_001194642	WSP1	NM_001261284	MRP63	NM_001193743	QLC1	NM_001265722	IRF3	NM_001135797
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CREB3	NM_001265647	KIAA0100	NM_001194408	PSPC1	NM_001257902	GAMT	NM_001261132	ZNF473	NM_001260571
KIAA1539	NM_001193876	DHRS13	NM_001194463	MTMR6	NM_001267015	FAM108A1	NM_001267030	IZUMO2	NM_001194696
STOML2	NM_001260882	NUFIP2	NM_001261811	CDK8	NM_001261340	IZUMO4	NM_001194062	CTU1	NM_001194705
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AQP3	NM_001258043	SLC6A4	NM_001032823	PRHOXNB	NM_001194734	GADD45B	NM_001260874	TFPT	NM_001194720
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SMU1	NM_001265906	GOSR1	NM_001257945	SLC7A1	NM_001266615	SLC39A3	NM_001267794	LILRA3	NM_001040675
APT4	NM_001266434	CCL4L1	NM_001032873	UBL3	NM_001257793	SGTA	NM_001194732	LILRA1	NM_001040670
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TOPORS	NM_001266141	UTP6	NM_001261608	HMGB1	NM_001265806	GIPC3	NM_001194162	KIR3DL12	NM_001105171
ACO1	NM_001257865	RHBDL3	NM_001194571	ALOX5AP	NM_001266489	VMAC	NM_001193782	KIRDL8	NM_001105172
C15H9orf72	NM_001257526	ASIC2	NM_001271252	STAR1D3	NM_001261243	SLC25A23	NM_001257915	KIR3DL21	NM_001104553
PLAA	NM_001260548	CCL11	NM_001032874	RFC3	NM_001266801	MCOLN1	NM_001260540	LOC100125569	NM_001105176
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ELAVL2	NM_001261000	FNDC8	NM_001194617	UFM1	NM_001257925	RETN	NM_001243087	NLRP7	NM_001114354
MTAP	NM_001261737	RASL10B	NM_001194639	STOML3	NM_001193787	RPS28	NM_001193436	ZNF581	NM_001194834
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RRAGA	NM_001194800	CCL3	NM_001034200	ELF1	NM_001260954	ZNF177	NM_001266619	ZNF805	NM_001194103
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CER1	NM_001194495	PNPO	NM_001265856	NAA16	NM_001266616	ICAM3	NM_001195749	ZNF671	NM_001260628
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CDC37L1	NM_001257827	ATP5G1	NM_001195495	GTF2F2	NM_001266711	RAB3D	NM_001194269	RPS5	NM_001265719
SLC1A1	NM_001265831	ZNF652	NM_001266395	TPT1	NM_001266379	TMEM205	NM_001194823	ZBTB45	NM_001266696
VLDLR	NM_001032907	SPOP	NM_001258173	LCP1	NM_001266307	ELOF1	NM_001190902	UBE2M	NM_001194143
CBWD1	NM_001193953	NME2	NM_001204518	HTR2A	NM_001032966	ACP5	NM_001258183	GBE1	NM_001266287
TMEM252	NM_001193966	COX11	NM_001195440	MED4	NM_001265782	C19orf56	NM_001194406	CHMP2B	NM_001266802
KLF9	NM_001265918	COIL	NM_001257478	ITM2B	NM_001258055	WDR83	NM_001194400	CGGBP1	NM_001261776
C15H9orf85	NM_001261161	AKAP1	NM_001261641	LPAR6	NM_001194165	TNP02	NM_001261575	C2H3orf38	NM_001190960
CYP11D1	NM_001246671	MRPS23	NM_001266408	RCBTB1	NM_001260614	C19H19orf43	NM_001194424	PROS1	NM_001044726
RORB	NM_001260751	SEPT4	NM_001266717	ARL11	NM_001194262	JUNB	NM_001194461	ARL6	NM_001257760
NMRK1	NM_001261283	TRIM37	NM_001258090	ALG11	NM_001190890	KLF1	NM_001194455	OR5K1	NM_001193790
GNA14	NM_001265908	SKA2	NM_001266054	OR5L1	NM_001194579	STX10	NM_001261693	TOMM70A	NM_001266153
GNAQ	NM_001261595	C17orf71	NM_001194385	PCDH17	NM_001265711	IER2	NM_001266014	RPL24	NM_001265968
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NTRK2	NM_001261297	PIGW	NM_001257700	FBXL3	NM_001261635	AP1M1	NM_001257538	DPPE2	NM_001266584
NAA35	NM_001194389	AATF	NM_001257577	SLITRK1	NM_001260787	SLC35E1	NM_001266345	CD200	NM_001257544
DAPK1	NM_001257788	SYNRG	NM_001266089	SLITRK5	NM_001265627	USE1	NM_001257921	SLC35A5	NM_001260559
CDK20	NM_001032925	HNF1B	NM_001194548	SOX21	NM_001193732	ABHD8	NM_001265784	NAA50	NM_001261371
NAIF1	NM_001193947	C16H17orf96	NM_001193705	DNAJC3	NM_001266404	MRPL34	NM_001193420	ATP6V1A	NM_001260658
FAM102A	NM_001266645	PSMB3	NM_001257817	RAP2A	NM_001193832	BST2	NM_001161666	QTRTD1	NM_001265882
CDK9	NM_001266230	LASP1	NM_001265873	STK24	NM_001266859	COPE	NM_001194660	IGSF11	NM_001257906
RPL12	NM_001193560	PGAP3	NM_001265734	UBAC2	NM_001171176	LPAR2	NM_001266718	TMEM39A	NM_001258076
HSPA5	NM_001266596	PSMD3	NM_001260856	TEX30	NM_001266631	PLEKHF1	NM_001193737	NR112	NM_001032882
SYK	NM_001261035	CASC3	NM_001260566	ARGLU1	NM_001194022	CEBPQ	NM_001260600	HCL51	NM_001257947
AUH	NM_001257675	SMARCE1	NM_001261306	ABHD13	NM_001190904	LSM14A	NM_001257954	EAF2	NM_001193490
NFIL3	NM_001266913	KRTAP4-1	NM_001193889	ING1	NM_001265941	KIAA0355	NM_001193886	FAM162A	NM_001261743
CENPP	NM_001194801	JUP	NM_001266127	ANKRD10	NM_001257442	SCN1B	NM_001258167	WDR5B	NM_001194550
OGN	NM_001261240	FKBP10	NM_001260551	F7	NM_001080136	PSENBEN	NM_001194826	SEC22A	NM_001194575
BICD2	NM_001257956	DNAJC7	NM_001261251	F10	NM_001104584	HCST	NM_001032835	PTPLB	NM_001261129
C15H9orf89	NM_001260938	RAB5C	NM_001266171	ZNF828	NM_001260800	SDHA1F	NM_001194164	UMPS	NM_001261598
HIATL1	NM_001194284	HCRT	NM_001194432	MC5R	NM_001193897	COX7AH	NM_001040278	ITGB5	NM_001266206
FBP1	NM_001193652	HSD17B1	NM_001047132	PSMG2	NM_001193620	ZNF790	NM_001261671	CHCHD6	NM_001266664
HSD17B3	NM_001266504	FAM134C	NM_001194496	CHMP1B	NM_001194816	ZNF345	NM_001194827	WNNTA	NM_001265938
GLOD4	NM_001265952	TUBG1	NM_001261011	NAPG	NM_001258101	SPINT2	NM_001194343	RPL32	NM_001193573
BHLHA9	NM_001194728	EZH1	NM_001257456	TWSG1	NM_001257525	ACTN4	NM_001261802	VGLL4	NM_001194848
INPP5K	NM_001260646	BECN1	NM_001266885	NDUFV2	NM_001257585	HNRNPL	NM_001266000	SLC6A1	NM_001257768
PAFAH1B1	NM_001258130	RPL27	NM_001265822	ZFP161	NM_001265870	NFKBIB	NM_001258157	SEC13	NM_001266970
EMC6	NM_001266545	BRCA1	NM_001114949	SMCHD1	NM_001258166	MED29	NM_001266003	NYFB	NM_001257720
CYB5D2	NM_001193968	TMEM106A	NM_001194813	NDC80	NM_001265902	SUP25H	NM_001266951	CRELD1	NM_001266467
PSMB6	NM_001195714	GJC1	NM_001194656	TYMS	NM_001195507	DYRK1B	NM_001266667	JAGN1	NM_001260648

Supplemental Table 1: (iii) H3K4me3-enriched genes in the Baboon SVZ Total progenitors

Gene Name	RefSeq ID	Gene Name	RefSeq ID	Gene Name	RefSeq ID	Gene Name	RefSeq ID	Gene Name	RefSeq ID
SYNCRIP	NM_001193845	COPS4	NM_001105280	BRD9	NM_001261189	CDC42SE2	NM_001257601	EID1	NM_001265838
POLR1D	NM_001257459	HNRNP	NM_001260807	CCDC127	NM_001194083	IL3	NM_001101734	COPS2	NM_001193601
SLC35A1	NM_001266759	GK2	NM_001193898	MED10	NM_001260853	PDLIM4	NM_001257803	GABPB1	NM_001194637
PNRC1	NM_001266366	CCNI	NM_001195445	PAPD7	NM_001261299	UQCRCQ	NM_001198732	USP8	NM_001265619
ANKRD6	NM_001261717	STBD1	NM_001194876	ADCY2	NM_001265652	VDAC1	NM_001261754	SCG3	NM_001266092
LYRM2	NM_001265787	CXCL11	NM_001032950	C6H5orf49	NM_001193716	SKP1	NM_001193590	TMOD3	NM_001266419
GJA10	NM_001193951	CXCL9	NM_001032936	SEMA5A	NM_001266494	UBE2B	NM_001194433	RSL24D1	NM_001258062
FUT9	NM_001194065	CDKL2	NM_001136013	CCT5	NM_001258189	SAR1B	NM_001261028	RAB27A	NM_001193855
UFL1	NM_001266325	THAP6	NM_001261521	CMBL	NM_001193768	C6H5orf24	NM_001194883	MNS1	NM_001266861
NDUFAF4	NM_001260754	PARM1	NM_001266923	DAP	NM_001257566	LECT2	NM_001194884	LDHAL6B	NM_001194113
KLHL32	NM_001261738	CXCL3	NM_001032879	FAM105A	NM_001193791	SPOCK1	NM_001266535	FAM81A	NM_001257823
FBXL4	NM_001260363	ALB	NM_001195649	FAM134B	NM_001261775	CDC23	NM_001257557	GTF2A2	NM_001258054
FAXC	NM_001266112	DCK	NM_001257554	LOC100499546	NM_001195043	FAM53C	NM_001266240	RPS27L	NM_001193433
DCUN1D1	NM_001257454	IGJ	NM_001260886	DROSHA	NM_001261157	LRRTM2	NM_001266604	RAB8B	NM_001257955
BVES	NM_001266212	ODAM	NM_001080135	C6H5orf22	NM_001193783	MATR3	NM_001205238	USP3	NM_001266070
PREP	NM_001257914	UGT2B9*2	NM_001033027	SUB1	NM_001261211	PFDN1	NM_001266275	SNX1	NM_001266850
C4H6orf203	NM_001266984	SUMO2	NM_001198691	AMACR	NM_001266997	HBEGF	NM_001257469	TRIP4	NM_001266220
PDSS2	NM_001266911	LPHN3	NM_001261704	RAD1	NM_001261160	APBB3	NM_001266106	PLEKH02	NM_001266727
GTF2H5	NM_001190969	POLR2B	NM_001261497	BRIX1	NM_001261247	NDUFA2	NM_001261499	CLPX	NM_001266087
ZDHHC14	NM_001266260	C4orf14	NM_001193688	LMBRD2	NM_001266468	IK	NM_001256897	PTPLAD1	NM_001266546
TFB1M	NM_001261482	SRP72	NM_001260722	SLC1A3	NM_001266066	WDR55	NM_001256898	RAB11A	NM_001261789
CNKSR3	NM_001265835	PPAT	NM_001260819	PTGER4	NM_001266046	ZMAT2	NM_001261767	RPL4	NM_001266200
OPRM1	NM_001032824	TMEM165	NM_001266322	ITTC33	NM_001261196	PCDH8	NM_001193851	SMAD3	NM_001266160
VIP	NM_001260752	KIT	NM_001266095	C6H5orf51	NM_001193823	RNF14	NM_001260813	C7H15orf61	NM_001194312
C4H6orf211	NM_001257928	CHIC2	NM_001257545	SEPP1	NM_001159490	GNPDA1	NM_001257944	PIAS1	NM_001256301
ZBTB2	NM_001258066	USP46	NM_001266693	NIM1	NM_001266646	NDFIP1	NM_001194017	ANP32A	NM_001260818
GINM1	NM_001193728	MAPK10	NM_001260857	HMGCS1	NM_001260869	FGF1	NM_001266029	RPLP1	NM_001193574
UST	NM_001257513	C5H4orf36	NM_001190949	PAIP1	NM_001266304	YIPF5	NM_001260957	SENP8	NM_001193847
C6orf103	NM_001193764	HSD17B11	NM_001257582	FGF10	NM_001193950	SPINK9	NM_001193441	HEXA	NM_001261529
FBXO30	NM_001261073	NUDT9	NM_001261782	PELO	NM_001190867	GRPEL2	NM_001261153	NEO1	NM_001261500
PLAGL1	NM_001260788	SPP1	NM_001261806	ITGA2	NM_001260822	CSNK1A1	NM_001261235	NPTN	NM_001266786
PEX3	NM_001257927	ABCG2	NM_001032919	IL6ST	NM_001265991	RBM22	NM_001257496	PML	NM_001042434
AIG1	NM_001260565	PPM1K	NM_001266195	C5orf35	NM_001194171	DCTN4	NM_001260767	SEMA7A	NM_001266762
VTA1	NM_001261520	NAP1L5	NM_001266934	RAB3C	NM_001265995	CCDC69	NM_001260862	SCAMP5	NM_001260562
ABRACL	NM_001193359	HPGDS	NM_001194212	DEPDC1B	NM_001194881	G3BP1	NM_001261742	SIN3A	NM_001266100
HEBP2	NM_001194081	TSPAN5	NM_001194290	ELOVL7	NM_001194255	GLRA1	NM_001194977	IMP3	NM_001261712
IFNGR1	NM_001266300	EIF4E	NM_001266219	NDUFAF2	NM_001266244	SAP30L	NM_001261790	FBXO22	NM_001266238
TCF21	NM_001260958	METAP1	NM_001261513	SMIM15	NM_001190845	C6H5orf4	NM_001257519	HMG20A	NM_001261564
RPS12	NM_001195665	DDIT4L	NM_001194403	KIF2A	NM_001266858	MRPL22	NM_001194584	WDR61	NM_001260815
MED23	NM_001261479	PPP3CA	NM_001261563	SREK1P1	NM_001261537	ITK	NM_001266444	IREB2	NM_001260947
C4H6orf58	NM_001193718	NFKB1	NM_001266053	PPWD1	NM_001266376	THG1L	NM_001194604	MORF4L1	NM_001266183
ECHDC1	NM_001261505	UBE2D3	NM_001261204	C6H5orf44	NM_001266356	UBLCP1	NM_001266391	STARD5	NM_001260916
HEY2	NM_001194380	TACR3	NM_001037862	PIK3R1	NM_001261197	TTC1	NM_001266114	C7H15orf40	NM_001261261
CLVS2	NM_001194395	INTS12	NM_001260673	CCNB1	NM_001261149	SLU7	NM_001266559	RPS17L	NM_001265804
SERINC1	NM_001257550	SGMS2	NM_001193740	CDK7	NM_001266657	GABRB2	NM_001168328	PDE8A	NM_001266644
GJA1	NM_001261067	HADH	NM_001261209	SMN1	NM_001260664	GABRA1	NM_001260932	SEC11A	NM_001261576
NUS1	NM_001194492	PLA2G12A	NM_001194877	MAP1B	NM_001265687	MAT2B	NM_001257473	KLHL25	NM_001258115
FAM162B	NM_001194873	ELOVL6	NM_001266921	FCHO2	NM_001257784	RARS	NM_001261218	NTRK3	NM_001265637
RWDD1	NM_001266855	NEUROG2	NM_001193972	UTP15	NM_001260832	KCNMB1	NM_001266453	MRPS11	NM_001261578
TSPYL4	NM_001194874	TRAM1L1	NM_001261483	ENC1	NM_001260583	UBTD2	NM_001194090	ABHD2	NM_001261263
NT5DC1	NM_001261622	METTL14	NM_001261720	NSA2	NM_001261761	DUSP1	NM_001257450	AP3S2	NM_001194004
HS3ST5	NM_001193687	MAD2L1	NM_001195813	FAM169A	NM_001194120	RPL26L1	NM_001267013	GDGPG1	NM_001194046
C4H6orf225	NM_001193364	NDNF	NM_001193470	AGGF1	NM_001261037	ATP6V0E1	NM_001261126	SV2B	NM_001260629
TRAF3IP2	NM_001266136	CCNA2	NM_001266158	LHFPL2	NM_001194391	DRD1	NM_001206975	RCMA	NM_001266917
RPF2	NM_001258154	IL2	NM_001047130	HOMER1	NM_001261570	THOC3	NM_001257488	LRRC28	NM_001257772
FIG4	NM_001172433	IL21	NM_001194242	PAPD4	NM_001261739	FUNDC1	NM_001266574	MEF2A	NM_001260914
SMPD2	NM_001266860	ANKRD50	NM_001266441	ZCCHC9	NM_001195739	HIGD2A	NM_001257901	ASB7	NM_001266289
SNX3	NM_001257953	SLC25A31	NM_001194300	RPS23	NM_001193580	B4GALT7	NM_001260676	ALDH1A3	NM_001266556
OSTM1	NM_001261748	BANF1	NM_001193373	CCNH	NM_001266446	RMND5B	NM_001261593	OR4F6	NM_001193818
SOD2	NM_001032805	SLC7A11	NM_001266291	MEF2C	NM_001266447	CLK4	NM_001257694	OSGEP	NM_001257838
WTAP	NM_001260846	MGARP	NM_001193816	CETN3	NM_001266092	MGAT4B	NM_001266822	TMEM55B	NM_001194893
MRPL18	NM_001265858	RAB33B	NM_001257437	MBLAC2	NM_001193835	RASGEF1C	NM_001194225	PNP	NM_001193551
PLG	NM_001043075	ELMOD2	NM_001193877	ARRDC3	NM_001260940	MGAT1	NM_001257830	RNASE4	NM_001261770
PACRG	NM_001263357	ZNF330	NM_001266710	FAM172A	NM_001193887	NIPA2	NM_001194886	RNASE1	NM_001044738
BRP44L	NM_001260570	IL15	NM_001044731	RHOBTB3	NM_001260883	NDN	NM_001172102	TPPP2	NM_001193990
CCR6	NM_001032935	SMARCA5	NM_001266324	GLRX	NM_001198722	SNRPN	NM_001261205	TOX4	NM_001172413
PSMB1	NM_001260636	ABCE1	NM_001266954	HNRNPC	NM_001261233	UBE3A	NM_001261040	RBM23	NM_001266374
GPR78	NM_001193900	LSM6	NM_001266965	LIX1	NM_001194032	NDNL2	NM_001257507	PRMT5	NM_001258067
GRPEL1	NM_001261551	EDNRA	NM_001261492	RIOK2	NM_001260597	CHRNA7	NM_001032883	C7H14orf119	NM_001190873
MRFAP1	NM_001193938	TMEM184C	NM_001260921	RGMB	NM_001265620	SCG5	NM_001260672	NGDN	NM_001266254
LYAR	NM_001258141	FBXW7	NM_001257948	FAM174A	NM_001194071	CHRM5	NM_001032931	NM9SF1	NM_001266461
ZNF518B	NM_001261812	ARFIP1	NM_001266175	ST8SIA4	NM_001266232	EMC4	NM_001260989	NEED8	NM_001266888
HS3ST1	NM_001194098	TLR2	NM_001130425	GIN1	NM_001194084	ATPBD4	NM_001266595	WDR12	NM_001260900
NKX3-2	NM_001194111	LRAT	NM_001193939	C6H5orf30	NM_001194882	SPRED1	NM_001204360	G2E3	NM_001194652
CD38	NM_001261773	NPY2R	NM_001032832	NUDT12	NM_001194123	GPR176	NM_001266154	SCFD1	NM_001266523
LAP3	NM_001260698	GUCY1B3	NM_001266845	EFGA5	NM_001265728	SRP14	NM_001265919	COCH	NM_001260563
DCAF16	NM_001194742	GRIA2	NM_001185014	SLC25A46	NM_001266009	VPS18	NM_001257653	HECTD1	NM_001261259
LCORL	NM_001172360	PPID	NM_001265834	STARDA4	NM_001260934	CHP1	NM_001266371	HTD2	NM_001194671
DHX15	NM_001260731	C5H4orf43	NM_001266649	NREP	NM_001193355	OIP5	NM_001258125	ARHGAP5	NM_001198663
ANAPC4	NM_001266920	SC4MOL	NM_001260803	DCP2	NM_001266464	TMEM87A	NM_001261600	SPTSSA	NM_001193346
RBPJ	NM_001260693	CBR4	NM_001193693	TSSK1B	NM_001193468	GANC	NM_001257679	CFL2	NM_001261184
TBC1D19	NM_001260783	C5H4orf27	NM_001260760	TRIM36	NM_001266479	SNAP25	NM_001261338	SRP54	NM_001260852
C5H4orf19	NM_001257674	SAP30	NM_001266332	LOC696437	NM_001261210	LRRC57	NM_001194887	FAM177A1	NM_001266493
UGDH	NM_001261103	FBXO8	NM_001265874	CDO1	NM_001260608	CDAN1	NM_001194310	PSMA6	NM_001193553
UBE2K	NM_001260841	AGA	NM_001199093	DTWD2	NM_001261379	PDIA3	NM_001195716	INSM2	NM_001198728
RHOH	NM_001260809	ODZ3	NM_001193929	TNFAIP8	NM_001261083	HYPK	NM_001194889	BRMS1L	NM_001261019
TMEM33	NM_001261135	IRF2	NM_001135793	SFRFBP1	NM_001266668	MFAF1	NM_001266342	PAX9	NM_001040417
GRXCR1	NM_001194126	TLR3	NM_001036685	SNX24	NM_001266411	CTDSP2	NM_001266809	SLC25A21	NM_001266544
GNPDA2	NM_001194875	CYP4V2	NM_001193838	PPIC	NM_001193973	EIF3J	NM_001261052	SEC23A	NM_001261363
SLAIN2	NM_001266145	FRG1	NM_001261228	CSNK1G3	NM_001258050	C7H15orf43	NM_001193506	TRAPPC6B	NM_001261238
OCIA2	NM_001266991	EXOC3	NM_001260656	ISOC1	NM_001266437	DUOXA2	NM_001194505	CTAGE5	NM_001195820
MRPS18C	NM_001266126	TPPP	NM_001266695	HINT1	NM_001258104	MYE2F	NM_001261256	KLHL28	NM_001261270

Supplemental Table 1: (iii) H3K4me3-enriched genes in the Baboon SVZ Total progenitors

Gene Name	RefSeq ID	Gene Name	RefSeq ID	Gene Name	RefSeq ID	Gene Name	RefSeq ID	Gene Name	RefSeq ID
DDIT3	NM_001194700	TNFAIP6	NM_001265940	BOK	NM_001266922	ERCC3	NM_001266408	RAB6A	NM_001261303
PIP4K2C	NM_001261154	CACNB4	NM_001261360	PDCD1	NM_001114358	LIMS2	NM_001265694	PAAF1	NM_001265839
METTL21B	NM_001194759	ARL6IP6	NM_001260607	MYT1L	NM_001265731	POLR2D	NM_001267787	PGM2L1	NM_001265664
GEMIN7	NM_001194715	RPRM	NM_001193741	RNASEH1	NM_001257858	MZT2B	NM_001193944	LIP2T	NM_001194503
USP15	NM_001266957	KCNJ3	NM_001261696	RPS7	NM_001266796	IMP4	NM_001266231	SPCS2	NM_001265830
C11H12orf66	NM_001194721	NR4A2	NM_001266910	IAH1	NM_001193736	CFC1	NM_001190851	RPS3	NM_001266290
XPOT	NM_001258184	GPD2	NM_001261055	PDIA6	NM_001266635	FAM168B	NM_001194008	SERPINH1	NM_001261087
TBK1	NM_001261193	ACVR1C	NM_001266690	ROCK2	NM_001260913	BET1L	NM_001257611	ACER3	NM_001266751
MSRB3	NM_001257851	WDSUB1	NM_001258191	FAM84A	NM_001266538	TOLLIP	NM_001261271	AQP11	NM_001266495
LLPH	NM_001266795	PSMD14	NM_001261490	DDX1	NM_001266562	CARS	NM_001266326	AAMDC	NM_001266228
CAND1	NM_001261692	SLC4A10	NM_001266840	LAPTM4A	NM_001261172	ORAOV1	NM_001194174	NDUFC2	NM_001266174
DYRK2	NM_001261216	PPP4	NM_001039190	C13H2orf43	NM_001194777	SUV420H1	NM_001260793	RPS2	NM_001193577
IL22	NM_001194724	GCA	NM_001266140	DNAJC27	NM_001257595	TBC1D10C	NM_001260757	FAM181B	NM_001194034
RAP1B	NM_001198678	CSRNP3	NM_001257746	KIF3C	NM_001266930	SSH3	NM_001266980	PRCP	NM_001261249
SLC35E3	NM_001194726	LASS6	NM_001266123	HADHA	NM_001265890	KDM2A	NM_001266388	CCDC90B	NM_001260811
MDM2	NM_001266402	BBS5	NM_001194768	EPT1	NM_001135563	YIF1A	NM_001194498	TMEM126B	NM_001267027
LYZ	NM_001101733	PIIG	NM_001266543	PREB	NM_001266941	KLC2	NM_001261630	TMEM126A	NM_001261136
CNOT2	NM_001265869	PHOSPHO2	NM_001194769	ATRAID	NM_001193926	CCDC85B	NM_001261659	PICALM	NM_001266499
THAP2	NM_001193501	KLHL23	NM_001260558	MPV17	NM_001260977	CFL1	NM_001266605	EED	NM_001261266
TPH2	NM_001039946	GORASP2	NM_001261707	SNX17	NM_001265975	FAM89B	NM_001194782	C14H11orf73	NM_001260980
KRR1	NM_001265714	CYBRD1	NM_001193742	IFT172	NM_001257589	FRMD8	NM_001260904	CTSC	NM_001195651
OSBPL8	NM_001260879	DYNC112	NM_001261589	SUPT7L	NM_001260750	CDC42EP2	NM_001194619	CHORDC1	NM_001257756
ZDHC17	NM_001260892	SLC25A12	NM_001261376	MRPL33	NM_001193419	MRPL49	NM_001266995	C14H11orf75	NM_001193371
PPP1R12A	NM_001266093	DLX1	NM_001260619	PPP1CB	NM_001260652	FAU	NM_001194638	TAF1D	NM_001257644
DDT	NM_001257668	OLA1	NM_001266628	EHD3	NM_001257730	GPHA2	NM_001194654	FOLR4	NM_001193805
CHCHD4	NM_001198709	ATP5G3	NM_001198734	DPY30	NM_001261093	EHD1	NM_001261195	ANKRD49	NM_001260919
LSM3	NM_001261364	HOXD12	NM_001194772	YIPF4	NM_001257440	RASGRP2	NM_001261279	CWC15	NM_001266625
CCDC174	NM_001193964	NFE2L2	NM_001257607	EIF2AK2	NM_001083948	GPR137	NM_001261715	SRSF8	NM_001266335
MRPS25	NM_001257670	PRKRA	NM_001260842	CYP1B1	NM_001266868	FKBP2	NM_001266815	SESN3	NM_001266247
TMCC1	NM_001261150	SESTD1	NM_001257515	SRSF7	NM_001195586	COX8A	NM_001266102	FAM76B	NM_001193920
H1FX	NM_001266083	UBE2E3	NM_001257571	SLC8A1	NM_001032861	C14H11orf84	NM_001194689	JRKL	NM_001265892
C11H3orf37	NM_001194040	PDE1A	NM_001257584	COX7A2L	NM_001266821	PLA2G16	NM_001257427	BIRC2	NM_001261321
GP9	NM_001142313	NCKAP1	NM_001266519	MTA3	NM_001265625	CHRM1	NM_001032945	DCUN1D5	NM_001260996
RPN1	NM_001195652	DUSP19	NM_001194218	PPM1B	NM_001266202	STX5	NM_001261004	CASP12	NM_001042431
TPRA1	NM_001261656	NUP35	NM_001266251	PREPL	NM_001194545	TMEM179B	NM_001194702	CASP4	NM_001260956
C11H12orf29	NM_001258198	ZC3H15	NM_001258198	SOCS5	NM_001266928	TTC9C	NM_001194704	AASDHPPT	NM_001171189
EPYC	NM_001194215	ITGAV	NM_001265953	EPCAM	NM_001040029	BSCL2	NM_001260552	ELMOD1	NM_001266487
COX7C	NM_001267540	TFPI	NM_001195022	FOXN2	NM_001261043	SCGB1D1	NM_001193438	SLC35F2	NM_001260513
NUDT4	NM_001261255	COL3A1	NM_001266039	CHAC2	NM_001194778	FTH1	NM_001195380	ACAT1	NM_001265693
PLXNC1	NM_001261691	ASNSD1	NM_001194770	ERLEC1	NM_001194631	SDHAF2	NM_001193692	C14H11orf87	NM_001194288
NDUFA12	NM_001194335	OSGEPL1	NM_001261190	GPR75	NM_001204509	PGA4	NM_001104594	C14H11orf1	NM_001194787
METAP2	NM_001266460	ORMDL1	NM_001266349	RPS27A	NM_001193586	PRPF19	NM_001261081	DLAT	NM_001257575
NTN4	NM_001266055	MFSD6	NM_001265700	CCDC104	NM_001190915	MRPL16	NM_001266431	C14H11orf57	NM_001194375
CDK17	NM_001194763	NAB1	NM_001257641	PDX13	NM_001195570	OR5AN1	NM_001193824	SDHD	NM_001261763
TMPO	NM_001261527	LOC694510	NM_001266816	XPO1	NM_001266844	GLYAT	NM_001257270	ZBTB16	NM_001257623
SLC25A3	NM_001257587	OBFC2A	NM_001261728	FAM161A	NM_001194624	OR10Q1	NM_001193880	REB7	NM_001261071
SCYL2	NM_001266890	SDPR	NM_001265645	EHBP1	NM_001261566	C14H11orf31	NM_001159501	REXO2	NM_001193813
DRAM1	NM_001193971	SLC39A10	NM_001260918	UGP2	NM_001261518	TMX2	NM_001195759	PAFAH1B2	NM_001257739
NUP37	NM_001260738	GTF3C3	NM_001257564	PEL1	NM_001260952	TIMM10	NM_001261523	AMICA1	NM_001261678
HSP90B1	NM_001195524	C12H2orf66	NM_001190741	SERTAD2	NM_001261684	SSRP1	NM_001257891	CD3G	NM_001266295
C11H12orf73	NM_001193345	SF3B1	NM_001265963	SPRED2	NM_001261100	OR4B1	NM_001194287	ATP5L	NM_001258127
CHST11	NM_001258082	COQ10B	NM_001195786	C1D	NM_001193604	NDUFS3	NM_001194303	ARCN1	NM_001265905
TCP11L2	NM_001261173	MOBK13	NM_001257738	CNRIP1	NM_001266378	DBD2	NM_001260837	HMB5	NM_001266660
POLR3B	NM_001266933	RFTN2	NM_001266607	ANXA4	NM_001266953	PAC3IN3	NM_001266225	CBL	NM_001258147
RFX4	NM_001261061	PLCL1	NM_001260854	TIA1	NM_001261758	C14H11orf49	NM_001267006	RNF26	NM_001266883
PRDM4	NM_001257560	C2orf60	NM_001193883	FAM136A	NM_001267012	HARBI1	NM_001261506	OAF	NM_001265793
SART3	NM_001257555	C12H2orf47	NM_001193896	MPHOSPH10	NM_001266435	PHF21A	NM_001265672	SC5DL	NM_001257517
ISCU	NM_001261474	SPATS2L	NM_001260595	CCT7	NM_001265751	SLC35C1	NM_001258150	UBASH3B	NM_001261286
USP30	NM_001257829	CLK1	NM_001261781	STAMBP	NM_001260604	ALKBH3	NM_001190865	HSPA8	NM_001261657
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GIT2	NM_001266994	ALS2CR4	NM_001257889	POLE4	NM_001261810	C14H11orf74	NM_001267023	OR10G7	NM_001194295
PPP1CC	NM_001257831	BMPR2	NM_001260859	CKB	NM_001267031	COMMD9	NM_001266242	OR8B8	NM_001193494
BRAP	NM_001265936	CD28	NM_001042641	REG1B	NM_001194568	TRIM44	NM_001260523	SIAE	NM_001261504
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ADAM1	NM_001195734	GPR1	NM_001047129	TMSB10	NM_001193442	LMO2	NM_001266207	ESAM	NM_001257484
TRAFD1	NM_001266507	CREB1	NM_001261120	RETSAT	NM_001257563	DNAJC24	NM_001261745	STT3A	NM_001257421
PTPN11	NM_001261109	METTL21A	NM_001194117	MAT2A	NM_001195289	METTL15	NM_001260955	PATE4	NM_001194407
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SDS	NM_001194522	RPE	NM_001261714	RNF103	NM_001266577	ANO3	NM_001265904	SRPR	NM_001266746
MED13L	NM_001261532	LANCL1	NM_001258121	IMPACT	NM_001266051	SVIP	NM_001261697	BARX2	NM_001194603
TESC	NM_001257539	IKZF2	NM_001258078	KCNIP3	NM_001257864	GAS2	NM_001257624	TMEM45B	NM_001194533
RFC5	NM_001261662	XRCC5	NM_001257366	CIAO1	NM_001258112	MRGPRX2	NM_001040422	VPS26B	NM_001257745
PEBP1	NM_001246199	ARPC2	NM_001261239	ACTR1B	NM_001257417	TSG101	NM_001195481	ZMYND19	NM_001194731
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RPLP0	NM_001195428	CRYBA2	NM_001194054	COA5	NM_001267542	RPS13	NM_001265917	LCN9	NM_001171841
RNF10	NM_001260820	CNPPD1	NM_001194773	MGAT4A	NM_001194224	C14H11orf58	NM_001193864	FAM163B	NM_001194739
UNC119B	NM_001266482	STK16	NM_001266973	LYG1	NM_001194261	CYP2R1	NM_001193958	SURF6	NM_001194177
RNF34	NM_001265820	DNAJB2	NM_001266581	EIF5B	NM_001261610	PSMA1	NM_001261021	NTNG2	NM_001265764
VPS33A	NM_001257848	INHA	NM_001032955	RPL31	NM_001257287	TBTD10	NM_001265857	MED27	NM_001266508
GPR81	NM_001145254	SCG2	NM_001194420	CREG2	NM_001194358	ARNTL	NM_001257837	UCK1	NM_001194319
ABC9	NM_001261296	KIAA1486	NM_001194144	MRPS9	NM_001257485	DKK3	NM_001265749	FAM78A	NM_001194327
RILPL2	NM_001260833	TM4SF20	NM_001194504	C13H2orf40	NM_001194457	RNF141	NM_001266485	AIF1L	NM_001194341
FAM101A	NM_001194211	PID1	NM_001265883	TTL	NM_001266278	SWAP70	NM_001172414	C15H9orf78	NM_001267022
PIWIL1	NM_001195711	CAB39	NM_001267016	SLC20A1	NM_001193854	RIC3	NM_001261177	LRRRC8A	NM_001257576
RAN	NM_001260776	PSMD1	NM_001257805	IL1B	NM_001042756	OR10A6	NM_001194102	ZER1	NM_001266249
NOC4L	NM_001258179	PDE6D	NM_001194606	HNMT	NM_001195823	ORD2D3	NM_001194381	SPTAN1	NM_001266024
PXMP2	NM_001261587	COPS7B	NM_001194616	CXCR4	NM_001042645	ILK	NM_001195713	GLE1	NM_001261814
SOPPL	NM_001266382	UGT1A1	NM_001032869	MCM6	NM_001260615	OR52W1	NM_001194213	URM1	NM_001266132
ARHGAP15	NM_001258096	ASB1	NM_001261538	DPP10	NM_001265998	TRIM22	NM_001113359	RPL35	NM_001265735
GTDC1	NM_001261488	TWIST2	NM_001193812	INSIG2	NM_001194781	TRIM68	NM_001260732	WDR38	NM_001193696
MBD5	NM_001266707	OTOS	NM_001260881	PTPN4	NM_001266624	PGAP2	NM_001194594	ZBTB26	NM_001261685
MMADHC	NM_001265642	GPR35	NM_001193858	TSN	NM_001266679	PDE2A	NM_001130826	OR1Q1	NM_001193814

Supplemental Table 1: (iii) H3K4me3-enriched genes in the Baboon SVZ Total progenitors

Gene Name	RefSeq ID	Gene Name	RefSeq ID	Gene Name	RefSeq ID	Gene Name	RefSeq ID	Gene Name	RefSeq ID
TADA3	NM_001266137	C2H3orf58	NM_001261041	CDH8	NM_001257905	SEPT7	NM_001258100	TMEM170B	NM_001261045
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SETD5	NM_001265978	TRPC1	NM_001260937	CKLF	NM_001265912	RP9	NM_001257627	GFOD1	NM_001266214
OXTR	NM_001044732	TFDP2	NM_001261774	PDP2	NM_001260605	KBTBD2	NM_001257464	CD83	NM_001261335
CAV3	NM_001194078	ATP1B3	NM_001261524	CBFB	NM_001266558	LSM5	NM_001257816	MYLIP	NM_001261795
EDEM1	NM_001265750	RBP2	NM_001194599	E2F4	NM_001257692	INMT	NM_001266113	FAM8A1	NM_001258124
BHLHE40	NM_001257518	FAIM	NM_001266110	PARD6A	NM_001266564	GGCT	NM_001266969	RNF144B	NM_001265699
LRRN1	NM_001194133	ARMC8	NM_001261014	GFOD2	NM_001260710	FKBP14	NM_001266094	ID4	NM_001265656
CRBN	NM_001195647	DBR1	NM_001266043	RANBP10	NM_001266835	CHN2	NM_001261577	PRL	NM_001047128
EBLN2	NM_001265951	IL20RB	NM_001194658	PSKH1	NM_001265966	TAX1BP1	NM_001266932	ACOT13	NM_001171950
GXYLT2	NM_001193691	TMEM22	NM_001260796	DPEP3	NM_001194056	CBX3	NM_001193607	GMNN	NM_001258199
FOXP1	NM_001266321	MSL2	NM_001266958	PLA2G15	NM_001265818	NPVF	NM_001130827	HIST1H3D	NM_001193714
MITF	NM_001266857	ANAPC13	NM_001190866	CYB5B	NM_001194167	NUPL2	NM_001266179	HIST1H2AE	NM_001193724
ARL6IP5	NM_001257759	TMEM108	NM_001265634	NOB1	NM_001258197	KLHL7	NM_001260642	HFE	NM_001260576
UBA3	NM_001265961	NUDT16	NM_001260890	DHX38	NM_001257881	FAM126A	NM_001266156	HIST1H2AC	NM_001193778
SUCLG2	NM_001261121	ATP2C1	NM_001266023	HP	NM_001260775	SP4	NM_001266828	HIST1H2AD	NM_001193793
SLC25A26	NM_001261056	METTL6	NM_001266134	FTSJ1	NM_001261079	TMEM196	NM_001194223	HIST1H1D	NM_001193819
FHIT	NM_001257821	ZCSSL2	NM_001260520	IL34	NM_001194359	FERD3L	NM_001194245	HIST1H2BH	NM_001193825
FAM107A	NM_001257546	OXNAD1	NM_001265832	ST3GAL2	NM_001266341	AGR2	NM_001194304	ZNF322A	NM_001265932
SLMAP	NM_001261125	TBC1D5	NM_001258153	CLEC18A	NM_001194394	ANKMY2	NM_001257747	HIST1H2BJ	NM_001193949
ARF4	NM_001195582	SATB1	NM_001265648	TMEM231	NM_001258202	SOSTDC1	NM_001194311	HIST1H2BK	NM_001260530
PDE12	NM_001258194	RAB5A	NM_001261148	ADAT1	NM_001194845	ARL4A	NM_001172161	HIST1H2BM	NM_001194045
CHDH	NM_001257809	UBE2E2	NM_001193865	NUDT7	NM_001194315	TMEM106B	NM_001193700	HIST1H2BO	NM_001193884
SPCS1	NM_001193749	TOP2B	NM_001265701	SDR42E1	NM_001194527	NDUFA4	NM_001035524	GPX6	NM_001159358
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PHF7	NM_001258069	CMC1	NM_001261273	COTL1	NM_001261155	RPA3	NM_001266105	TRIM27	NM_001260792
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WDR82	NM_001261101	TGFB2	NM_001261151	FOXC2	NM_001198708	TAC1	NM_001257461	MAMU-A	NM_001048246
PCBP4	NM_001260867	CMTM7	NM_001260694	FBXO31	NM_001258079	SHFM1	NM_001266805	MAMU-A3	NM_001171838
TEX264	NM_001266193	CMTM6	NM_001266122	DPEP1	NM_001260742	DNC1I	NM_001261582	ZNRD1	NM_001114945
RBM15B	NM_001265669	UBP1	NM_001266788	GAS8	NM_001257569	COL1A2	NM_001266337	RPP21	NM_001047138
CYB561D2	NM_001194850	E1F4A2	NM_001195661	PRMT2	NM_001265880	BET1	NM_001260728	GNL1	NM_001047139
CAMKV	NM_001261530	ST6GAL1	NM_001258080	YBEY	NM_001265798	GNG11	NM_001266194	MRPS18B	NM_001105165
IP6K1	NM_001257763	CLDN1	NM_001193969	KRTAP12-4	NM_001194238	CDK6	NM_001261307	C4H6orf136	NM_001105163
GMPPB	NM_001265981	IL1RAP	NM_001032960	LRRC3	NM_001194240	FAM133B	NM_001261033	FLOT1	NM_001105168
APEH	NM_001261735	PYDC2	NM_001193432	PKNOX1	NM_001261289	KRIT1	NM_001261769	DDR1	NM_001114952
LAMB2	NM_001194468	FGF12	NM_001194006	MX2	NM_001079696	CLDN12	NM_001194860	TCF19	NM_001114951
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CCDC72	NM_001193367	NCBP2	NM_001265847	CLDN14	NM_001193733	KIAA1324L	NM_001194030	MAMU-B	NM_001048245
ELP6	NM_001194851	TM4SF19	NM_001194166	CBR3	NM_001193746	SEMA3C	NM_001260533	MICB	NM_001114956
CCR5	NM_001042773	ITFG3	NM_001266354	SETD4	NM_001266274	PHTF2	NM_001258132	CD9	NM_001114965
SACM1L	NM_001194852	NDUFB10	NM_001204758	TMEM50B	NM_001266579	RSBN1L	NM_001257886	LY6G6C	NM_001194576
ZNF501	NM_001194298	NUPF	NM_001204349	IFNAR1	NM_001266513	DNAJC2	NM_001260798	LSM2	NM_001260685
SNRK	NM_001257661	E4F1	NM_001265697	C3H21orf59	NM_001194041	ORC5	NM_001261088	NEU1	NM_001266298
SEC22C	NM_001194677	TBC1D24	NM_001257565	SOD1	NM_001032804	SRPK2	NM_001257472	DOM3Z	NM_001266982
LYZL4	NM_001194683	FLYWCH2	NM_001190858	KRTAP8-1	NM_001193918	RINT1	NM_001257819	PRRT1	NM_001257967
ENTPD3	NM_001266748	OR1F1	NM_001193913	CCT8	NM_001261501	HBP1	NM_001261020	RNF5	NM_001205116
MOBP	NM_001190966	ZNF200	NM_001261221	USP16	NM_001260999	CBLL1	NM_001260727	MAMU-DRB1	NM_001044261
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TBCCD1	NM_001266952	ROGD1	NM_001265992	ATP5J	NM_001257938	GPR85	NM_001266820	MAMU-DMA	NM_001193474
TRA2B	NM_001261336	UBN1	NM_001257606	C3H21orf91	NM_001194344	CTTNBP2	NM_001168625	SLC39A7	NM_001261144
TMEM41A	NM_001257828	FAM86A	NM_001194839	BTG3	NM_001266041	NAA38	NM_001266597	RPS10	NM_001193579
EHHADH	NM_001257492	TMEM114	NM_001194176	HSPA13	NM_001193708	KCND2	NM_001261699	TAF11	NM_001261556
C2H3orf70	NM_001193899	METTL22	NM_001194202	ABCC13	NM_001032930	FAM3C	NM_001266245	STK38	NM_001260590
CAMK2N2	NM_001193366	ZC3H7A	NM_001257840	FAM20C	NM_001193713	NDUFA5	NM_001198685	C4H6orf89	NM_001258161
AP2M1	NM_001260598	BFAR	NM_001260924	COX19	NM_001257834	GPR37	NM_001257869	FTSJD2	NM_001257787
EIF2B5	NM_001266121	RRN3	NM_001257664	PAPOLB	NM_001194858	GCC1	NM_001265763	CCDC167	NM_001261613
ABCC5	NM_001260653	C20H16orf45	NM_001194421	ACTB	NM_001033084	CALU	NM_001260801	GLO1	NM_001261764
KLHL24	NM_001260584	TMC7	NM_001257826	KDELRL2	NM_001260765	TNPO3	NM_001266048	TREML1	NM_001194729
DNAJC19	NM_001266267	GDE1	NM_001260575	ZDHHC4	NM_001261639	UBE2H	NM_001261059	CCND3	NM_001265987
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TNFSF10	NM_001266034	C20H16orf82	NM_001145761	FIS1	NM_001266401	MRPS33	NM_001266016	SUPT3H	NM_001266569
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SEC2E	NM_001195502	TMEM219	NM_001260842	TMEM248	NM_001193777	OR2A2	NM_001193978	CRISP1	NM_001032811
PDCD10	NM_001266410	INO80E	NM_001194364	TPST1	NM_001257885	C3H7orf33	NM_001194007	IL17F	NM_001261287
SPTSSB	NM_001193354	CD2BP2	NM_001260696	VKORC1L1	NM_001266931	EZH2	NM_001266503	FBXO9	NM_001160298
B3GALNT1	NM_001266280	SEPHS2	NM_001159420	CHCHD2	NM_001198739	ZNF862	NM_001266842	LRRC1	NM_001266506
SMC4	NM_001261676	RNF40	NM_001194214	MRPS17	NM_001266196	GIMAP4	NM_001257713	FAM83B	NM_001194454
IL12A	NM_001044734	ORAI3	NM_001194521	VSTM2A	NM_001193935	CDK5	NM_001266418	PRIM2	NM_001266600
SCHIP1	NM_001265718	BCKDK	NM_001257638	GRB10	NM_001257428	CHPF2	NM_001244592	LMBRD1	NM_001194516
LXN	NM_001266988	C20H16orf58	NM_001194596	IGFBP3	NM_001260547	RHEB	NM_001261182	C4H6orf57	NM_001194396
GFM1	NM_001261690	ORC6L	NM_001194605	RAMP3	NM_001257448	ACTR3B	NM_001266189	KHDC1	NM_001257908
MLF1	NM_001261200	PHKB	NM_001261044	LOC705636	NM_001261009	HTR5A	NM_001195824	EEF1A1	NM_001195750
SSR3	NM_001266544	CBLN1	NM_001193684	PPIA	NM_001032809	DNAJB6	NM_001257911	TMEM30A	NM_001260817
KCNAB1	NM_001260716	SNX20	NM_001261262	TMED4	NM_001266681	NCAPG2	NM_001258148	MYO6	NM_00104536
GMPS	NM_001261203	RPGRIP1L	NM_001257423	NUDCD3	NM_001266593	DUSP22	NM_001260542	IRAK1BP1	NM_001194610
MME	NM_001260814	CES5A	NM_001168494	YKT6	NM_001266540	EXOC2	NM_001266944	LCA5	NM_001266344
RAP2B	NM_001194854	MT3	NM_001266138	COA1	NM_001265636	PSMG4	NM_001261808	ELOVL4	NM_001040419
P2RY1	NM_001261723	MT1E	NM_001195830	PSMA2	NM_001266881	FAM50B	NM_001267791	TPBG	NM_001193701
COMMD2	NM_001194418	ARL2BP	NM_001267028	C7orf36	NM_001194130	NRN1	NM_001194743	PRSS35	NM_001048244
TM4SF18	NM_001261318	GINS3	NM_001260655	STARSD3NL	NM_001266168	SLC35B3	NM_001257835	CYB5R4	NM_001193767
PLSCR4	NM_001266547	SLC38A7	NM_001260850	ELMO1	NM_001257647	C4H6orf52	NM_001193881	MRAP2	NM_001261086

Supplemental Table 1: (iii) H3K4me3-enriched genes in the Baboon SVZ Total progenitors

Gene Name	RefSeq ID	Gene Name	RefSeq ID	Gene Name	RefSeq ID	Gene Name	RefSeq ID	Gene Name	RefSeq ID
RPL10L	NM_001194068	MAK16	NM_001260675	KIN	NM_001261813	SMNDC1	NM_001266756	CLN8	NM_001194050
RPS29	NM_001267537	RNF122	NM_001266064	OPTN	NM_001032897	PDCD4	NM_001257846	AGPAT5	NM_001257833
SAV1	NM_001261241	DUSP26	NM_001257818	PRPF18	NM_001260784	GPAM	NM_001266771	MNP1A	NM_001032862
ERO1L	NM_001266764	ERLIN2	NM_001257541	CDNF	NM_001193826	TRUB1	NM_001266998	SPAG11B	NM_001037282
GNPNAT1	NM_001260696	TM2D2	NM_001260764	DCLRE1C	NM_001204350	CCDC172	NM_001193986	DEFB2L	NM_001128851
FERMT2	NM_001266319	IDO1	NM_001077483	FAM188A	NM_001193862	CACUL1	NM_001266943	LOC574310	NM_001032922
CGRRF1	NM_001266210	GOLGA7	NM_001194104	C1QL3	NM_001265799	BAG3	NM_001266507	MNP2	NM_001032863
FBXO34	NM_001266246	GINS4	NM_001261222	PTPLA	NM_001193912	MCMBP	NM_001257663	ROAD2	NM_001131060
OTX2	NM_001177645	POLB	NM_001257703	CACNB2	NM_001257782	WDR11	NM_001266829	CTSB	NM_001194899
MUDENG	NM_001194895	SLC20A2	NM_001266611	ARL5B	NM_001193479	HTRA1	NM_001258176	TNKS	NM_001261281
PSMA3	NM_001260896	THAP1	NM_001257879	DNAJC1	NM_001261677	OAT	NM_001266478	TUSC3	NM_001266279
DAAM1	NM_001257504	MCM4	NM_001266203	COMMD3	NM_001195447	FAM53B	NM_001193710	CNOT7	NM_001266847
JKAMP	NM_001260993	UBE2V2	NM_001266843	RAB18	NM_001266790	BCCIP	NM_001265671	NAT2	NM_001044736
DHRS7	NM_001260168	SNAI2	NM_001260982	ARHGAP12	NM_001260799	MGMT	NM_001257605	INTS10	NM_001266582
MNAT1	NM_001261796	LOC100499551	NM_001195073	NRP1	NM_001265816	NKX6-2	NM_001266630	FGF17	NM_001194186
TRMT5	NM_001261618	PCMTD1	NM_001260718	CUL2	NM_001257552	SPRN	NM_001194653	KIAA1967	NM_001194900
SNAPC1	NM_001257672	FAM150A	NM_001194437	LOC100499557	NM_001195085	CYP2E1	NM_001040213	PEBP4	NM_001190951
RHOJ	NM_001260613	RB1CC1	NM_001266144	CSGALNACT2	NM_001172170	APOBEC3A	NM_001246231	NEFL	NM_001265845
PPP2R5E	NM_001266743	TCEA1	NM_001260708	ZNF32	NM_001260922	MAMU-AG	NM_001134230	BNIP3L	NM_001037284
ESR2	NM_001265821	RPS20	NM_001257253	CXCL12	NM_001032934	MRPL41	NM_001258134	PNMA2	NM_001257697
ZBTB25	NM_001194209	UBXN2B	NM_001261602	ZNF22	NM_001261786	MAMU-B18	NM_001114964	ADRA1A	NM_001114733
GPX2	NM_001115137	TOX	NM_001261489	OR13A1	NM_001194549	PRKX	NM_001258204	TRIM35	NM_001257556
FNTB	NM_001257705	RAB2A	NM_001193860	TIMM23	NM_001190973	NLGN4Y	NM_001145058	CCDC25	NM_001266572
GPHN	NM_001257815	CLVS1	NM_001265738	OGDHL	NM_001265802	PNPLA4	NM_001193844	FZD3	NM_001261141
TMEM229B	NM_001194355	GGH	NM_001260712	SNCG	NM_001266560	AMELX	NM_001098513	LEPROTL1	NM_001266983
VT1B	NM_001266359	ARMC1	NM_001261315	GRID1	NM_001257667	TMSB4X	NM_001260557	XPNPEP1	NM_001266962
RDH11	NM_001257659	PDE7A	NM_001266863	GHITM	NM_001266702	RAB9A	NM_001194908	ENY2	NM_001265903
RDH12	NM_001194401	C8H8orf46	NM_001194901	TMEM254	NM_001266368	GLRA2	NM_001266926	SYBU	NM_001265668
ERH	NM_001260564	VCIPI1	NM_001260931	SFTPA1	NM_001195376	TMEM27	NM_001194195	UTP23	NM_001193908
SLC39A9	NM_001194438	COPS5	NM_001260680	PIPF	NM_001266124	AP1S2	NM_001194910	EXT1	NM_001258133
KIAA0247	NM_001194447	ARFGEF1	NM_001261046	RPS24	NM_001261027	RBBP7	NM_001261191	TAF2	NM_001266380
SYNJ2BP	NM_001260960	TRAM1	NM_001266375	KCNMA1	NM_001032810	SCML1	NM_001114112	MRPL13	NM_001258083
ADAM21	NM_001194322	RPL7	NM_001193556	VDAC2	NM_001257424	SCML2	NM_001261359	DERL1	NM_001257937
PNMA1	NM_001257567	UBE2W	NM_001266510	ADK	NM_001266651	RS1	NM_001194911	WDYHV1	NM_001265979
ELMSAN1	NM_001257926	TMEM70	NM_001266511	CHCHD1	NM_001258084	EIF1AX	NM_001261777	FBXO32	NM_001257729
VRTN	NM_001194898	PI15	NM_001193804	ANXA7	NM_001260935	DCAF8L2	NM_001266964	RNF139	NM_001261771
FCF1	NM_001261542	PKIA	NM_001193422	MRPS16	NM_001257904	MAGEB10	NM_001193982	TRIB1	NM_001193695
DLST	NM_001260749	STMN2	NM_001265775	ECD	NM_001261188	FTHL17	NM_001194051	MYC	NM_001142873
MLH3	NM_001257783	MRPS28	NM_001261089	DDIT4	NM_001257796	PRRG1	NM_001261082	FAM49B	NM_001261694
NEK9	NM_001265631	FABP12	NM_001194902	C9H10orf54	NM_001190878	GPR34	NM_001266567	ST3GAL1	NM_001261634
AHSA1	NM_001266884	CHMP4C	NM_001193985	PCBD1	NM_001266886	DUSP21	NM_001265675	PTPA3	NM_001193694
ADCK1	NM_001266902	RALYL	NM_001201567	LRRC20	NM_001194412	SERPINB6	NM_001202551	GIHPB1	NM_001266526
DIO2	NM_001159294	C8H8orf59	NM_001257266	H2AFY2	NM_001266414	FOXP3	NM_001032918	TSTA3	NM_001261649
TSHR	NM_001195395	CA2	NM_001195417	DDX50	NM_001258182	MAGED4B	NM_001266405	EXOSC4	NM_001261104
GTF2A1	NM_001257710	DCAF4L2	NM_001198702	CCAR1	NM_001260782	XAGE5	NM_001193739	GPA1	NM_001266834
FLRT2	NM_001266473	NBN	NM_001265739	HNRNPH3	NM_001266749	FAM156A	NM_001193751	ZNF7	NM_001266571
KCNK10	NM_001261558	LOC696190	NM_001261304	DEK	NM_001257528	GPR173	NM_001257596	ZNF250	NM_001267795
ZC3H14	NM_001266592	LRRC69	NM_001193750	LRRMT3	NM_001266575	HUWE1	NM_001266752	ZMYND11	NM_001261102
TDP1	NM_001257779	FAM92A1	NM_001265930	EGR2	NM_001258086	APEX2	NM_001261365	LARP4B	NM_001260689
NRDE2	NM_001193888	KIAA1429	NM_001193848	ZNF365	NM_001257568	MAGEH1	NM_001260625	WDR37	NM_001260851
CPSF2	NM_001257580	TP53INP1	NM_001266580	C9H10orf107	NM_001194905	SPIN3	NM_001260981	AKR1E2	NM_001194235
GOLGA5	NM_001257502	SDC2	NM_001260964	CDK1	NM_001261470	ZC4H2	NM_001261736	MXI1	NM_001261031
IFI27	NM_001048169	MTDH	NM_001266369	UBE2D1	NM_001257863	EDA2R	NM_001193467	FRA10AC1	NM_001266720
GSKIP	NM_001194191	COX6C	NM_001193384	CISD1	NM_001257590	NONO	NM_001194913	LGI1	NM_001261057
PAPOLA	NM_001265897	ANKRD46	NM_001266498	MBL2	NM_001105535	CXCR3	NM_001145040	CYP2C18	NM_001194066
C7H14orf177	NM_001194226	PABPC1	NM_001257897	CSTF2T	NM_001266798	PHKA1	NM_001261198	CYP2C75	NM_001040211
SETD3	NM_001260871	YWHAZ	NM_001260899	SGMS1	NM_001257652	RLIM	NM_001266839	CYP2C76	NM_001177788
DIO3	NM_001122649	NCALD	NM_001257764	PAPSS2	NM_001266008	UPRT	NM_001261749	DNTT	NM_001266694
WDR20	NM_001266073	AZIN1	NM_001260734	ATAD1	NM_001257770	PGK1	NM_001195658	AVP1	NM_001266977
CINP	NM_001266052	SLC25A32	NM_001266738	PTEN	NM_001260965	TGIF2LX	NM_001032888	SLC25A28	NM_001265757
TRMT61A	NM_001257540	LRP12	NM_001261683	FAS	NM_001032933	PABPC5	NM_001044728	ABCC2	NM_001032847
SIVA1	NM_001261325	ANGPT1	NM_001266116	IFIT2	NM_001261730	NAP1L3	NM_001265658	ERLIN1	NM_001194366
C7H14orf79	NM_001193779	EIF3E	NM_001258088	PPP1R3C	NM_001257737	PCDH19	NM_001265688	CWF19L1	NM_001266734
CRIP1	NM_001266846	EMC2	NM_001257604	IDE	NM_001258074	DRP2	NM_001266215	BLOC1S2	NM_001266915
ZNF596	NM_001266814	TMEM74	NM_001193905	CYP26A1	NM_001193915	H2BFWT	NM_001193918	NDUF8	NM_001265766
CXHorf57	NM_001193976	FAM127A	NM_001194127	CETN2	NM_001195814	WBP1L	NM_001194587	LBX1	NM_001194466
PLS3	NM_001266221	CXHorf48	NM_001194153	SLC6A8	NM_001266276	PCGF6	NM_001194611	POLL	NM_001266906
WDR44	NM_001266328	DDX26B	NM_001265682	G6PD	NM_001266470	USMG5	NM_001265824	FBXW4	NM_001257946
C1GALT1C1	NM_001260840	ARHGFEF6	NM_001266573	DKC1	NM_001260994	GSTO1	NM_001260555	KCNIP2	NM_001194520
THOC2	NM_001260621	SOX3	NM_001193752	GTF2E2	NM_001260927	PRKCG	NM_001261312	LDB1	NM_001266417
CXHorf64	NM_001193842	LDOC1	NM_001260647	PTP2CB	NM_001260748	TRIM8	NM_001266728	CUEDC2	NM_001257660
RAP2C	NM_001194044	MAGEC2	NM_001265825	RBM17	NM_001257732	MTM1	NM_001261718	ACTR1A	NM_001257775
GPC4	NM_001265741	SPANXN	NM_001032954	MOSPD1	NM_001261620				

Supplemental Table 1: (iv.) H3K4me3-enriched genes in the Baboon SVZ overlap comparison between NSC and NB populations

NSC-specific Genes (2160)											
ADD1	RWDD3	ACBD6	GNAZ	LSM3	IDH1	EIF5B	BIRC2	RCL1	EZH1	TXNL1	ZSCAN1
MAEA	DBT	TOR1AIP2	GUCD1	MRPS25	IKZF2	CHST10	DDI1	SLC1A1	BECN1	LMAN1	ZBTB45
ITLL10	EXTL2	NUF2	CRYBA4	GP9	MREG	CREG2	KIAA1826	CBWD1	HEXIM2	PMAP1	CHMP2A
GLTPD1	SLC30A7	RXRG	PITPNB	RPN1	RPL37A	IL1R2	AASDHPPT	PTAR1	CRHR1	KDSR	CHMP2B
MRPL20	OLFM3	MGST3	GAL3ST1	RUVBL1	CXCR1	TMEM182	ELMOD1	CYP1D1	METTL2A	SERPINB10	POU1F1
GNB1	PRMT6	UCK2	DUSP18	TPRA1	ARPC2	MPEP9	C14H11orf65	RORB	CYB561	TMX3	CGGBP1
RER1	SLC25A24	MAEL	SELM	C11H12orf29	TMBIM1	C13H2orf49	C14H11orf87	NMRK1	FTSJ3	DOCK6	PROS1
RPL22	HENMT1	CD247	YWHAH	DUSP6	CTDSP1	TTL	C14H11orf1	GNA14	DDX5	CD226	ARL6
VAMP3	PSRC1	SFT2D2	TIMP3	GNLNT4	CRYBA2	IL1B	HSPB2	TLE1	PRKCA	NETO1	MINA
RERE	PSMA5	XCL1	LARGE	POC1B	DNAJB2	CXCR4	C14H11orf57	GKAP1	PSMD12	C18orf55	GPR15
SPSB1	GSTM3	SLC19A2	TOM1	BTG1	DES	MCM6	TEX12	DAPK1	C16H17orf58	RNF126	CMSS1
CTNBP1	AHCYL1	METTL18	TST	CRADD	CHPF	DPP10	PTS	CDK20	MAP2K6	GPX4	TMEM45A
TNFRSF1B	KCNA2	FMO2	CSNK1E	PLXNC1	INHA	C1QL2	ZBTB16	SHC3	KCNJ2	ATP5D	FAM55C
DHR33	KCNA3	PIGC	DNAL4	NDUFA12	EPHA4	C13H2orf76	REXO2	CKS2	SOX9	CIRBP	ALCAM
ZBTB17	LRIF1	FASLG	SMCR7L	VEZT	CUL3	TMEM177	BACE1	GADD45G	COG1	GAMT	CD47
NECAP2	DENND2D	CENPL	FAM109B	METAP2	TM4SF20	PTPN4	FXYD6	NAIF1	CDC42EP4	UQCR	IFT57
IGSF21	WDR77	SERPINC1	LDLOC1L	ELK3	CCL20	RALB	SCN2B	FAM102A	RAB37	FAM108A1	ABHD10
EMC1	CTTNBP2NL	CACYBP	NUP50	CDK17	PID1	ERC3	ARC1	SYK	SLC9A3R1	SLC39A3	CD200
ALPL	SLC16A1	LOC100423509	ATXN10	FAM71C	CAB39	POLR2D	DPAGT1	AUH	CDR2L	S1PR4	ATP6V1A
CELA3B	OLFML3	TNR	PPARA	DRAM1	EIF4E2	FAM168B	USP2	NFIL3	HN1	EEF2	QTRT1D
KDM1A	SIKE1	RFWD2	CDPF1	IGF1	EFHD1	CD151	THY1	CENPP	MRPS7	TNFIP8L1	IGSF11
ZNF436	ATP1A1	ZNF692	CERK	CHST11	ATG16L1	CHID1	TBCEL	BICD2	KIAA0195	KDM4B	B4GALT4
GALE	CD58	SH3BP5L	ZBED4	C11H12orf45	UGT1A1	TOLLIP	UBASH3B	NINJ1	ACOX1	SLC25A23	TMEM39A
RHCE	CD2	NLRP3	FAM116B	TCP11L2	SH3BP4	CTSD	SCN3B	HIATL1	SEC14L1	CRB3	ADPRH
TMEM57	TRIM45	SMYD3	ADM2	C11H12orf23	AGAP1	MRPL23	OR4D5	FBP1	TNRC6C	MCOLN1	FSTL1
ZNF593	WDR3	ADSS	SLC6A12	CRY1	CXCR7	CD81	ESAM	INPP5K	SOC53	CD209	RABL3
CD52	ACP6	LGALS8	FBXL14	PRDM4	ASB1	TSSC4	ST3GAL4	CYB5D2	TBC1D16	RAB11B	EAF2
SFN	GNAQ	RBM34	LRTM2	ISCU	TWIST2	CTTN	BARX2	MED11	NPTX1	ACTL9	CSTA
GNP2	FCGR1	KIAA1804	FKBP4	ALKBH2	OTOS	ORAOV1	TMEM45B	PSMB6	C16H17orf70	OR1M1	SEC22A
TRNP1	CA14	NTPCR	PARP11	FAM222A	GPR35	SUV420H1	ZMYND19	SLC25A11	SIRT7	OR7D4	PTPLB
FGR	LASS2	DISC1	CD9	PPTC7	BOK	YIF1A	C15H9orf142	RPAIN1	TEX19	ZNF177	ITGB5
EYA3	POGZ	GNPAT	MLF2	PPP1CC	DTYMK	CCDC85B	INPP5E	WSCD1	FN3KRP	UBL5	ROPN1B
YTHDF2	MRPL9	GALNT2	C11H12orf57	BRAP	ING5	FAM89B	NACC2	XAF1	CRYL1	PPAN	SLC41A3
SRSF4	S100A10	CCSAP	PHC1	PTPN11	RNASEH1	FRMD8	BRD3	KCTD11	ZMYM2	P2RY11	ALDH1L1
MECR	SMCP	PCMTD2	KLRF1	OAS1	IAH1	MRPL49	VAV2	TNFSF12	MTMR6	ICAM3	CHST13
SNRNP40	CHTOP	GID8	OLR1	CCDC42B	ODC1	DNAJC4	SURF4	TMEM107	SHISA2	C19H19orf52	CHCHD6
KPNA6	CREB3L4	LSM14B	ETV6	SDS	PDIA6	COX8A	GTF3C4	MFS6L	POMP	ACP5	WNT7A
ADC	RAB13	ATP5E	LOH12CR1	MED13L	KCNF1	C14H11orf83	TNNG2	RCVRN	UBL3	C19orf56	HDAC11
SMIM12	SHC1	STX16	CREBL2	TESC	E2F6	GANAB	MED27	TMEM220	KATNAL1	TNPO2	VGLL4
NCDN	EFNA3	RAB22A	HEBP1	PRKAB1	FAM84A	FAD52	AIF1L	HS3ST3A1	ALOX5AP	C19H19orf43	ATG7
TRAPPC3	RHBG	RBM38	WBP11	RNF10	DDX1	C14H11orf10	METTL11A	COX10	RXFP2	JUNB	SLC6A11
LSM10	HAPLN2	CBLN4	C11H12orf69	SPPL3	FAM49A	C14H11orf9	CRAT	PMP22	RFC3	CALR	SEC13
MEAF6	MRPL24	PFDN4	MGP	RNF34	TTC32	PRPF11	SH3GLB2	ZSWIM7	MAB21L1	STX10	NFYB
MTF1	PRCC	ZFP64	RERF	GPR81	C13H2orf43	MS4A7	LRR8C8A	FLCN	RFXAP	NDUF87	EDEM1
FHL3	CD1D	STAU1	EPS8	ABC89	AFBLNR	URM1	ATPAF2	EXOSC8	AKAP8L	BHLHE40	
PPT1	CD1B	CSE1L	LMO3	RILPL2	PTRHD1	OR4A47	PSMB7	ALKBH5	STOML3	AP1M1	LRRN1
RIMKLA	ATP1A2	MMP9	SLCO1A2	ZNF664	ADCY3	CHRM4	LHX2	GRAP	LHFP	SLC35E1	EBLN2
C1H1orf50	PEA15	MYBL2	LYRM5	PWIL1	DNAJC27	PHF21A	STRBP	DHR57B	ELF1	USE1	FOXP1
SLC2A1	NCSTN	IIFT52	KRAS	NOC4L	KIF3C	CHST1	ZBTB26	LYRM9	C13orf15	ABHD8	MITF
CDC20	F11R	ZHX3	RASSF8	ARHGAP15	EPT1	C14H11orf74	RBM18	FAM222B	C13orf31	MRPL34	UBA3
ELOVL1	UHMK1	TOP1	SSPN	GTDCC1	C13H2orf70	SLC1A2	STOM	CRYBA1	GTF2F2	INSL3	FAM19A1
ATP6V0B	TRIM11	SLC32A1	MED21	MBD5	C13H2orf18	ELF5	RAB14	NUFIP2	LCP1	PIK3R2	SLC25A26
EIF2B3	GUK1	ADIG	STK38L	RND3	LBH	LMO2	TRAF1	CORO6	ESD	SUGP1	PRICKLE2
HECTD3	PSEN2	RPRD1B	REP15	CACNB4	EHD3	CSTF3	TLR4	TMIGD1	MED4	ZNF507	PSMD6
PRDX1	C1H1orf95	C10H2orf118	MRPS35	RPRM	DPY30	QSER1	TRIM32	OMG	RB1	PDCD5	SYNPR
LURAP1	PYCR2	DLGAP4	PTHLH	NR4A2	FAM98A	PAX6	TNFSF8	CDK5R1	LPAR6	KCTD15	C2H3orf14
MOB3C	EPHX1	SCAND1	GXYLT1	GPD2	EIF2AK2	DNAJC24	C15H9orf91	ASIC2	ARL11	KIAA0355	FHIT
CMPK1	LBR	EDEM2	YAF2	ACVR1C	CCDC42EP3	MPPED2	POLE3	NLE1	ALG11	FAM187B	FAM107A
SPATA6	CAPN2	TP53INP2	ADAMTS20	PKP4	CYP1B1	ARL14E4P	HDHD3	RASL10B	KLHL1	HCST	SLMAP
ELAVL4	DUSP10	KIF3B	NELL2	TANK	SRSF7	LINC7	KIAA1958	NFE2L1	KLF12	POLR2I	PDE12
FAF1	TGFB2	DEFB129	FAM113B	B3GALT1	MTA3	FIBIN	HSDL2	HOXB8	TBC1D4	MED29	SELK
CDKN2C	KCTD3	NRSN2	C11H12orf68	LASS6	PPM1B	GAS2	UGCG	ATP5F1	UCHL3	SUPT5H	CHDH
RNF11	PROX1	CSNK2A1	CACNB3	BBS5	PREPL	MGRPRX2	DNAJC25	NXPH3	KCTD12	DYRK1B	WDR82
GPX7	KCNH1	C20orf54	CCDC65	PHOSPHO2	PRKCE	LOC96844	C15H9orf152	SPOP	SLITRK1	PLD3	RPL29
DIO1	DIEXF	PDYN	COX14	DYNC1I2	ATP6V1E2	RP513	AKAP2	NME1	SLITRK5	CYP2B6	ABHD14B
TMEM59	IRF6	SNRNP	ATF1	DLX1	C13H2orf61	C14H11orf58	C9orf4	CA10	RAP2A	MIA	RBM15B
SSBP3	TRAF3IP3	ZNF343	C11H12orf44	ITGA6	EPCAM	SPON1	KLF4	TOM1L1	SLC15A1	EGLN2	TMEM115
PCSK9	PFKFB2	IDH3B	HOXC4	OLA1	FOXN2	ARNTL	RAD23B	HLF	ANKRD10	B9D2	CYB561D2
ATG4C	EIF2D	GNRH2	OR10P1	ATP5G3	ASB3	DKK3	TAL2	MMD	F7	GSK3A	TUSC2
PGM1	AVPR1B	FSTKD5	CD63	HOXD12	SPTBN1	RNF141	PPP3R2	TMEM100	F10	PAFAH1B3	GNAI2
JAK1	NUCKS1	DDR6K1	IL23A	MTX2	CCDC104	C11orf17	ZNF189	NOG	CDC16	ZNF428	CAMKV
LEPR	ELK4	C10H2orf194	STAT2	PRKRA	C13H2orf74	RPL27A	ALG2	SCPEP1	ML5R	GEMIN7	CCDC72
PDE4B	KLHDC8A	SPEF1	HSD17B6	SESTD1	B3GNT2	OR10A4	GALNT12	AKAP1	LDLRAD4	OPA3	CAMP
SGIP1	TMCC2	MAVS	NAB2	PDE1A	EHBP1	TAF10	EXOSC3	MRPS23	CHMP1B	SNRPD2	CCR5
GADD45A	CNTN2	PRNP	STAT6	DUSP19	VPS54	HBE1	ZBTB5	SRSF1	NAPG	PP5C	SACM1L
DIRAS3	REN	SLC23A1	OS9	NUP35	PELL1	OR51G2	CCIN	41521	RAB31	AP2S1	TMEM42
LRR40	ETNK2	MCM8	AGAP2	ZC3H15	RAB1A	OR52M1	GLIPR2	C17orf71	NDUFV2	EMP3	LOC714979
ZRANB2	ZC3H11A	C20orf103	CYP27B1	ITGAV	ACTR2	RHOG	RUSC2	PTRH2	ZFP161	RYTH2	ZNF501
FPGT	BTG2	PAK7	CTDSP2	ASN5D1	SPRED2	LRTOMT	FANCG	C6H5orf48	MSCHD1	RPL13A	ABHD5
TNNI3K	SYT2	SNAP25	USP15	ORMDL1	C1D	C11orf59	AQP3	PPM1D	TYMS	IZUMO2	SEC22C
RABGGTB	GPR37L1	MKKS	C11H12orf61	MSTN	ARHGAP25	PDE2A	SMU1	APPBP2	RBBP8	LRR40B	CTNBP1
ST6GALNAC3	TIMM17A	PCSK2	C11H12orf66	STAT1	ANXA4	FAM168A	TMEM215	DHR511	SS18	SIGLEC11	ENTPD3
PIGK	TNNT2	PET117	WIF1	OBFC2A	ADD2	PGM2L1	C15H9orf72	AATF	AQP4	ZNF175	MOBP
AK5	CAMSAP1L1	C10H2orf26	CAND1	GTF3C3	TEX261	OR2AT4	MOB3B	C16H17orf96	NOL4	PRPF31	OXSR1
RPF1	ASPM	RALGAPA2	DYRK2	SF3B1	PAIP2B	SERPINH1	PLAA	RPL23	MAPRE2	RPS9	MYD88
C1H1orf52	B3GALT2	THBD	IFNG	PLCL1	RTKN	RAB30	CAAP1	LASP1	ZNF24	NLRP7	TBCCD1
DDAH1	RGS1	NXT1	NUP107	C2orf60	TACR1	PICALM	TUSC1	PPP1R1B	GALNT1	COX6B2	C2H3orf70
GTF2B	FAM5C	CST11	SLC35E3	SPATS2L	CTNNA2	FZD4	ELAVL2	CASC3	RPRD1A	UBE2S	KLHL24
LRR8C	IVNS1ABP	APMAP	CNOT2	FAM126B	RNF181	FOLR4	KLHL9	IGFBP4	C18orf10	ZNF581	SOX2
LRR8C8	EDEM3	ABHD12	THAP2	NOP58	RPIA	PWIL4	PTPLAD2	CCR7	ATP5A1	NLRP11	PIK3CA

Supplemental Table 1: (iv_b) H3K4me3-enriched genes in the Baboon SVZ overlap comparison between NSC and NB populations

NSC-specific Genes continued (2160)											
EIF5A2	GPR56	TMEM106B	NUDT3	BRP44L	CPNE2	SOSTDC1	COX5A	DICER1	ARL5B	DCAF8L2	TNFSF10
SLC7A14	ZNF319	ICA1	RPL10A	RNASET2	TMEM144	MZB1	ETFA	GLRX5	DNAJC1	MAGEB10	TNIK
CLDN11	C20H16orf80	MIOS	P116	GRPEL1	C5H4orf146	CUTA	TSPAN3	VRK1	COMMD3	NR0B1	FAM69A
SERPIN1	SLC38A7	TAC1	CCDC167	KIAA0232	NPY1R	WTAP	CIB2	C7H14orf177	GAD2	CXH2orf21	DR1
SMC4	CDH8	SHFM1	GLO1	MRFAP1L1	CPE	FAM198B	FAH	SETD3	NRP1	FTHL17	RNASEL
IL12A	CDH11	DNC1	KCNK17	JAKMIP1	MFAP3L	CXCC5	MESDC1	DIO3	CUL2	TMEM47	STX6
LXN	CKLF	COL1A2	TFEB	CYTL1	SAP30	IGIP	IL16	HSP90AA1	CCNY	PRRG1	SLC6A2
MLF1	NAE1	CDK6	PTCRA	ZNF518B	GPM6A	PFDN1	CPEB1	C7H14orf79	HNRNPF	DYNLT3	GNAO1
KCNAB1	LOC696623	KRIT1	GTPBP2	HS3ST1	SPATA4	NDUFA2	SEC11A	CLN8	ZNF32	TSPAN7	MT3
MME	PSKH1	CLDN12	MRPS18A	NKX3-2	SPCS3	PCDH45	KLHL25	CSGALNACT1	CXCL12	MID1P1	RPAP2
RAP2B	PSMB10	ABCB1	SLC29A1	CD38	ODZ3	PCDH8	NTRK3	NUDT18	DRGX	ATP6AP2	FERD3L
P2RY1	PLA2G15	C3H7orf23	SUPT3H	PROM1	DCTD	PCDH8B	ABHD2	REEP4	C10orf72	CASK	AGR2
P2RY12	NOB1	CD36	ENPP4	LDB2	CLDN24	TAF7	GDPGP1	KIAA1967	BMPR1A	NDP	BZW2
SLAH2	WWP2	TMEM60	MUT	LAP3	STOX2	KIAA0141	RGMA	PEBP4	GRID1	FUNDC1	RGL1
SELT	FTSJD1	DNAJC2	RHAG	LCORL	HELT	GNPDA1	IGF1R	NKX3-1	TMEM254	ZNF673	SLC39A7
COMMD2	VAC14	ORC5	DEFB114	DHX15	SLC25A4	YIPF5	TTC23	GNRH1	PIIF	CHST7	RING1
PLSCR1	FA2H	SRPK2	TRAM2	SOD3	PDLIM3	KCTD16	ASB7	BNIP3L	RPS24	RGN	TAPBP
PLSCR4	CTRB1	PIK3CG	GSTA4	ANAPC4	CYP4V2	RBM27	OR4K13	ADRA1A	KCNMA1	TIMP1	KLHL22
C2H3orf58	GABARAPL2	PNPLA8	FBXO9	C5H4orf19	SLC6A3	JAKMIP2	OR4K2	TRIM35	VDAC2	TBC1D25	SDF2L1
CHST2	DYNLRB2	DNAJB9	GCLC	KLF3	MED10	SPINK9	PARP2	CCDC25	CHCHD1	PIM2	COMT
ZBTB38	CDH13	IFRD1	LRRC1	TLR10	PAPD7	PCYOX1L	RNASE4	PNOC	ANAPC16	PLP2	OSTM1
MRAS	HSDL1	GPR85	FAM83B	WDR19	ADCY2	SLC6A7	OR4E2	GFTE2	C9H10orf54	FOXP3	SOD2
NCK1	KIAA0513	FOXP2	BEND6	TMEM33	C6H5orf49	NDST1	DAD1	MAK16	LRRC20	HSD17B10	ZDHH17
TMEM22	COX4NB	CAPZA2	PRIM2	ATP8A1	SEMA5A	MYOZ3	MRPL52	RNF122	H2AFY2	FAM104B	PPP1R12A
PCCB	MAP1LC3B	ST7	UBE2E3	GRXCR1	CMBL	GPX3	PSMB11	DUSP26	TSPAN15	MAGEH1	OSBP18
MSL2	MVD	ASZ1	LMBRD1	GABRA2	FAM105A	GLRA1	SLC22A17	FGFR1	SRGN	RRAGB	NPY2R
PPP2R3A	TRAPPC2L	CTTNBP2	C4H6orf57	COMMD8	FAM105B	SAP30L	JPH4	TM2D2	HERC4	AR	GLRB
RAB6B	BDND5	KCNQ5	SLAIN2	ANKH	ITK	PCK2	SFRP1	NRBF2	OPHN1	CREB1	CYBB
TMEM108	PRMT2	FAM3C	SLC17A5	SCD5	FBXL7	CYFIP2	TM9SF1	GOLGA7	ADO	EFNB1	CRYGC
ATP2C1	YBEY	RNF133	IRAK1BP1	HNRPDL	ZNF622	C5orf40	CMA1	IKKBK	ZNF365	OTUD6A	ICOS
METTL6	WPW2	NDUFA5	LCA5	GK2	C6H5orf22	UBLCP1	STXBP6	SLC20A2	C9H10orf107	DLG3	SPOCK1
OXNAD1	TRAPPC10	WASL	ELOVL4	PAQR3	MTMR12	TTC1	NOVA1	UBE2V2	RHOBTB1	SNX12	MATR3
TBC1D5	RSPH1	GPR37	TPBG	CNOT6L	TOMM40	PTTG1	G2E3	EFCAB1	CDK1	NONO	ACTR1B
KCNH8	C2CD2	GRM8	PRSS35	CXCL13	RAD1	GABRB2	DTD2	PCMTD1	UBE2D1	CXCR3	MGAT4A
NKIRAS1	MX2	GCC1	CYB5R4	CCNI	SLC1A3	FAM196B	ARHGAP5	FAM150A	CSTF2T	CITED1	SEMA4C
TOP2B	LCA5L	TNPO3	SNX14	PARM1	TTC33	KCNMB1	EGLN3	RB1CC1	SGMS1	PHKA1	SEMA7A
LRRC3B	DYRK1A	UBE2H	SYNCRIP	MTHFD2L	C6H5orf51	FBXW11	CFL2	NPBWR1	PTEN	FGF16	CSK
CMC1	DISCR3	C3H7orf45	CNR1	IL8	NIM1	UBT2D	SRP54	SDR16C5	STAMBPL1	P2RY10	MTMR2
AZ12	CLDN14	TSGA14	PNRC1	ALB	HMGCS1	DUSP1	INSM2	IMPAD1	FAS	IT2A2	JRKL
CRTAP	SETD4	MKLN1	ANKRD6	DCK	CCL28	SFXN1	PAX9	FAM110B	PPP1R3C	FAM46D	SESN3
ST6GAL1	RUNX1	SLC35B4	LYRM2	IGJ	PAIP1	HRH2	SLC25A21	UBXN2B	TNKS2	SH3BGR1	KIAA1409
RTP4	ATP5O	PTN	SULT1B1	PELO	TSPAN17	TRAPPC6B	CYP7A1	CYP26A1	POU3F4	SERPINA5	SRPNA5
BCL6	C3H21orf59	TRIM24	KLHL32	UGT2A3	ITGA2	FAM193B	C7H14orf28	TOX	LG1	PCDH19	PDCD1LG2
CLDN1	SOD1	C3H7orf55	FBXL4	STAP1	ARL15	AGXT2L2	ARF6	CA8	HELLS	ARMCX3	JAK2
IL1RAP	GRIK1	RAB19	FAXC	POLR2B	C5orf35	CLK4	METTL21D	RAB2A	CYP2C76	ARMCX2	CER1
PYDC2	BACH1	AGK	MCHR2	SRP72	GAPT	MGAT4B	SOS2	CLVS1	DNTT	ARMCX5	FAM188A
FGF12	USP16	PRSS37	POPC3	PPAT	RAB3C	SQSTM1	ATL1	GGH	PIK3AP1	TMEM31	C1QL3
MB21D2	ADAMTS1	EPHB6	PREP	EXOC1	DEPDC1B	RASGEF1C	SAV1	PDE7A	UBTD1	PLP1	DNAJC7
FAM43A	GABPA	TAS2R40	QRSL1	SRD5A3	NDUFAF2	OR2Y1	GNPNAT1	RDH10	AVP11	FAM199X	HCRT
ACAP2	BTG3	FAM115C	SOBP	KIT	KIF2A	MGAT1	CDKN3	UBE2W	GOLGA7B	CXH2orf57	CNP
DLG1	COX19	ZNF862	SEC63	PPM1K	RGS7BP	CHRNA7	CNIH	PKIA	NDUF88	MORC4	KLHL15
CEP19	ZFAND2A	GIMAP4	GTF2H5	NAP1L5	SREK1IP1	SCG5	FBXO34	IL7	C9H10orf2	ITC22D3	PCYT1B
LOC711340	FTSJ2	GIMAP2	TFB1M	HPGDS	C6H5orf44	GREM1	NAA30	TPD52	LBX1	ATG4A	MPK4
PDIA2	NUDT1	CDK5	CNKSR3	BMPR1B	PIK3R1	ZNF770	PSMA3	ZNF704	ELOVL3	NXT2	SMAD4
C20H16orf13	ZDHH4	RHEB	IPCEF1	E1F4E	SLC30A5	GPR176	DAAM1	PMP2	ACTR1A	RGAG1	C18H18orf32
FAM195A	MYCT1	ACTR3B	METAP1	GTF2H2	PLCB2	MNAT1	CHMP4C	SFXN2	CHRD1L	ZNF304	SERPINA5
STUB1	FAM200A	HTR5A	C4H6orf211	MAPKSP1	CARTPT	C7H15orf57	SNAPC1	LOC696190	C9H10orf32	LHFPL1	ZNF671
NARFL	ZNF498	CNPY1	ZBTB2	NFKB1	MAP1B	PLA2G4B	ZBTB25	TRIQK	OBFC1	HNRNPH2	ESP16.9
GNG13	ZKSCAN1	NDUSP2	TAB2	UBE2D3	UTP15	CDAN1	GPX2	TP53INP1	XPNPEP1	WDR44	NLGN1
TRAF7	C3H7orf43	EXOC2	C6orf103	TACR3	FAM169A	HYPK	FNTB	PLEKHF2	MX1	ZCCHC12	LSM2
ZNF263	CUTL1	GMSD	RAB32	SGMS2	PAPD4	MFAP1	MAX	C8H8orf37	PDCD4	PGRMC1	FKBP1
TIGD7	ORAI2	PSMG4	STX11	HADH	FAM151B	DUOX2A	FAM71D	PTSD5	SHOC2	LAMP2	SMPD2
ZNF174	CCL24	FAM50B	PLAGL1	PLA2G12A	CETN3	MYEF2	TMEM229B	SDC2	GPAM	SH2D1A	CEP57L1
CREBBP	DNAJC30	NRN1	AIG1	ENPEP	GLRX	EID1	ARG2	STK3	AFAP1L2	CXH2orf64	NR2E1
NMRAL1	CLDN4	SLC35B3	VTA1	NEUROG2	LIX1	SECISBP2L	RDH12	ANKRD46	CCDC172	OCRL	MND1
METTL22	GTF2IRD1	C4H6orf52	ABRACL	NDST3	RGBM	COPS2	DCAF5	PABPC1	EMX2	SASH3	TLR2
CARHSP1	GATSL2	C4H6orf228	HEBP2	METTL14	FAM174A	FGF7	KIAA0247	NCALD	RGS10	RAB33A	LRAT
DEXI	WBSCR17	C6orf105	TNFAIP3	NDNF	GIN1	DTWD1	PCNX	KLF10	PPAPDC1A	RBMX2	SKP1
PRM1	PHKG1	PHACTR1	IFNGR1	TMEM155	C6H5orf30	RLIM	SIPA1L1	BAALC	WDR11	MST4	UBE2B
RRN3	LANCL2	GFOD1	TFCF21	IL21	NUDT12	USP8	RGS6	SLC25A32	C9H10orf120	GPC4	LECT2
TM7	VSTM2A	CD83	MOXD1	SPRY1	EFNA5	TNFAIP8L3	PSEN1	ANGPT1	ACADSB	CCDC160	GLCE
ITPR1L2	IGFBP3	MYLIP	C4H6orf58	PHF17	SLC25A46	TMOD3	ACOT6	EMC2	BUB3	PLAC1	SENP8
IQCK	BLVRA	CAP2	HEY2	SLC1T	STAR4D	ARPP19	VRTN	EXT1	GPR26	BR3	NEO1
THUMPD1	HECW1	NUP153	CLVS2	C5H4orf33	NREP	MNS1	MLH3	NOV	FAM53B	CD40LG	NR2E2
UBFD1	SFRP4	PRL	GJA1	SLC7A11	FEM1C	FAM81A	NEK9	TAF2	FAM196A	F9	FBLN5
PRKCB	ELMO1	ACOT13	ASF1A	MGARP	TMED7	GCNT3	FOS	DERL1	MGMT	SOX3	C7H14orf142
CACNG3	41524	CMAH	SLC35F1	NAA15	CDO1	RPS27L	C7H14orf1	FBXO32	C9H10orf93	TMEM185A	CCDC3
C20H16orf82	NPSR1	HIST1H1A	NUS1	RAB33B	TNFAIP8	CA12	TGFB3	RNF139	MTG1	MTM1	PRPF18
PPP4C	RP9	HIST1H1T	FAM162B	SETD7	SRFBP1	SNX1	VASH1	MYC	PRKX	CD99L2	ACBD7
GDPD3	LSM5	HIST1H1D	RWDD1	ELMOD2	41336	SNX22	KIAA1737	CHRA2	PNPLA4	FATE1	E1F1AX
BOLA2	CHN2	ZNF322A	COL10A1	IL15	C6H5orf63	KIAA0101	ADCK1	PTP4A3	TLR7	NSDHL	PRDX4
ZNF688	SKAP2	HIST1H1B	NT5DC1	USP38	CTXN3	ZNF609	DIO2	LYNX1	GEMIN8	DUSP9	SAT1
ORAI3	SNX10	GPX6	C4H6orf225	GAB1	SLC12A2	RASL12	TSHR	LRRC14	GLRA2	SLC6A8	MTCP1
COX6A2	HNRNPA2B1	GPX5	TRAF3IP2	SMARCA5	KIAA1024L	CLPX	FLRT2	ZNF7	ASB11	L1CAM	RAB39B
ORC6L	NPVF	GABBR1	SLC16A10	HHP	CDC42SE2	RAB11A	GALC	ZNF250	AP1S2	MCEP2	VAMP7
C20H16orf87	MPP6	MOG	RPF2	SMAD1	IL3	SNAPC5	KCNK10	IL2RA	RBBP7	TAZ	USP6NL
PHKB	NPY	RPP21	C6orf186	C5H4orf51	IRF1	RN4	TTC8	PRKCQ	SCML1	G6PD	RS1
SLAH1	RAPGEF5	NRM	CDC40	EDNRA	IL13	SMAD3	KCNK13	KIN	SCML2	H2AFB3	MTCP1NB
CBLN1	CDC47L	MDC1	FIG4	FBXW7	LEAP2	FEM1B	PSMC1	SNX20	ITGB8	RPGRIPL1	TMEM196
ZNF326	C1H1orf21	PX26	GLIPR1	CD28	C1A01	ENDOD1	RRAGA	FKBP10	SMAD2	NLRP8	KCNMB2

Supplemental Table 1: (iv_c) H3K4me3-enriched genes in the Baboon SVZ overlap comparison between NSC and NB populations

NB-specific Genes (273)											
SSU72	C16H17orf59	MRPS18C	SNRPD3	KIR3DL12	PDIA3	REG1B	FAM20C	MRPS16	RANBP6	RPL7L1	ARL10
SH2D5	STX8	HNRNPD	CRYBB2	LOC100125569	RSL24D1	LYG1	ACTB	ECD	CDC37L1	TMEM30A	B4GALT7
BEND5	GOSR1	SUMO2	RABL2B	C2H3orf38	LDHAL6B	HNMT	PDAP1	DDX50	RPL12	MRAP2	SPRED1
PRKACB	CCL4L1	LOC100499503	PIANP	NAA50	SIN3A	TSN	ACHE	CCAR1	HSPA5	OPRM1	CHP1
LMO4	CCL11	TMEM165	TAS2R13	GTF2E1	IMP3	CFL1	RABL5	PAPSS2	OGN	PEX3	FAM136A
ZCRB1	MRPL10	ELOVL6	TAS2R46	SUCLG2	SNX33	EHD1	CHCHD2	CH25H	NSFL1C	FOXA3	STAMBIP
TMED5	VMP1	TRAM1L1	PRKAG1	RPP14	MRPS11	SDHAF2	MRPS17	FRA10AC1	TRMT6	NAPA	POLE4
GPR89B	HNF1B	GUCY1B3	SLC4A8	TEX264	NRGN	OR5AN1	STARD3NL	POLL	TMEM90B	BAX	TIA1
BOLA1	KRTAP4-1	PPID	MAP3K12	RPSA	OR4Q3	OR10Q1	GGCT	BCCIP	ZNF280B	LIN7B	NUDT7
SF3B4	TMEM106A	FBXO8	OR6C4	NDUF85	TMEM55B	TIMM10	NUPL2	NKX6-2	LOC100499557	SURF6	MPHOSPH6
HAX1	MRP63	EXOC3	WIBG	PDCD10	WDR12	OR4B1	BET1	CYP2E1	ZNF22	LPAR1	FOXC2
RT1	OR5L1	LOC100499546	TBK1	SCHIP1	SCFD1	NDUFS3	FGL2	APOBEC3A	OGDHL	TXN	ATP5J
LMNA	SOX21	ELOVL7	DDT	GK5	HECTD1	API5	RINT1	MAMU-AG	FAM190B	TRMT10B	THOC2
FCGR2A	NDC80	ENC1	TMCC1	FAIM	RPL10L	OR10A6	TAS2R16	MRPL41	VSTM2L	HNRNPL	THG1L
FCGR2B	CXXC1	DTWD2	SLC25A3	IL20RB	RPS29	OR2D3	CALU	MAMU-B18	RBM12	RABAC1	MAT2B
UAP1	CDH7	FGFR1OP2	MAPKAPK5	SATB1	ESR2	FOLR1	EZH2	COX7A2L	TM9SF4	IRGQ	ATP6V0E1
RNF187	GNF7	SAR1B	RPLP0	DECR2	ZNF596	RAB6A	HIST1H2BH	TMSB4X	SUPT7L	CBFB	CPSF1
ARF1	DHPS	CAMLG	CSRNP3	FAHD1	ROAD2	PAAF1	MAMU-A3	MAGEB1	AFTPH	PSMD7	CDC123
MOSC2	CYP4F22	CSNK1A1	EEF1B2	TMEM114	NAT2	ACER3	GNL1	GPR34	WDR92	ADAT1	CACNB2
LOC100499547	CYP4F12	DCTN4	CNPPD1	EMP2	LOC100499551	CHORDC1	C4H6orf136	SERPINB6	AMICA1	MAMU-I	HUWE1
TRMT1L	OCEL1	CDC69	NPPC	LCMT1	C8H8orf46	DCUN1D5	TUBB	XAGE5	HSPA8	MAMU-B	H2BEWT
RHOJ	LRP3	C6H5orf4	PREB	C20H16orf54	FABP5	LCN9	MAMU-DRB1	LOC100499562	C15H9orf172	MICB	CCND3
MAMU-DMB	ARHGEF6	TAF11	CETN2	TREML1	KIF1C	PLG	PLSCR3	LYAR			

Supplemental Table 1: (iv_d) H3K4me3-enriched genes in the Baboon SVZ overlap comparison between NSC and NB populations

NSC/NB overlap (477)											
HMX1	PPP1CB	CNDP2	IL17F	SCAMP5	ASTN1	BTBD10	CSRNP1	MAPK10	TNKS	SLC38A2	HSD17B3
PCGF3	YIPF4	PQLC1	MYO6	STARD5	PGBD2	SWAP70	DNAJC19	TSPAN5	TUSC3	TMBIM6	GLOD4
VWA1	RASGRP3	TXNL4A	POLR1D	C7H15orf40	COX20	RIC3	SEC62	DDIT4L	FGF17	TFCP2	TLCO2
TPRG1L	SLC8A1	VMAC	SLC35A1	PDE8A	AKT3	OR52W1	SPSSB	PPP3CA	NEFL	EIF4B	TVP23B
PHF13	KCNM3	IER2	GJA10	SV2B	GREM2	TRIM22	GMP5	INTS12	FZD3	STAC3	ZNF287
DFFA	RTN4	LPAR2	DCUN1D1	SLCO3A1	CHRM3	FCHSD2	TM4SF18	ANKRD50	LEPROTL1	MDM2	TOM1L2
EFHD2	PEX13	PLEKHF1	ZDHHC14	MEF2A	TBCE	NDUFC2	ACPL2	SLC25A31	ERLIN2	TPH2	B9D1
TRIM63	XPO1	LSM14A	GINM1	SEC23A	SPATA2	FAM181B	SOX14	MGST2	GINS4	PPFIA2	MAP2K3
SMAP2	SERTAD2	SCN1B	UST	KLHL28	ELMO2	CCDC90B	RAB5A	ZNF330	THAP1	TMPO	WSB1
FOXJ3	SPR	COX7AH	FBXO30	GNM2	SNTA1	TMEM126B	UBE2E2	TMEM184C	MCM4	SCYL2	KIAA0100
TRIM63	XRRTM1	ZNF790	MED23	ERO1L	PCB1	CTSC	TGFB2	ARFIP1	SNAI2	SART3	CYTH1
NEGR1	RETSAT	ZNF345	CENPW	FERMT2	FLRT3	C14H11orf75	CMTM7	GRIA2	TCEA1	GIT2	PYCR1
ZNHIT6	ST3GAL5	SPINT2	PLN	JKAMP	DSTN	GPHN	UBP1	C5H4orf43	ARFGEF1	RFC5	PSPC1
CDC7	RNF103	ACTN4	HS3ST5	TRMT5	NANP	SC5DL	EIF4A2	CBR4	PI15	HSPB8	PRHOXNB
CNN3	CNNIP3	NFKB1B	SNX3	RHOJ	CECR5	VPS26B	ZNF200	FRG1	STMN2	FAM101A	SLC7A1
CCDC76	INPP4A	AKT2	PACRG	DCAF4	TOP3B	UCK1	FAM86A	CCDC127	MRPS28	PXMP2	STARD13
PTNP2	C13H2orf40	PRR19	CCR6	ELMSAN1	RASL10A	C15H9orf78	ZC3H7A	DAP	RALYL	SPOPL	HTR2A
NOTCH2	INSIG2	C19orf61	PSMB1	POMT2	RBFOX2	OR1Q1	BFAR	FAM134B	CA2	ARL6IP6	PCDH17
SEC22B	MZT2B	PVR	GPR78	GTF2A1	EIF3D	DBC1	CDR2	DROSHA	DCAF4L2	GCA	PCDH9
TXNIP	IMP4	PPP2R1A	MRFAP1	TDP1	POLR2F	SLC31A1	TUFM	BRIX1	NBN	GORASP2	FBXL3
ILF2	CFC1	FCAR	RAB28	CPSF2	GRAP2	FAM206A	C20H16orf58	LMBRD2	LRRRC69	COL3A1	DNAJC3
THBS3	CARS	ZNF805	TBC1D19	GOLGA5	TSPO	OR13C8	ARL2BP	PTGER4	FAM92A1	NAB1	STK24
C1H1orf35	MACROD1	GBE1	TBC1D1	GSKIP	C11H12orf4	TMOD1	GINS3	PLCXD3	MTDH	SDPR	UBAC2
TLR5	C14H11orf84	TOMM70A	RHOH	TRMT61A	VWF	C4H6orf203	CYB5B	SEPP1	OSR2	SLC39A10	TEX30
LYPLAL1	SLC35C1	SETD5	GNPDA2	CRIP1	SLC2A3	MTAP	DHX38	FGF10	LRP12	MOBK3	ARGLU1
CSRP1	TSPAN18	CAV3	OCLAD2	C8H8orf42	FAR2	SNAPC3	ST3GAL2	SNX18	SYBU	BMPR2	PSMG2
NEK7	ACCS	CRBN	STBD1	AGPAT5	METTL20	KLF9	KARS	IL6ST	UTP23	GPR1	SNRPD1
RGS2	TRIM44	ARL6IP5	LPHN3	SPAG11B	CNTN1	NTRK2	SDR42E1	HTR1A	MED30	LANCL1	IMPACT
C1H1orf27	ANO3	SNRK	CHIC2	CTSB	TMEM117	NAA35	DPEP1	AGGF1	MRPL13	SCG2	CHST9
RGS5	SVIP	LYZL4	USP46	FDFT1	SLC38A1	ANGPTL2	IFNAR1	LHFPL2	TRIB1	KIAA1486	TTR
BRI3	FAM172A	LARP4B	C3H7orf33	GABRB3	DUSP21	PLS3	C3H21orf91	HOMER1	FAM49B	PSMD1	B4GALT6
TMEM248	RIOK2	WDR37	NCAPG2	NDNL2	MAGED4B	ZBTB33	HSPA13	RPS23	ST3GAL1	MYT1L	RIT2
TPST1	ST8SIA4	AKR1E2	TMEM170B	EMC4	MAGED2	C1GALT1C1	ABCC13	CCN7	GPIHBP1	ROCK2	ST8SIA5
VKORC1L1	DCP2	DCLRE1C	RNF144B	ATPBD4	SPIN3	FAM127A	PAPOLB	MEF2C	TSTA3	RHOB	RNF152
GRB10	TSSK1B	PTPLA	ID4	VPS18	ZC4H2	LDOC1	KDEL2	ARRDC3	ZMYND11	MBL2	NLGN4Y
NUDCD3	TRIM36	THNSL1	NRSN1	CTDSPL2	MSN	SLITRK2	SEMA3C	MRPL22	NT5C2	MTPN	NDN
PSMA2	CSNK1G3	ARHGAP12	GMNN	RAB27A	EDA2R	CLIC2	PHTF2	GABRG2	GSTO1	MRPS33	SNRPN
C7orf36	GRAMD3	CSGALNACT2	TRIM27	PTPLAD1	CXHorf26	KIAA1324L	IMMP2L	RARS	CACUL1	AMELX	CD2AP
TAX1BP1	FAM13B	SNCG	FLOT1	PIAS1	TGIF2LX	FGF1	BPGM	DRD1	HTRA1	PML	DRP2
SP4	LRRTM2	LRRTM3	KCTD20	HEXA	NAP1L3	SRI	NDFIP1	REEP3			

Supplemental Table 1: (v_a) H3K4me3-enriched genes in the Baboon SVZ: Gene Ontology by DAVID for H3K4me3-enriched genes in NSCs

Over-represented Functional categories of target genes in neural stem cells identified by Gene Ontology enrichment analysis using DAVID.								
Term	Count	%	PValue	Genes	Fold Enrichment	Bonferroni	Benjamini	FDR
GO:0042127~regulation of cell proliferation	136	6.82388359	3.625E-07	NOG, TGFB3, IL13, TNFSF12, IL15, MXI1, NR2E1, TGFB2, CTNBB1, CUL3, FNTB, CUL2, CD47, CTTNBP2, MYD88, CDKN2C, IFNG, IL1B, CHRNA7, SYK, LBX1, EFN1, IL21, PROX1, VASH1, PDCD1LG2, PTHLH, CD38, TRIM35, NME1, ADAMTS1, PMP22, EIF2AK2, EMP3, FGFR1, MVD, GNAI2, SOX2, ASZ1, CALR, SOX9, TIMP1, KRAS, PRKRA, NKX3-1, ODC1, TESC, GNRH1, BECN1, KLF10, SMAD4, DUSP22, RPS9, SMAD3, ITGA2, SMAD2, SMAD1, FOXP3, FOXP1, FOXP2, RERG, TMEM115, ADRA1A, MAB21L1, KLF4, KCTD11, SASH3, FGF7, NRP1, TACR1, MITF, PAX6, GJA1, SKAP2, PTEN, EDNRA, ARHGAP5, HEY2, CHST11, DLG3, SHC1, CSK, MYC, PRL, RHOG, PRKCA, RXFP2, CDK6, RB1, INHA, CIAO1, PRKCO, PPM1D, BTG2, BTG1, NCK1, BTG3, CD81, IL12A, TSHR, EIF5A2, CER1, ING5, EGLN3, TAC1, ZBTB16, COMT, SFN, KIT, POU1F1, STAT6, CD9, IGF1R, CYP27B1, PTN, BCL6, FKBPL, CD28, IL3, NACC2, IL2RA, IL8, IL7, IGF1, TRIM24, STAT1, CDKN3, SOD2, CDH13, MNAT1, IRF6, JAK2, ATP5A1, IGFBP3, SCAND1, BMPR1A	1.522963135	0.001479717	0.001479717	0.00067518
GO:0007242~intracellular signaling cascade	199	9.98494732	4.08739E-07	ADCY3, ADCY2, RAB1A, CTNBB1, DIRAS3, S1PR4, IFNG, GAB1, RAPGEF5, PIK3CA, CHRNA7, DEPDC1B, DDAH1, MAP2K6, SYK, GTPBP2, PIK3CG, MAPKSP1, TNK1, KIAA1804, CYP26A1, TANK, CRHR1, RAD1, RND3, CD36, RAB19, RAB14, RAB13, IRAK1BP1, GNAI2, CNIH, DUSP10, ASB11, ARF6, CALR, DUSP19, KRAS, CDC42EP4, DUSP22, SMAD2, OXSR1, SMAD1, PTPN11, RERG, RGS1, NPY, CD209, RGS6, RHEB, PLA2G4B, GNAZ, TOLLIP, SHOC2, EDNRA, MC5R, RAB6B, AGAP1, ARL5B, AGAP2, HTR5A, RAP2B, RAP2A, SRPK2, AR, RXFP2, ELMO1, DNAJC27, SS18, MED4, PSEN1, GNAQ, GNB1, DNAJC25, GADD45G, PSEN2, RBM38, SIAH2, CARHSP1, RAB3C, USP8, NPY2R, GNG13, RTKN, KIT, SFN, PLCL1, MDC1, SQSTM1, RB1CC1, SOS2, RAB11B, RAB11A, RAB2A, IL8, SPSB1, IGF1, NPY1R, STAT1, SOD1, STAT2, NAE1, P2RY12, RAB32, CDH13, RAB31, RAB30, YWHAH, P2RY11, DUSP1, RAB37, RAB22A, CHN2, DUSP9, DUSP6, TGFB3, TLR2, TLR4, RPS27L, RASGEF1C, TLR7, RGL1, ARL11, SPRED2, RALB, IL1B, SOCS3, STK3, PTHLH, COL1A2, ASB1, CARTPT, ASB3, ASB7, FGFR1, GRAP, MRAS, AZI2, CNR1, P2RY1, RHOBTB1, DYRK2, TRAF7, STK38L, ITK, TLR10, TAF7, VAV2, RAB33A, RAB33B, TRAF3IP2, PDE7A, ADRA1A, IKBKB, NDST1, TACR1, PRDX4, ARHGAP5, CXCR4, RASL10B, SHC1, SHC3, CSK, PRL, PLCB2, RHOG, PRKCA, CDK1, RABL3, RAB39B, RB1, ARL6, RASL12, PRKCE, CDK5, DAPK1, PRKCB, PRKCO, CHRM4, CA8, KRIT1, CD81, TSHR, NKIRAS1, HCRT, EGLN2, TMED7, IGF1R, TYMS, ROPN1B, HRH2, REN, PIK3R1, FKBPL, CKS2, JAK1, JAK2, FAF1, SMPD2	1.396331874	0.001668307	0.000834502	0.0007613
GO:0010941~regulation of cell death	138	6.92423482	9.57357E-07	MAEA, MMP9, TGFB3, MAEL, TLR2, RPS27L, TLR4, TNFSF12, SGMS1, PMAIP1, NR2E1, CRADD, TGFB2, CUL3, CUL2, G2E3, MYD88, CDKN2C, IFNG, IL1B, PIK3CA, FAS, TWIST2, MAP2K6, PIK3CG, SOCS3, ADAMTS20, PIM2, F7, STK3, CD38, TRIM35, CD40LG, NME1, TNFAIP8, TNFAIP3, TRAF1, CDK5R1, GCLC, RRAGA, PPT1, CALR, SOX9, MST4, TIMP3, PLAGL1, PEA15, KRAS, ALB, PRKRA, NKX3-2, GLO1, DYRK2, TRAF7, PTCRA, HELLS, SPPL3, GNRH1, BECN1, KLF10, NR4A2, SMAD3, VAV2, PPIF, DLX1, TNFSF10, SFRP1, PDCD5, IKBKB, MITF, FASLG, NFKB1, PTEN, PRDX1, ACVR1C, PAK7, BOK, CHST11, MYC, PRKCA, KCNMA1, CDK1, SLC25A4, RXFP2, INHA, PRKCE, NLRP3, CDK5, DAPK1, BTG2, PSEN1, BTG1, PSEN2, NAI1, IL12A, KCNH8, PRNP, CLN8, MGMT, ZBTB16, SFN, KIT, FEM1B, IGF1R, SQSTM1, RB1CC1, SOS2, DAD1, CD2, PCSK9, BCL6, AATF, ERCC3, TEX261, IL3, IL2RA, IL7, CREB1, IGF1, STAT1, SOD1, ANXA4, BIRC2, SOD2, TNFSF8, NAE1, NCSTN, CDH13, MNAT1, DUSP1, IFT57, BNIP3L, JAK2, FAF1, IGFBP3, SCAND1, SMPD2, TP53INP1	1.492267541	0.003903168	0.001302753	0.00178312
GO:0042981~regulation of apoptosis	135	6.77370798	1.98003E-06	MAEA, MMP9, TGFB3, MAEL, TLR2, RPS27L, TLR4, TNFSF12, SGMS1, PMAIP1, NR2E1, CRADD, TGFB2, CUL3, CUL2, G2E3, MYD88, CDKN2C, IFNG, IL1B, PIK3CA, FAS, MAP2K6, TWIST2, PIK3CG, SOCS3, ADAMTS20, PIM2, F7, STK3, CD38, TRIM35, CD40LG, NME1, TNFAIP8, TNFAIP3, TRAF1, CDK5R1, GCLC, PPT1, CALR, SOX9, MST4, TIMP3, PLAGL1, PEA15, KRAS, ALB, PRKRA, NKX3-2, GLO1, DYRK2, TRAF7, PTCRA, HELLS, SPPL3, GNRH1, BECN1, KLF10, NR4A2, SMAD3, VAV2, PPIF, DLX1, TNFSF10, SFRP1, PDCD5, IKBKB, MITF, FASLG, NFKB1, PTEN, PRDX1, ACVR1C, PAK7, BOK, CHST11, MYC, PRKCA, KCNMA1, CDK1, RXFP2, INHA, PRKCE, NLRP3, CDK5, DAPK1, BTG2, PSEN1, BTG1, PSEN2, NAI1, IL12A, KCNH8, PRNP, CLN8, MGMT, ZBTB16, SFN, FEM1B, IGF1R, SQSTM1, RB1CC1, SOS2, DAD1, CD2, PCSK9, BCL6, AATF, ERCC3, TEX261, IL3, IL2RA, IL7, CREB1, IGF1, STAT1, SOD1, ANXA4, BIRC2, SOD2, TNFSF8, NAE1, NCSTN, CDH13, MNAT1, DUSP1, IFT57, BNIP3L, JAK2, FAF1, IGFBP3, SCAND1, SMPD2, TP53INP1	1.479799699	0.008055797	0.002020062	0.00368785
GO:0008285~negative regulation of cell proliferation	72	3.61264425	2.113E-06	NOG, PAX6, TGFB3, GJA1, IL15, SKAP2, MXI1, PTEN, TGFB2, FNTB, CTTNBP2, CUL2, CDKN2C, IFNG, DLG3, IL1B, CSK, PRKCA, LBX1, RXFP2, CDK6, RB1, PROX1, PDCD1LG2, VASH1, PTHLH, TRIM35, PPM1D, BTG2, BTG1, NME1, BTG3, IL12A, ADAMTS1, PMP22, EMP3, EIF2AK2, ING5, CER1, ASZ1, SFN, COMT, ZBTB16, POU1F1, CD9, CYP27B1, PRKRA, NKX3-1, BCL6, TESC, IL2RA, IL8, GNRH1, BECN1, KLF10, SMAD4, SMAD3, SMAD2, TRIM24, SMAD1, CDKN3, FOXP3, SOD2, RERG, TMEM115, CDH13, IRF6, ADRA1A, JAK2, ATP5A1, IGFBP3, KLF4	1.757723298	0.008594476	0.001724835	0.00393552

Supplemental Table 1: (v_b) H3K4me3-enriched genes in the Baboon SVZ: Gene Ontology by DAVID for H3K4me3-enriched genes in NSCs

Term	Count	%	PValue	Genes	Fold Enrichment	Bonferroni	Benjamini	FDR
GO:0043067~regulation of programmed cell death	136	6.82388359	2.12276E-06	MAEA, MMP9, TGFB3, MAEL, TLR2, RPS27L, TLR4, TNFSF12, SGMS1, PMAIP1, NR2E1, CRADD, TGFB2, CUL3, CUL2, G2E3, MYD88, CDKN2C, IFNG, IL1B, PIK3CA, FAS, TWIST2, MAP2K6, PIK3CG, SOCS3, ADAMTS20, PIM2, F7, STK3, CD38, TRIM35, CD40LG, NME1, TNFAIP8, TNFAIP3, TRAF1, CDK5R1, GCLC, PPT1, CALR, SOX9, MST4, TIMP3, PLAGL1, PEA15, KRAS, ALB, PRKRA, NKX3-2, GLO1, DYRK2, TRAF7, PTCRA, HELLS, SPPL3, GNRH1, BECN1, KLF10, NR4A2, SMAD3, VAV2, PPIF, DLX1, TNFSF10, SFRP1, PDCD5, IKBKB, MIF, FASLG, NFKB1, PTEN, PRDX1, ACVR1C, PAK7, BOK, CHST11, MYC, PRKCA, KCNMA1, CDK1, RXFP2, INHA, PRKCE, NLRP3, CDK5, DAPK1, BTG2, PSEN1, BTG1, PSEN2, NAI1, IL12A, KCN8, PRNP, CLN8, MGMT, ZBTB16, SFN, KIT, FEM1B, IGF1R, SQSTM1, RB1CC1, SOS2, DAD1, CD2, PCSK9, BCL6, AATF, ERCC3, TEX261, IL3, IL2RA, IL7, CREB1, IGF1, STAT1, SOD1, ANXA4, BIRC2, SOD2, TNFSF8, NAE1, NCSTN, CDH13, MNAT1, DUSP1, IFT57, BNIP3L, JAK2, FAF1, IGFBP3, SCAND1, SMPD2, TP53INP1	1.476073876	0.008633975	0.0014442	0.00395368
GO:0005525~GTP binding	70	3.51229303	5.57146E-06	GNAZ, GNA14, ATL1, EIF5B, RAB1A, ARL11, ARHGAP5, DIRAS3, MTG1, ARL15, RASL10B, RALB, RAB6B, AGAP1, MX2, ARL5B, AGAP2, RHOG, GTPBP2, RAP2B, RAP2A, RABL3, RAB39B, OLA1, EEF2, ARL6, RASL12, RND3, DNAJC27, GNAQ, RAB19, NME1, RAB14, TNNI3K, RAB13, NKIRAS1, GPN2, ADSS, RAB3C, GNAI2, MRAS, FKBP4, RRAGA, RTKN, ARF6, RRAGB, KRAS, LANCL2, RAB11B, RAB11A, RHOBTB1, SCG5, TRAF7, ERCC3, EHD3, GIMAP2, RAB2A, GIMAP4, SRP54, GNAO1, PCK2, RAB33A, RAB33B, RERG, RAB32, RAB31, RAB30, RAB37, RAB22A, RHEB, FPGT	1.72897214	0.007332901	0.007332901	0.00911446
GO:0005794~Golgi apparatus	140	7.02458605	7.09567E-06	SGMS2, PITPNB, TRAPPC2L, SGMS1, IL15, RAB1A, TAPBP, CUL3, G2E3, PSKH1, PICALM, UBXN2B, ST3GAL4, CREB3L4, NCALD, TMEM22, BICD2, YIF1A, GLCE, GCC1, TNKS2, MGAT1, PNPLA8, RND3, CD36, ATP2C1, CHPF, VAMP7, BACE1, RAB14, RAB13, EXT1, TRAPPC3, GCNT3, NAPG, CNIH, SNX1, RER1, MYEF2, RRAGA, ARF6, PPT1, LMAN1, OCRL, PAQR3, MST4, RRAGB, GAD2, ARPC2, STX16, SLC30A5, B3GNT2, OLFM3, STX11, STX10, SRGN, GAL3ST1, B4GALT4, SLC30A7, MGAT4B, GABARAPL2, MGAT4A, ST6GAL1, BECN1, TAF7, RAB33B, TMEM115, FAM198B, DUSP26, GOLGA7B, YIPF5, FPGT, NDST3, FGF7, NDST1, ATL1, GNPAT1, GJA1, GOLGA7, ST6GALNAC3, AP1S2, CHST10, CREG2, TRAPPC6B, CHST11, CHST13, GKAP1, RAB6B, JAKMIP2, PLCB2, STX6, WBSCR17, CHST2, SACM1L, CHST1, ZDHHC17, PSEN1, CHST7, PSEN2, ARCN1, TNNI3K, WASL, WDR44, PRNP, TRAPPC10, GALNT2, GALNT1, AP1M1, FUT9, GANAB, HS3ST1, GALNT4, NUFIP2, SEC14L1, GLIPR2, TMED7, SLC35B3, PLA2G12A, SLC35B4, RAB11A, INPP5E, AATF, FIBIN, RNF122, SNAP25, GALNT12, HPGDS, RAB2A, ICA1, SELM, B3GALT2, HS3ST3A1, B3GALT1, SOD3, NCSTN, CSGALNACT1, RAB30, LARGE, TOM1L1, IFT57, COG1	1.433069807	0.004297822	0.004297822	0.01049588
GO:0007264~small GTPase mediated signal transduction	61	3.06071249	1.26792E-05	SHOC2, RASGEF1C, RAB1A, RGL1, ARL11, ARHGAP5, DIRAS3, RASL10B, RALB, RAPGEF5, RAB6B, SHC1, SHC3, AGAP1, ARL5B, AGAP2, RHOG, GTPBP2, RAP2B, RAP2A, RABL3, RAB39B, ARL6, RASL12, ELMO1, DNAJC27, RND3, RAB19, GNB1, KRIT1, COL1A2, RAB14, SIAH2, RAB13, NKIRAS1, USP8, RAB3C, GRAP, MRAS, RTKN, ARF6, KRAS, ROPN1B, SOS2, RAB11B, RHOBTB1, RAB11A, CDC42EP4, RAB2A, IGF1, VAV2, RAB33A, RAB33B, RERG, RAB32, CDH13, RAB31, RAB30, RAB37, RAB22A, RHEB	1.762605863	0.050476457	0.007371972	0.02361317
GO:0032561~guanyl ribonucleotide binding	70	3.51229303	1.40754E-05	GNAZ, GNA14, ATL1, EIF5B, RAB1A, ARL11, ARHGAP5, DIRAS3, MTG1, ARL15, RASL10B, RALB, RAB6B, AGAP1, MX2, ARL5B, AGAP2, RHOG, GTPBP2, RAP2B, RAP2A, RABL3, RAB39B, OLA1, EEF2, ARL6, RASL12, RND3, DNAJC27, GNAQ, RAB19, NME1, RAB14, TNNI3K, RAB13, NKIRAS1, GPN2, ADSS, RAB3C, GNAI2, MRAS, FKBP4, RRAGA, RTKN, ARF6, RRAGB, KRAS, LANCL2, RAB11B, RAB11A, RHOBTB1, SCG5, TRAF7, ERCC3, EHD3, GIMAP2, RAB2A, GIMAP4, SRP54, GNAO1, PCK2, RAB33A, RAB33B, RERG, RAB32, RAB31, RAB30, RAB37, RAB22A, RHEB, FPGT	1.68371109	0.018421943	0.009253788	0.02302474
GO:0019001~guanyl nucleotide binding	70	3.51229303	1.40754E-05	GNAZ, GNA14, ATL1, EIF5B, RAB1A, ARL11, ARHGAP5, DIRAS3, MTG1, ARL15, RASL10B, RALB, RAB6B, AGAP1, MX2, ARL5B, AGAP2, RHOG, GTPBP2, RAP2B, RAP2A, RABL3, RAB39B, OLA1, EEF2, ARL6, RASL12, RND3, DNAJC27, GNAQ, RAB19, NME1, RAB14, TNNI3K, RAB13, NKIRAS1, GPN2, ADSS, RAB3C, GNAI2, MRAS, FKBP4, RRAGA, RTKN, ARF6, RRAGB, KRAS, LANCL2, RAB11B, RAB11A, RHOBTB1, SCG5, TRAF7, ERCC3, EHD3, GIMAP2, RAB2A, GIMAP4, SRP54, GNAO1, PCK2, RAB33A, RAB33B, RERG, RAB32, RAB31, RAB30, RAB37, RAB22A, RHEB, FPGT	1.68371109	0.018421943	0.009253788	0.02302474
GO:0030145~manganese ion binding	36	1.80632213	1.64306E-05	FHIT, GALNT2, GALNT1, DICER1, GALNT4, EPT1, PPM1B, EXTL2, ACVR1C, ARG2, REXO2, IDH1, DYRK2, B3GNT2, PPP4C, GALNT12, B4GALT4, PPTC7, NUDT18, B3GALT2, NUDT12, B3GALT1, WBSCR17, IDH3B, PCK2, PPP1CC, XPNPEP1, RIMKLA, SOD2, LAP3, PPM1D, ATP2C1, PPM1K, BMPR1B, PPP5C, BMPR1A	2.147903052	0.021471175	0.007208902	0.02687695

Supplemental Table 1: (vi) H3K4me3-enriched genes in the Baboon SVZ: Gene Ontology by DAVID for H3K4me3-enriched genes in NBs

Over-represented Functional categories of target genes in neuroblast cells identified by Gene Ontology enrichment analysis using DAVID.								
Term	Count	%	PValue	Genes	Fold Enrichment	Bonferroni	Benjamini	FDR
GO:0003735~structural constituent of ribosome	14	5.76131687	5.5574E-07	MRPS17, RPSA, MRPS16, MRPL41, MRPS11, RPL10L, MRPL10, MRPS18C, RPS29, RPLP0, RPL7L1, RPL12, RSL24D1, MRP63	6.010648148	0.000197267	0.000197267	0.00076167
GO:0030529~ribonucleoprotein complex	24	9.87654321	9.258E-07	ACTB, RPSA, MRPS17, MRPS16, MRPL41, SNRPD3, MRPS11, ZCRB1, SF3B4, RPL10L, HNRNPL, MRPL10, IMP3, MRPS18C, RPS29, RPLP0, RPL7L1, HNRNPD, WDR12, RSL24D1, RPL12, API5, HSPA8, MRP63	3.290972483	0.000271223	0.000271223	0.00123269
GO:0005840~ribosome	15	6.17283951	2.0801E-06	MRPS17, RPSA, MRPS16, MRPL41, MRPS11, RPL10L, MRPL10, IMP3, MRPS18C, RPS29, RPLP0, RPL7L1, RPL12, RSL24D1, MRP63	4.926891944	0.000609284	0.000304688	0.0027696
GO:0033279~ribosomal subunit	11	4.52674897	1.2912E-05	RPL10L, RPSA, MRPL10, MRPS17, MRPS16, MRPS18C, MRPL41, RPS29, RPLP0, RPL7L1, MRPS11	6.068801796	0.003776173	0.001260312	0.0171912

Supplemental Table 2: (i_a) GBM1 RNA-Seq and H3K4me3 ChIP-Seq

Overlap between GBM1 RNA-Seq and ChIP-Seq												
Total=367 genes												
CXCR4	CD28	GGPS1	NDNF	NPVF	FMO2	LCN9	SPRYD4	SKA2	OR14J1	LDHAL6B	KIR3DL2	MDM2
TCEANC2	F10	EIF5A2	PRIM2	LRRC57	HFE	ITK	PAX9	CENPM	SLC19A2	TMEM196	PTGFR	WDR5B
BRCA1	SLC16A4	FAM83C	ZNF805	TPH2	DTL	NDC80	SCML2	SAR1B	GNRH2	NAA38	SSR3	ZNF345
FOXP3	LILRA1	ADAMTS20	IF16	PATE4	LPAR6	MYC	PIWIL1	MITF	LYRM2	CLDN14	TMEM252	RPS27L
FPGT	OR13A1	DCAF8L2	CAV3	TREML1	CCR5	DTWD2	CYP4V2	RNF14	GK2	FCF1	MTF1	UGDH
CDK1	SYNJ2BP	TLR3	BVES	TSHR	SEMA5A	OIP5	LEPR	TMEM39A	ATF3	CTSC	DCLRE1C	OSM
SNAPC1	PLG	IGJ	SPP1	TMC7	WDR55	OR6C4	EGR2	METTL20	DPP4	APOBEC3A	FCGR2B	GIN3
METTL21A	CRIP1	RGS2	PHOSPHO2	PCP2	EBLN2	TWSG1	FKBP10	KIAA0355	SDR42E1	TCF19	PPP3R2	FMO3
GNB4	DTD2	COL3A1	CD2	NFE2	THAP6	RHBG	PEX13	ARL6IP6	TRMT10B	H2BFWT	RPL7L1	ACTL9
MAD2L1	GJC1	DUSP19	HPGDS	AMICA1	CCL3	CCL11	ACVR1C	FAM126B	FKBP14	PRSS37	DUOXA2	TAS2R39
HP	CCDC42	FAM105A	FCAR	SLC6A4	IRAK4	IDO1	TM4SF18	OR5K1	LRRC69	CYP4F12	COMMD2	TAS2R13
CLCA1	HIST1H1D	OR13C8	SLC30A7	SLCO1B3	BET1	METTL18	TMEM106A	RAD1	CXCL11	STAC3	RAB27A	SERPINH1
IL23A	SLC25A31	LSM5	EDA2R	NRP1	HS3ST3A1	OGN	UTP23	TM4SF20	SMC4	PDCD1	SNAP23	AKAP2
STOML3	RABL5	GIN34	GPR1	TNFSF10	MSRB3	FAM83B	GOSR1	ABCC2	TAS2R46	LYZ	TNFAIP8	DEPDC1B
TRIM45	CASP4	GPR34	WDR38	NUDT7	LYAR	PDP2	GPHA2	ZNF177	ODAM	OLFML3	NPSR1	PIGW
CENPL	HIST1H2BH	RIT1	CHMP4C	SPEM1	WSCD1	TNFSF8	FOXA3	RS1	SYNRG	POU5F1	CMBL	ZNF501
FAM161A	HIST1H2BO	KRTAP4-1	XCL1	METTL15	PTPN22	DCAF4L2	DFFA	MAVS	KCNMB1	CLDN1	LECT2	NEUROG2
IFNAR1	ATPBD4	GNRHR2	RBM34	LY6G6C	ST8SIA4	METAP2	TTR	SPINK9	ZBTB26	DBR1	PDSS2	NR1I2
TLR5	MAGEB10	TSSK1B	CCR6	CDK6	F7	RHOJ	BST2	CER1	IL15	LAMB2	MC5R	GLYAT
SPATS2L	JRKL	CLEC18A	CXCR3	P2RY1	RHOH	TACR3	OTX2	FAM200A	TMEM27	HNF1B	INMT	SCG2
WSB1	RNASE4	ELF5	AQP3	QPCTL	CCDC172	ADAT1	CYP2C18	CYP4F22	SNX20	IL1B	OR1F1	LEPRE1
PROS1	NEK2	IL20RB	METTL21B	IL1RAP	LCA5L	FZD3	SGMS2	ACP5	NANP	REN	PCDHB1	HNMT
TBCCD1	OR6X1	ZNF250	SLC35E1	OR1Q1	OPA3	ABCC13	QTRTD1	RHOJ	DCAF16	LRAT	OR2D3	GPR85
ITGA2	FAM115C	TM4SF19	NAIF1	IL3	MAGOHB	COMMD6	CD3G	RIOK2	ANGPT1	BARX2	DNAJC24	ASPM
MME	TFDP2	FBXO32	TFPI	MGARP	TNFAIP6	FAM20C	TMOD1	IL17F	TMEM45B	EDNRA	NKX3-2	KLHL28
GADD45B	PRL	PAPOLB	DPEP1	MAGEC2	TCF21	COL1A2	GPX5	OR52W1	KRIT1	FNDC8	JUN	HMGB1
FCGR2A	ARL11	GRAP2	BBS5	GPX6	LXN	VRTN	TOR1AIP2	METTL2A	OR2A2	IRF3	OR10Q1	CDNF
SLC31A1	EZH2	LBX1	GIPC3	SREK1IP1	PI15	AGR2	CES5A	NAT2	GLYATL3	SLC25A21	SERPINC1	EYA3
CXCL9	SNAI2	MTAP										

Supplemental Table 2: (i_b) GBM1 RNA-Seq and H3K4me3 ChIP-Seq

Over-represented Functional categories of overlap genes in GBM1 RNA-Seq and ChIP-Seq, identified by Gene Ontology enrichment analysis using DAVID.									
Term	Count	%	Pvalue	Genes	Fold Enrichment	Bonferroni	Benjamini	FDR	
GO:0009611--response to wounding	33	9.4017094	3.44955E-08	CCL3, NRP1, COL3A1, CXCL9, TLR3, IL15, TLR5, CXCL11, IL23A, LAMB2, CXCR4, IL1RAP, P2RY1, IL17F, SERPINC1, IL1B, RAB27A, SPP1, SCG2, F10, LYZ, ITGA2, F7, IDO1, PLG, CCL11, TNFAIP6, IL20RB, CCR5, TFPI, TREML1, PROS1, PATE4	3.051845775	6.71261E-05	6.71261E-05	5.9119E-05	
GO:0050878--regulation of body fluid levels	14	3.98860399	5.93052E-06	NFE2, F10, COL3A1, ITGA2, F7, PLG, PDSS2, P2RY1, SERPINC1, TFPI, TREML1, PROS1, AGR2, RAB27A	4.866687224	0.011474485	0.005753795	0.01016339	
GO:0005125--cytokine activity	16	4.55840456	7.0042E-06	CER1, IL3, CCL3, CXCL9, IL15, CXCL11, TNFSF8, CCL11, OSM, TNFSF10, IL23A, IL17F, IL1B, XCL1, SPP1, SCG2	4.161217949	0.003328458	0.003328458	0.01001609	
GO:0006955--immune response	33	9.4017094	1.11981E-05	MAVS, CCL3, CXCL9, TLR3, ACP5, HFE, IL15, TLR5, CXCL11, PDCD1, IL23A, LILRA1, CXCR4, IL1RAP, IL1B, RAB27A, CD28, IL3, BST2, IGJ, TNFSF8, CCL11, DCLRE1C, OSM, TNFSF10, CCR6, IL20RB, FCGR2B, FCAR, CCR5, CTSC, XCL1, TREML1	2.344171393	0.021555813	0.007237526	0.01918978	
GO:0007599--hemostasis	12	3.41880342	1.2085E-05	F10, NFE2, P2RY1, COL3A1, TFPI, SERPINC1, ITGA2, F7, TREML1, PROS1, PLG, RAB27A	5.44605475	0.023243116	0.005862125	0.02070951	
GO:0005615--extracellular space	32	9.11680912	1.32318E-05	CER1, TWSG1, CCL3, LEPR, COL3A1, CXCL9, HP, IL15, CXCL11, TTR, IL23A, REN, IL17F, SERPINC1, IL1B, ANGPT1, LECT2, SCG2, RS1, SPP1, IL3, CLCA1, ADAMTS20, LYZ, PLG, TNFSF8, CCL11, OSM, TNFSF10, COL1A2, TFPI, XCL1	2.360139638	0.003816718	0.003816718	0.01757953	

Supplemental Table 2: (ii_a) GBM2 RNA-Seq and H3K4me3 ChIP-Seq

Overlap between GBM2 RNA-Seq and ChIP-Seq												
Total=451 Genes												
DPY30	TYMS	GNG11	ZNF22	TM4SF18	CD63	GRAP2	GPR1	HIST1H2BK	FBXO8	PRKX	LPAR6	LXN
CXCR4	ITK	RHOJ	LBR	KLF12	NCBP2	IFT52	DMTF1	RPA3	RFC3	DRAM1	PCDHB1	HBP1
LCORL	PROS1	IRF2	STT3A	ADAMTS20	SF3B1	G3BP1	PAPD4	TFPI	ILF2	ZBTB26	GXYLT1	TCF19
HS3ST3A1	CDH11	FGF10	RNF122	THG1L	NLGN1	TMEM39A	DERL2	DPEP1	GPX7	IL1RAP	CETN2	NOTCH2
CCNB1	NDC80	ZMYM4	DEPDC1B	CD9	FAM172A	MNS1	BIRC2	STX10	SOX21	GABPB1	CCR5	TAL2
ANAPC4	ITGA2	RNF139	ZNF473	CSE1L	DCP2	HNMT	WDR38	ISOC1	ZC3H7A	CMTM6	SNRPD3	CYP4F12
LYAR	MYC	KBTBD2	TFDP2	VMAC	SHFM1	KPNA2	PLS3	SEC11A	THOC2	IL12A	TMEM179B	RFC5
WSCD1	OIP5	PDIA6	FHL3	CDC20	RIT1	TRA2B	INTS12	TAS2R13	HIST1H2AE	NXT1	GMNN	COL1A2
LRRN1	CCNA2	HIST1H3D	GINS3	WFDC13	TMOD1	HS3ST1	AGA	LAMB2	ADIG	MGARP	SEMA5A	ITGB5
LHFPL2	RPL27	NONO	LAPTM4A	SMAD4	ARHGFE6	ORAI3	CER1	RPS27L	TNFSF10	SNAPIN	HIATL1	GPR75
BRCA1	SP4	MAGOH	FCGR2B	OSGEPL1	TSSK1B	FAM76B	PTGER4	PDCD1	THBS3	ANGPT1	NLGN4Y	RNASE4
STX8	DUSP10	NREP	TOP3B	DKC1	CLEC18A	TRAM1	TMEM89	OLFML3	MRPS17	MX2	RFX4	NEK2
FPGT	TWSG1	GJC1	CTDSPL2	PPT1	DAP	NUP37	NUP35	FAM118B	SDR42E1	DPH5	DDR1	GINS4
CDK1	BANF1	PTRH2	FBXO22	ELMOD2	MCM6	ZNF24	CCDC167	RASSF8	NECAP2	RXRG	RPF1	CKLF
MLF1	SLC25A24	CCDC42	TAGLN2	RNF5	FABP12	ATF1	XCL1	LSM2	LRRC69	SREK1IP1	SNRNP40	CCDC65
IPP	ZNF287	ADNP	EZH2	KLHL25	GNPAT	ARL6IP6	IRAK1BP1	LAP3	CNN3	SS18	DBR1	TP53INP1
RHOH	EIF2AK2	UST	CNKS3	LIX1	TCP11L2	ZCCHC9	GGH	PPIC	CXCL11	IKZF2	EBLN2	XPO1
IGSF11	METTL18	EIF3E	COMMD2	MCL1	SNX24	DHX15	ZC4H2	RAB9A	MYL6	MYD88	TMSB4X	GPR34
HIST1H2BJ	CBWD1	KDEL2	PGAP2	GABPA	PTPLAD2	AAMDC	FAM126A	ZNF671	SMC4	CBFB	CHAC2	HPGDS
RP9	UNC119B	IGFBP3	IPO8	TLR3	MIOS	NDNF	PIIH	TREML1	PLXNC1	ASPM	EMILIN3	ORMDL1
ARHGAP15	MT1E	SFT2D2	PPP1R8	TPAR2	IFT57	PXMP2	PHC1	PIGC	OGG1	SERPINH1	REXO2	IMPACT
DUSP18	IFT172	DEK	ARF4	CDC7	IL20RB	GANC	CYP4F22	TSHR	LY6G6C	LSM6	CCL3	SMCHD1
LCA5L	CLIC4	SUCLG2	SH3GLB1	ISG15	NR112	PRIM2	ACP5	HCRT	IFIT2	RAP1B	THAP6	ZNF790
MAD2L1	FMO3	HIST1H1D	USP16	CLDN12	DNAJC24	IFI16	GTF2A2	CYBRD1	MAP2K6	ATRAID	IRAK4	EDA2R
NFE2L2	GBE1	SPRED2	SCML2	COL3A1	NKX3-2	LSM3	RHOV	TRAFD1	PPP1CC	SRSF10	TULP3	AMICA1
IFI27	CREB1	KCTD3	EFCAB7	RBM12	ATP5E	MOSPD1	NUPL2	TRIM36	FAM181B	CALU	SNAI2	FAM5C
HP	GLT8D1	COMMD6	WDR5B	SCYL2	TM4SF19	C1GALT1C1	RPGRIP1L	SLC16A1	CKS1B	SAP30	ATP6V0E1	TIA1
MAGOHB	TMEM50B	CASP4	CBR4	CRYGD	STK38	ZNF177	SDHAF2	PPM1D	SNRPE	TNFAIP8	RFTN2	TRIM22
TNFAIP6	FAIM	HIST1H2BH	RPS13	BST2	TXNDC17	FTSJD1	METTL21B	VGLL4	TAS2R46	ANKRD50	MAT2A	UBE2E3
SOX9	TNFSF8	HIST1H2BO	TMEM252	CDO1	RPL26L1	PHOSPHO2	PDLIM4	SLC19A2	CDK6	CXCL9	USP3	GJA1
IL23A	TMEM126A	ATPBD4	TMPO	IFI6	SMARCE1	CCDC90B	ZNF501	PRCP	P2RY1	CHIC2	PSMB9	TIMM8B
CENPL	MFN1	CHCHD2	ZDHHC4	ID4	PAPOLB	CD2	ARFIP1	NBN	SNRPD1	CA2	CYP2R1	TMEM231
DTL	EWSR1	RBBP7	FKBP10	CENPM	RBBP8	CNIH4	PCNA	CCDC42B	MCM4	ILK	MRPL53	SKA2
SLC16A4	ZBED4	FAM206A	CGGBP1	BTG3	FBP1	SLC35D1	LMO2	UBTD2	LIPT2	TCEA1	KCNMB1	HFE
HIST1H2AC	CRYBA2	EGR2	UBA3	ZNF200	EXTL2	NCAPG2	PHKA1					

Supplemental Table 2: (ii_b) GBM2 RNA-Seq and H3K4me3 ChIP-Seq

Over-represented Functional categories of overlap genes in GBM2 RNA-Seq and ChIP-Seq, identified by Gene Ontology enrichment analysis using DAVID.								
Term	Count	%	PValue	Genes	Fold Enrichment	Bonferroni	Benjamini	FDR
GO:0005694--chromosome	33	7.5342466	1.24455E-07	XPO1, HIST1H2AC, NBN, NEK2, HIST1H2AE, BANF1, RPA3, HIST1H2BO, HIST1H2BK, OIP5, EIF3E, PRIM2, HIST1H2BJ, SKA2, NUP37, CENPM, CENPL, HIST1H1D, SMCHD1, CREB1, HIST1H2BH, NDC80, BIRC2, BRCA1, SMC4, RFC5, RFC3, MAD2L1, SMARCE1, PCNA, HIST1H3D, TMPO, TOP3B	2.892648471	4.4305E-05	4.4305E-05	0.000170644
GO:0005654--nucleoplasm	48	10.958904	4.36027E-07	NCBP2, CKS1B, XPO1, NBN, MCL1, STK38, SNRPD3, SHFM1, EZH2, SNRPD1, ATF1, RPA3, SAP30, SF3B1, DKC1, OIP5, EIF3E, PRIM2, GTF2A2, TFDP2, TCEA1, MYC, CCNA2, CDC7, CDK1, CREB1, GMNN, MAGOH, ANAPC4, SMAD4, INTS12, CDC20, IFI16, RBBP7, PPP1CC, MCM4, BRCA1, MCM6, RFC5, CCNB1, RFC3, PPIH, SMARCE1, PPP1R8, PCNA, OGG1, KPNA2, SNRPE	2.194381854	0.000155213	7.76098E-05	0.00059785
GO:0022402--cell cycle process	35	7.9908676	3.4505E-06	NBN, NEK2, CETN2, RHOV, MLF1, NCAPG2, OIP5, ILK, MNS1, NUP37, SKA2, HBP1, USP16, CCNA2, MYC, ASPM, MAP2K6, CDC7, CDK1, ANAPC4, CDK6, NDC80, CDC20, BRCA1, SMC4, RBBP8, PSMB9, CCNB1, NOTCH2, PPM1D, MAD2L1, IL12A, ID4, KPNA2, TP53INP1	2.408096837	0.006736754	0.006736754	0.005918009
GO:0044427--chromosomal part	27	6.1643836	3.63844E-06	XPO1, HIST1H2AC, NBN, HIST1H2AE, RPA3, HIST1H2BO, HIST1H2BK, OIP5, EIF3E, PRIM2, HIST1H2BJ, SKA2, NUP37, CENPM, CENPL, HIST1H1D, CREB1, HIST1H2BH, NDC80, BIRC2, SMC4, RFC5, RFC3, MAD2L1, PCNA, HIST1H3D, TMPO	2.820434449	0.001294448	0.000431669	0.004988674
GO:0007049--cell cycle	42	9.5890411	8.3887E-06	CKS1B, NBN, NEK2, CETN2, RHOV, MLF1, NCAPG2, OIP5, ILK, TFDP2, MNS1, NUP37, HBP1, SKA2, USP16, MYC, CCNA2, MAP2K6, ASPM, CDC7, CDK1, GMNN, ANAPC4, CDK6, NDC80, CDC20, PPP1CC, BRCA1, SMC4, PSMB9, MCM6, RBBP8, CCNB1, NOTCH2, PPM1D, MAD2L1, DMTF1, UBA3, IL12A, ID4, KPNA2, TP53INP1	2.103981514	0.016299231	0.008183097	0.014387002

Supplemental Table 2: (iii_a) GBM1 RNA-Seq, GBM2 RNA-Seq, and H3K4me3 ChIP-Seq

Overlap among GBM1 RNA-Seq, GBM2 RNA-Seq, and ChIP-Seq						
Total=134 Genes						
CXCR4	NEK2	OLFML3	LCA5L	DNAJC24	ATPBD4	NDNF
BRCA1	TFDP2	TREML1	MAGOHB	NKX3-2	RNASE4	PRIM2
FPGT	EZH2	TSHR	TNFAIP6	SKA2	IFI16	XCL1
CDK1	WDR5B	AMICA1	LXN	CENPM	PHOSPHO2	METTL21B
MAD2L1	TMEM252	TNFSF10	TCF19	TMEM39A	CD2	TFPI
HP	ADAMTS20	LY6G6C	CYP4F12	ARL6IP6	HPGDS	DPEP1
IL23A	TLR3	CDK6	ITK	ZNF177	EDA2R	TAS2R13
CENPL	COL3A1	P2RY1	NDC80	CER1	GPR1	RPS27L
PROS1	GIN54	IL1RAP	MYC	CYP4F22	WDR38	PDCD1
ITGA2	GPR34	MGARP	OIP5	ACP5	SEMA5A	FCGR2B
FMO3	RIT1	SREK1IP1	TWSG1	RHOH	EBLN2	COMMD2
SLC16A4	TSSK1B	ASPM	METTL18	ZNF501	THAP6	SCML2
GJC1	CLEC18A	SERPINH1	TNFSF8	LAMB2	CCL3	EGR2
CCDC42	IL20RB	TNFAIP8	RHOJ	SLC19A2	IRAK4	FKBP10
HIST1H1D	TM4SF19	HFE	COMMD6	SDR42E1	HS3ST3A1	TM4SF18
CASP4	PAPOLB	DTL	COL1A2	LRRC69	LYAR	BST2
HIST1H2BH	GRAP2	LPAR6	DEPDC1B	CXCL11	WSCD1	TMOD1
HIST1H2BO	HNMT	CCR5	GIN53	SMC4	RHOH	NR112
TAS2R46	KCNMB1	ZBTB26	ANGPT1	CXCL9	PCDHB1	DBR1
SNAI2						

Supplemental Table 2: (iii_b) GBM1 RNA-Seq, GBM2 RNA-Seq, and H3K4me3 ChIP-Seq

Over-represented Functional categories of overlap genes in GBM1 RNA-seq, GBM2 RNA-seq and ChIP-Seq, identified by Gene Ontology enrichment analysis using DAVID.								
Term	Count	%	PValue	Genes	Fold Enrichment	Bonferroni	Benjamini	FDR
GO:0009611~response to wounding	17	13.3858268	2.6815E-06	CCL3, COL3A1, CXCL9, ITGA2, TLR3, CXCL11, TNFAIP6, LAMB2, IL23A, IL20RB, CCR5, CXCR4, IL1RAP, P2RY1, TFPI, TREML1, PROS1	4.132542677	0.002816959	0.002816959	0.00426397
GO:0006955~immune response	18	14.1732283	1.8769E-05	CCL3, BST2, CXCL9, ACP5, HFE, TLR3, CXCL11, PDCD1, TNFSF8, TNFSF10, IL23A, IL20RB, FCGR2B, CCR5, CXCR4, IL1RAP, XCL1, TREML1	3.360993789	0.019551057	0.009823782	0.02984117

Supplemental Table 2: (iv.) GBM1 RNA-Seq, GBM2 RNA-Seq, and Expressed ChIP-Seq

Overlap among Expressed ChIP-Seq and/or GBM1 RNA-Seq and GBM2 RNA-Seq								
Total=404 Genes								
ATPBD4	TWSG1	HMGB1	RNF14	BANF1	FAIM	ITGB5	ORMDL1	SF3B1
CDK6	WDR5B	IFNAR1	RPL7L1	BIRC2	FAM118B	KBTBD2	PAPD4	SFT2D2
CENPL	WSCD1	INMT	SAR1B	BTG3	FAM172A	KCTD3	PCNA	SH3GLB1
COMMD2	ZBTB26	IRF3	SCG2	C1GALT1C1	FAM206A	KDEL2	PDIA6	SHFM1
COMMD6	ZNF177	JUN	SGMS2	CA2	FAM5C	KLF12	PGAP2	SLC16A1
DBR1	ZNF501	KIAA0355	SLC30A7	CALU	FAM76B	KLHL25	PHC1	SLC35D1
DNAJC24	ACVR1C	KLHL28	SLC31A1	CCDC90B	FGF10	KPNA2	PHKA1	SMAD4
FKBP10	ADAT1	KRIT1	SLC35E1	CD63	FTSJD1	LAP3	PIGC	SMARCE1
GIN5A	ARL11	LRAT	SNAP23	CD9	G3BP1	LAPTM4A	PLS3	SMCHD1
GJC1	BBS5	LRRCS7	SNAPC1	CDC7	GABPA	LBR	PLXNC1	SNAPIN
GPR1	BET1	LSM5	SPATS2L	CDH11	GABPB1	LCORL	POLR3B	SNRNP40
GPR34	BVES	LYRM2	SPP1	CDO1	GANC	LHFPL2	PPIH	SNRPD1
HIST1H1D	CD3G	LYZ	SPRYD4	CETN2	GGH	LIX1	PPM1D	SNRPD3
HIST1H2BH	CHMP4C	MAGEB10	SSR3	CGGBP1	GJA1	LMO2	PPP1CC	SNRPE
HIST1H2BO	CMBL	MAVS	ST8SIA4	CHCHD2	GLT8D1	LRRN1	PPP1R8	SNX24
HNMT	CRIP1	MDM2	SYNJ2BP	CHIC2	GMNN	LSM2	PPT1	SOX9
IFI16	CTSC	METAP2	SYNRG	CKS1B	GNPAT	LSM3	PRCP	SP4
IL1RAP	CYP4V2	METTL21A	TBCCD1	CLDN12	GPR75	LSM6	PRKX	SPRED2
IRAK4	DCAF16	METTL2A	TCEANC2	CLIC4	GTF2A2	MAGOH	PTPLAD2	SS18
ITGA2	DCLRE1C	MITF	TM4SF20	CMTM6	GXYLT1	MAP2K6	PTRH2	STK38
LAMB2	DFFA	MME	TMC7	CNIH4	HBP1	MAT2A	PXMP2	STT3A
LPAR6	DTD2	MSRB3	TMEM106A	CNN3	HIATL1	MCL1	RAB9A	STX8
LXN	DTDW2	MTAP	TOR1AIP2	CREB1	HIST1H2AC	MCM4	RAP1B	SUCLG2
LYAR	DUSP19	MTF1	TRIM45	CSE1L	HIST1H2AE	MFN1	RASSF8	TAL2
METTL18	EIF5A2	NAIF1	TRMT10B	CTDSPL2	HIST1H2BJ	MIOS	RBBP7	TCEA1
METTL21B	EYA3	NANP	UGDH	CYBRD1	HIST1H2BK	MLF1	RBM12	TCP11L2
NEK2	FAM115C	NRP1	UTP23	DCP2	ID4	MNS1	REXO2	THBS3
P2RY1	FAM126B	NUDT7	WDR55	DDR1	IFI6	MOSPD1	RFC5	THOC2
PHOSPHO2	FAM161A	OPA3	WSB1	DEK	IFIT2	MRPL53	RFTN2	TIA1
PRIM2	FAM200A	PATE4	ZNF250	DERL2	IFT172	MRPS17	RFX4	TIMM8B
RHOA	FAM20C	PDP2	ZNF345	DHX15	IFT52	MT1E	RNF139	TMEM126A
RIT1	FBXO32	PDSS2	ZNF805	DKC1	IFT57	MYL6	RP9	TMEM231
RPS27L	FCAR	PEX13	AAMDC	DMTF1	IGSF11	NBN	RPA3	TMEM50B
SDR42E1	FCF1	PIGW	ADNP	DPH5	IKZF2	NCAPG2	RPF1	TMPO
SEMA5A	FKBP14	POU5F1	ANAPC4	DPY30	ILF2	NCBP2	RPGRIP1L	TMSB4X
SKA2	FZD3	QPCTL	ANKRD50	DUSP10	ILK	NECAP2	RPL26L1	TP53INP1
SLC16A4	GADD45B	QTRTD1	ARF4	DUSP18	IMPACT	NFE2L2	RPL27	TRA2B
SLC19A2	GGPS1	RABL5	ARFIP1	EFCAB7	INTS12	NLGN1	RPS13	TRAFD1
SREK1IP1	GNB4	RAD1	ARHGEF6	EIF2AK2	IPO8	NONO	RXRG	TRAM1
TFDP2	GNRH2	RBM34	ATF1	EIF3E	IPP	NOTCH2	SAP30	TRIM22
THAP6	GNRHR2	RGS2	ATP5E	ELMOD2	IRAK1BP1	NREP	SCYL2	TULP3
TMOD1	GOSR1	RHBG	ATP6V0E1	EWSR1	IRF2	NUP35	SDHAF2	UBA3
TNFSF10	GPR85	RIOK2	ATRAID	EXTL2	ISOC1	OGG1	SEC11A	UBE2E3
UBTD2	USP3	VGLL4	XPO1	ZC3H7A	ZCCHC9	ZNF22	ZNF287	ZNF790
USP16	UST	VMAC	ZBED4	ZC4H2	ZMYM4	ZNF24	ZNF671	

Supplemental Table 2: (iv_b) GBM1 RNA-Seq, GBM2 RNA-Seq, and Non-expressed ChIP-Seq

Overlap among Non-expressed ChIP-Seq and/or GBM1 RNA-Seq and GBM2 RNA-Seq								
Total=280 Genes								
ACPS5	FMO3	SCML2	CCL11	GPX6	OR13A1	SPEM1	DAP	PPIC
ADAMTS20	FPGT	SERPINH1	CCR6	H2BFWT	OR13C8	SPINK9	DRAM1	PSMB9
AMICA1	GINS3	SMC4	CD28	HNF1B	OR14J1	STAC3	EMILIN3	PTGER4
ANGPT1	GRAP2	SNAI2	CDNF	IDO1	OR1F1	STOML3	FABP12	RBBP8
ARL6IP6	HFE	TAS2R13	CESS5A	IGJ	OR1Q1	TACR3	FAM126A	RFC3
ASPM	HP	TAS2R46	CLCA1	IL15	OR2A2	TAS2R39	FAM181B	RNF122
BRCA1	HPGDS	TCF19	CLDN1	IL17F	OR2D3	TCF21	FBP1	RNF5
BST2	HS3ST3A1	TFPI	CLDN14	IL1B	OR52W1	TLR5	FBXO22	SLC25A24
CASP4	IL20RB	TLR3	CXCR3	IL3	OR5K1	TMEM196	FBXO8	SOX21
CCDC42	IL23A	TM4SF18	CYP2C18	JRKL	OR6C4	TMEM27	FHL3	SRSF10
CCL3	ITK	TM4SF19	DCAF4L2	KIR3DL2	OR6X1	TMEM45B	GBE1	STX10
CCR5	KCNMB1	TMEM252	DCAF8L2	KRTAP4-1	OSM	TPH2	GNG11	TAGLN2
CD2	LCA5L	TMEM39A	DPP4	LBX1	OTX2	TTR	GPX7	THG1L
CDK1	LRR69	TNFAIP6	DUOXA2	LCN9	PAX9	VRTN	HCRT	TMEM179B
CENPM	LY6G6C	TNFAIP8	EDNRA	LDHAL6B	PCP2	ADIG	HIST1H3D	TMEM89
CER1	MAD2L1	TNFSF8	ELF5	LECT2	PI15	AGA	HS3ST1	TOP3B
CLEC18A	MAGOHB	TREML1	F10	LEPR	PIWIL1	ARHGAP15	IFI27	TRIM36
COL1A2	MGARP	TSHR	F7	LEPRE1	PLG	CBFB	IGFBP3	TXNDC17
COL3A1	MYC	TSSK1B	FAM105A	LILRA1	PPP3R2	CBR4	IL12A	TYMS
CXCL11	NDC80	WDR38	FAM83B	MAGEC2	PRL	CBWD1	ISG15	UNC119B
CXCL9	NDNF	XCL1	FAM83C	MC5R	PRSS37	CCDC167	LIPT2	WFDC13
CXCR4	NKX3-2	ABCC13	FCGR2A	METTL15	PTGFR	CCDC42B	LPAR2	ZDHHC4
CYP4F12	NR1I2	ABCC2	FMO2	METTL20	PTPN22	CCDC65	MCM6	ZNF200
CYP4F22	OIP5	ACTL9	FNDC8	NAA38	RAB27A	CCNA2	MX2	ZNF473
DEPDC1B	OLFML3	AGR2	FOXA3	NAT2	REN	CCNB1	MYD88	
DPEP1	PAPOLB	AKAP2	FOXP3	NEUROG2	RS1	CDC20	NLGN4Y	
DTL	PCDHB1	APOBEC3A	GIPC3	NFE2	SERPINC1	CHAC2	NUP37	
EBLN2	PDCD1	AQP3	GK2	NPSR1	SLC25A21	CKLF	NUPL2	
EDA2R	PROS1	ATF3	GLYAT	NPVF	SLC25A31	CNKSR3	NXT1	
EGR2	RHOH	BARX2	GLYATL3	ODAM	SLC6A4	CRYBA2	ORAI3	
EZH2	RHOJ	CAV3	GPHA2	OGN	SLCO1B3	CRYGD	OSGEPL1	
FCGR2B	RNASE4	CCDC172	GPX5	OR10Q1	SNX20	CYP2R1	PDLIM4	