

Supplementary information files

Genome-wide Mapping Reveals Conservation of Promoter DNA

Methylation Following Chicken Domestication

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Supplemental Figure Legends

Figure S1. Bisulfite-sequencing validation of methylated genes detected by meDIP-chip. (A) Relative methylation scores of the proximal promoter of ENSGALT0000023309 and ENSGALT0000020243. (B) Bis-seq results of the proximal promoter of ENSGALT0000023309. (C) Bis-seq results of the proximal promoter of ENSGALT0000020243. The black circle represents the methylated CpG site and the white circle represents the unmethylated site.

Figure S2. Bisulfite-sequencing validation of unmethylated genes detected by meDIP-chip. (A) Relative methylation scores of the proximal promoter of ENSGALT0000016542 and ENSGALT0000008838. (B) Bis-seq results of the proximal promoter of ENSGALT0000016542. (C) Bis-seq results of the proximal promoter of ENSGALT0000008838.

Figure S3. Bisulfite-sequencing validation of CHMGs identified by meDIP-seq. (A) CAC1B. (B) PTPRU. (C) SCMH1. (D) Q5MB12.

Figure S4. Bisulfite-sequencing validation of CLMGs identified by meDIP-seq. (A) SLC25A39. (B) CDX4. (C) T22D1. (D) MAT3.

Figure S5. Clustering of promoter DNA methylation of all 19 chickens. The DNA methylation level was represented by relative methylation scores, and the RMSs of all genes were used for unsupervised hierarchical clustering.

Figure S6. Validation of differentially methylated genes which proved to be false

positive between various chicken breeds by bis-seq. Differentially methylated genes between the RJF and AA: (A) ENSGALT00000028623; (B) ENSGALT00000014058. Differentially methylated genes between the AA and WL: (C) ENSGALT0000000424; (D) ENSGALT00000031378; (E) ENSGALT00000010200; (F) ENSGALT00000036126; (G) ENSGALT00000040845.

Figure S7. Heatmap shows comparison of DNA methylation level among chicken breeds for 795 individual CpG sites selected randomly from the genome. The DNA methylation level was determined by sequencing 8 clones of bisulfite-treated DNA. Unmethylated CpG sites are shown in white; Methylated CpG sites are shown in red, with color intensity proportional to the methylation level; unavailable data is shown in gray. The pairwise correlation coefficient table shows the similarity of DNA methylation between chicken breeds.

Figure S8. Relative methylation scores of promoter of *TSHR*, *VSTM2A* and *GHR* in the RJF, CH, AA and WL by meDIP-chip.

Figure S1

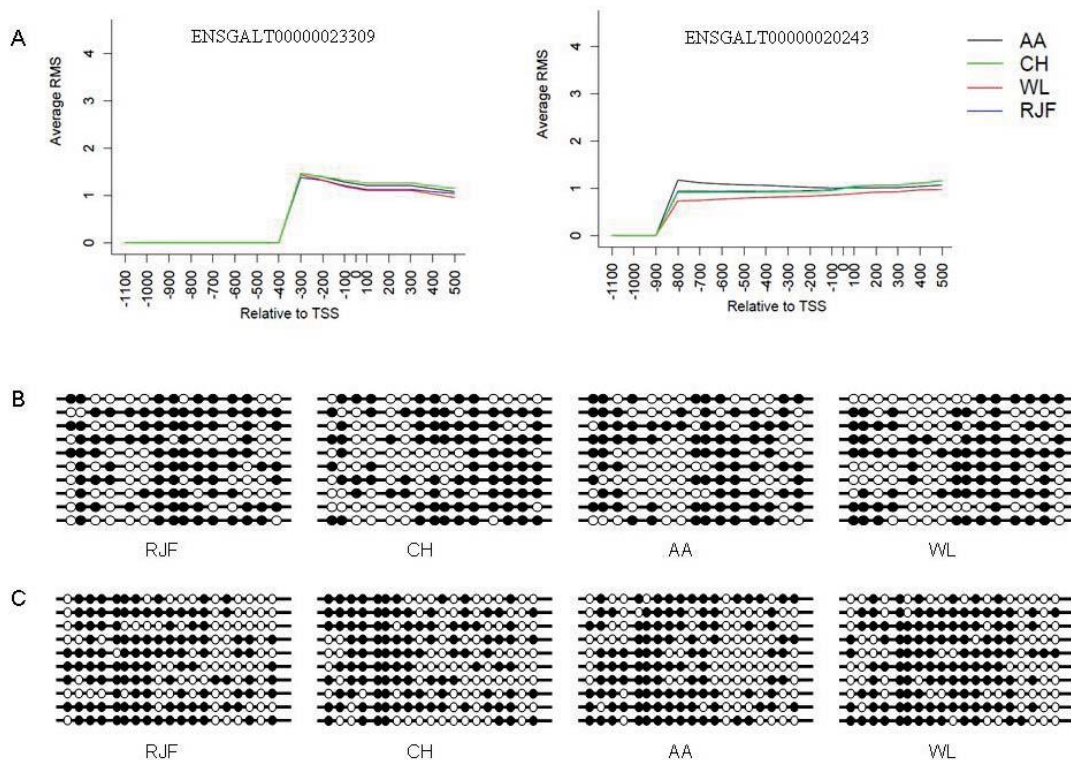


Figure S2

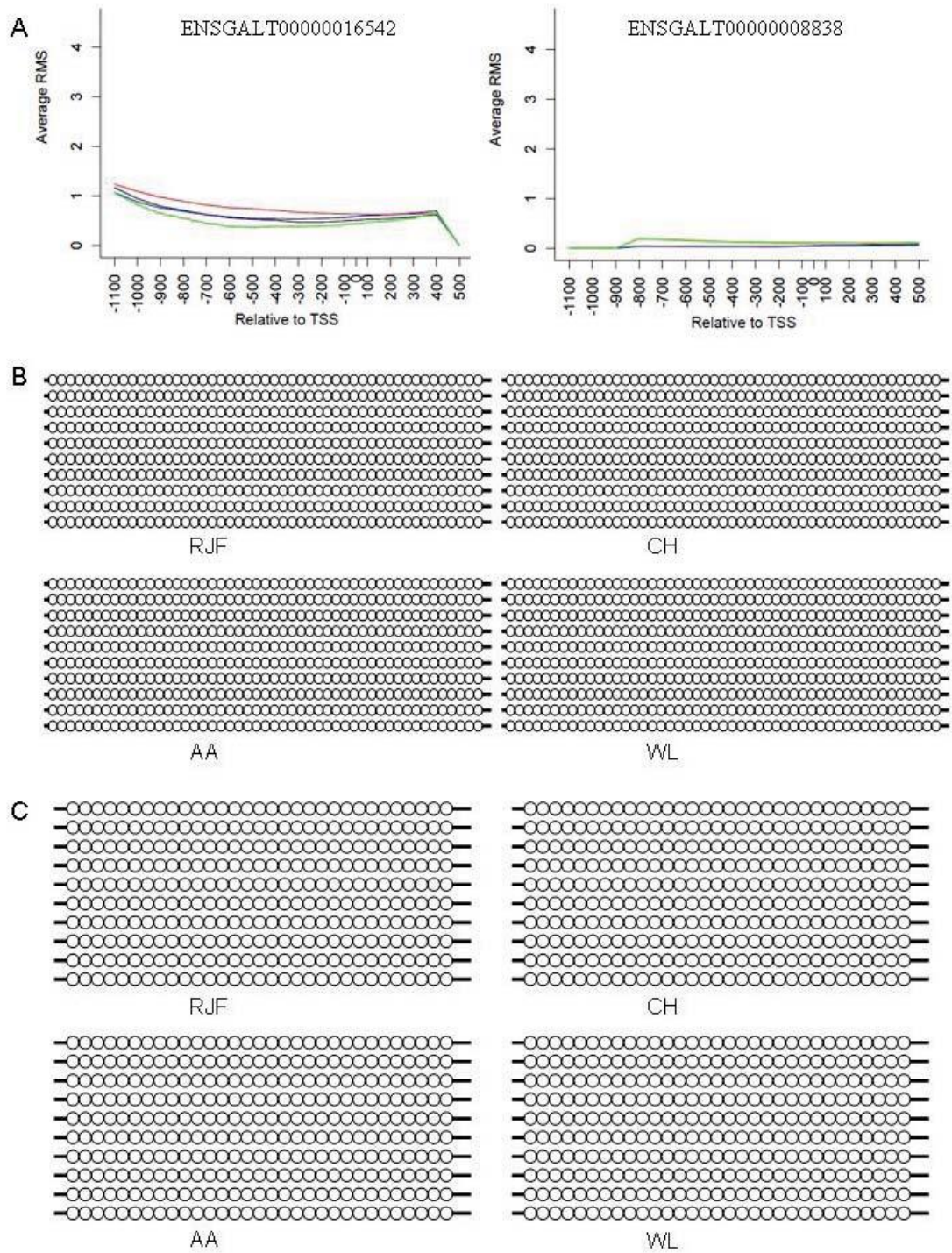


Figure S3

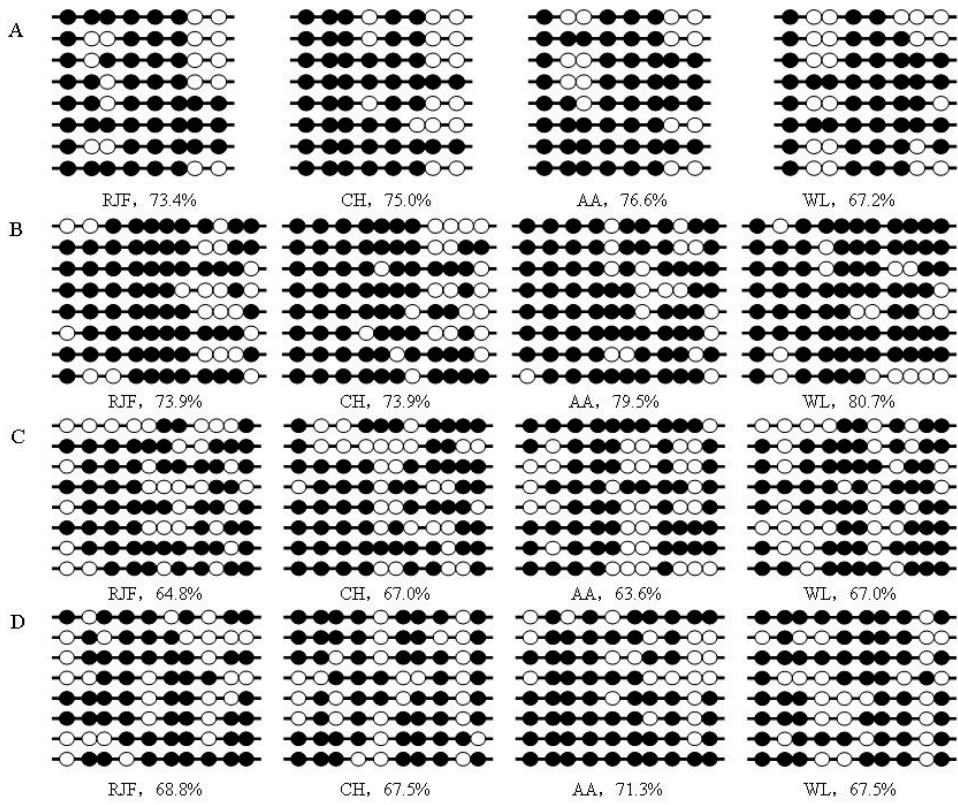


Figure S4

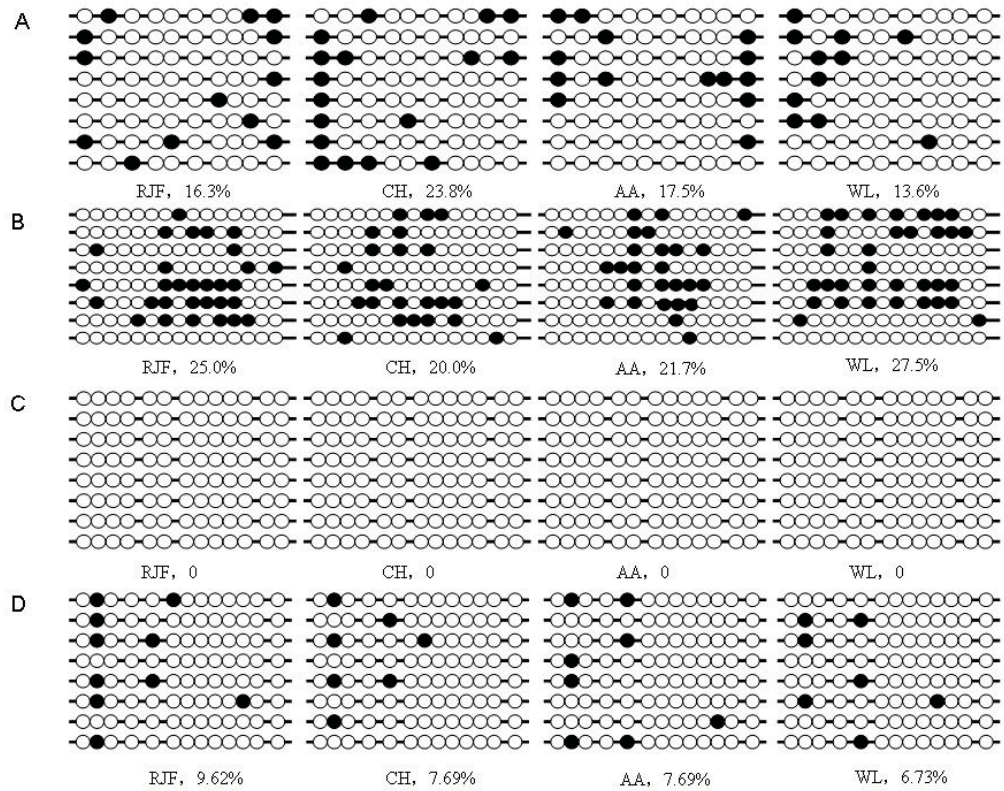


Figure S5

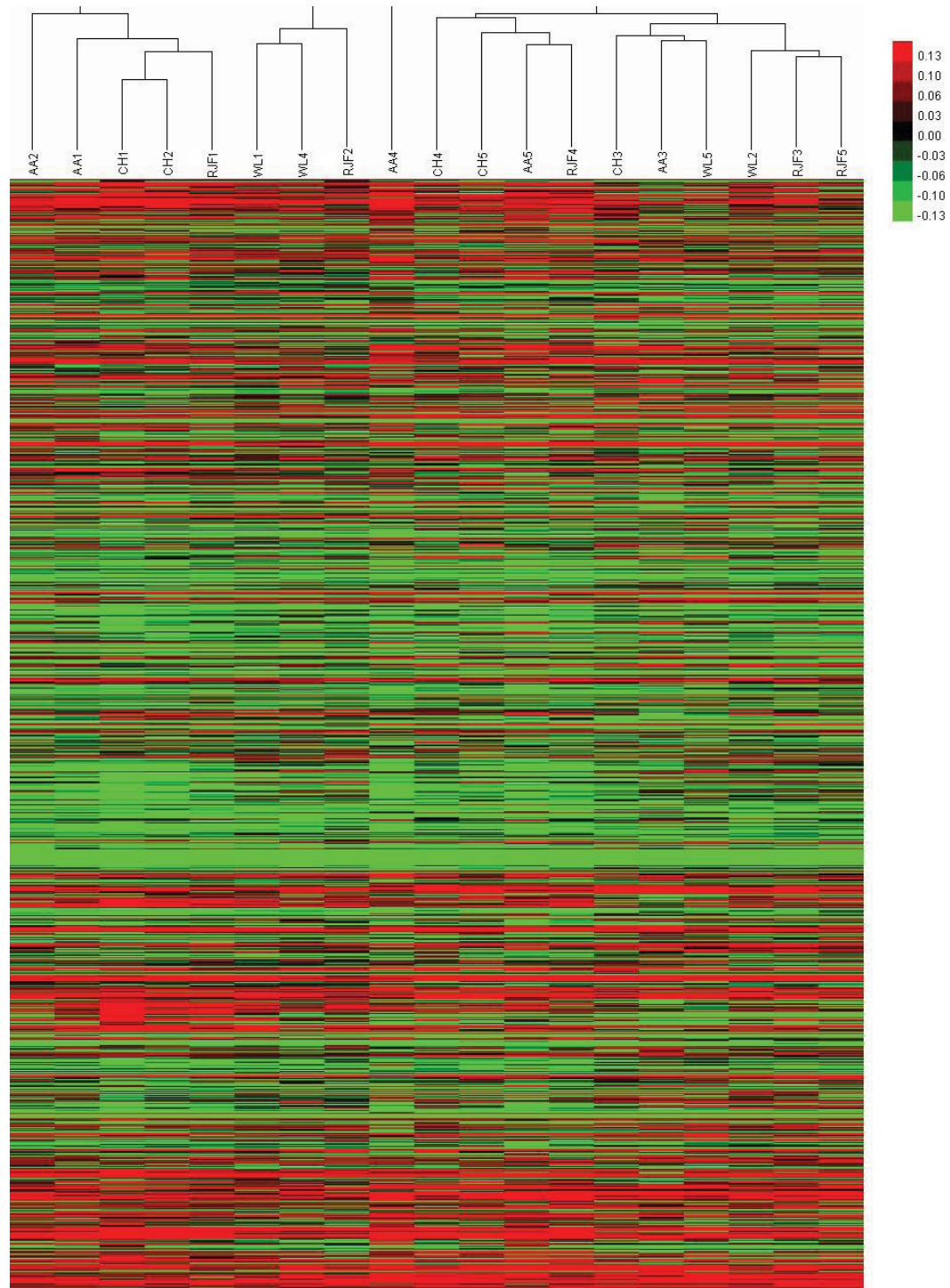


Figure S6

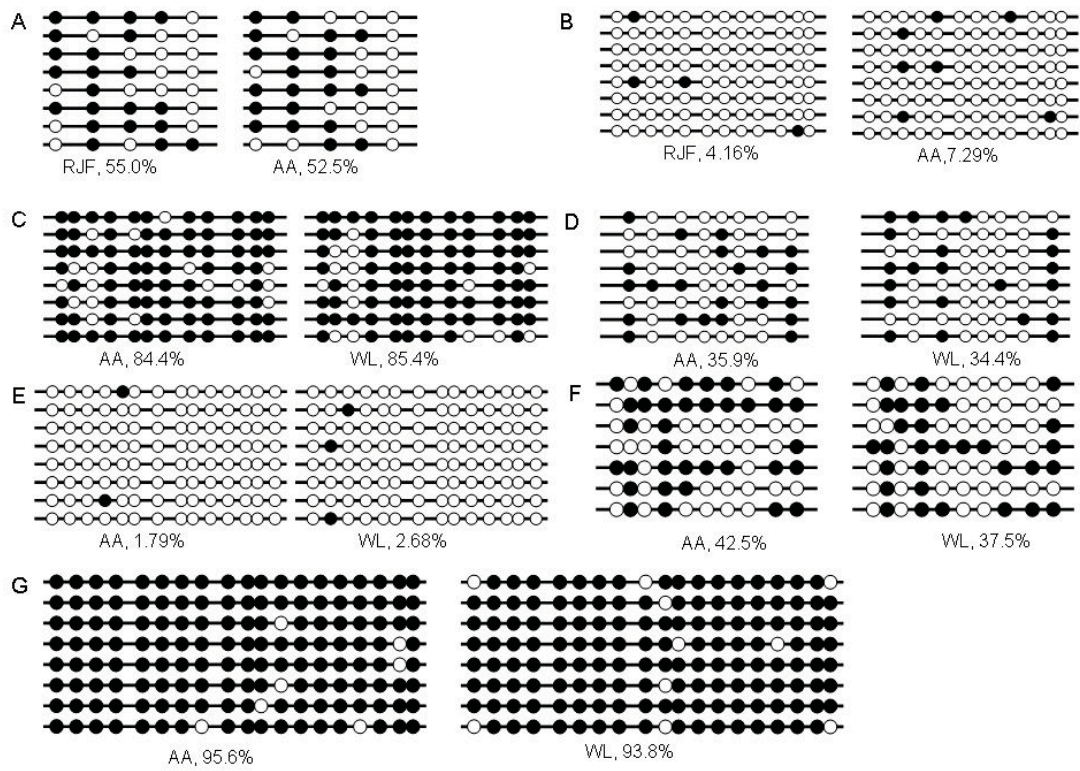
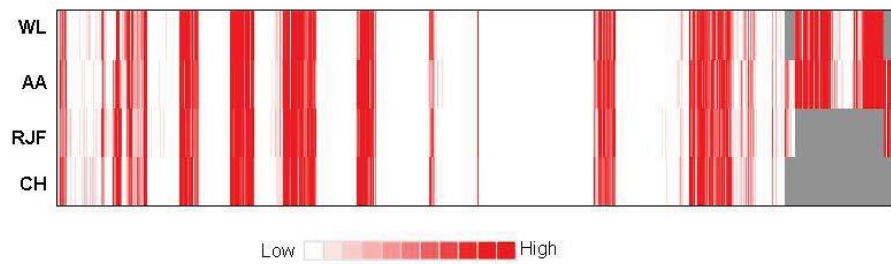
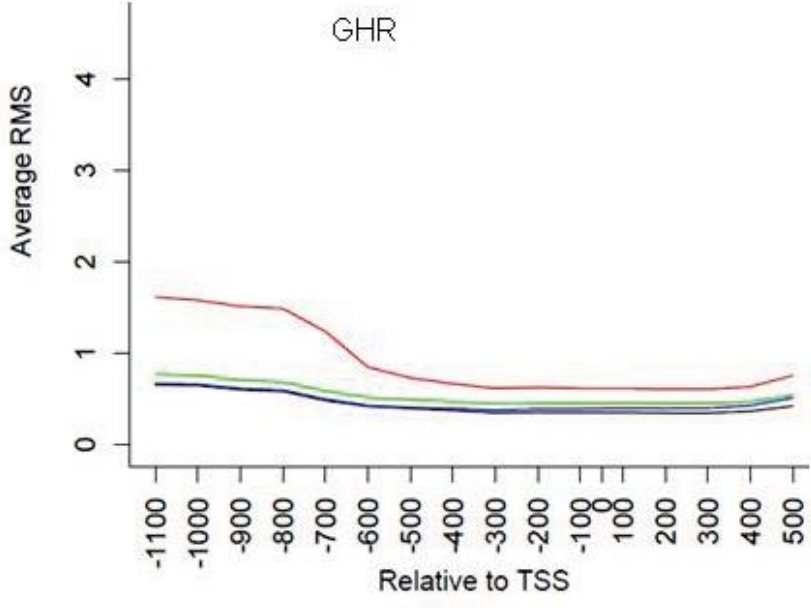
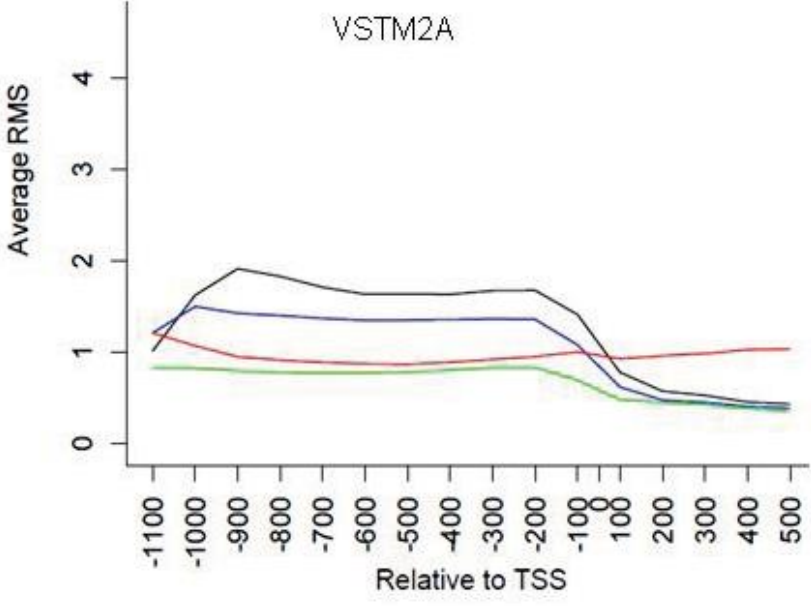
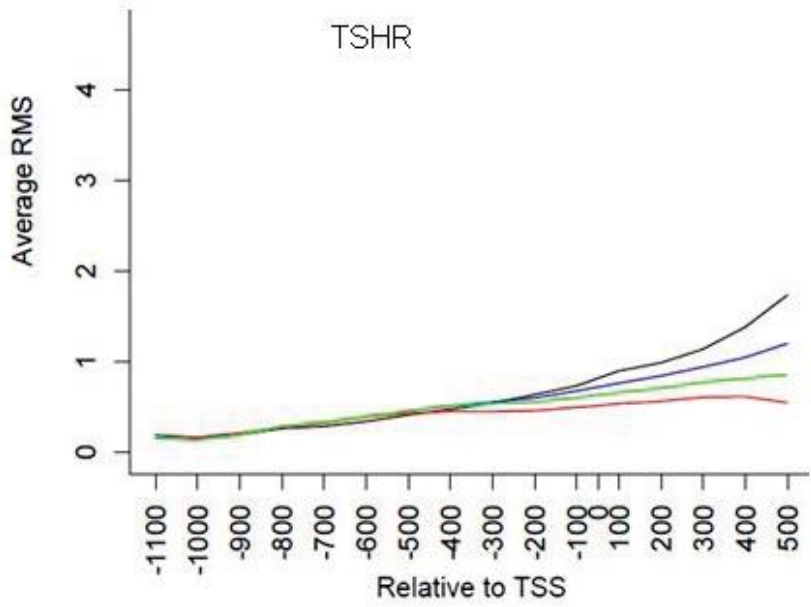


Figure S7



CH	RJJF	AA	WL	
1	0.932	0.933	0.910	CH
	1	0.934	0.920	RJJF
		1	0.937	AA
			1	WL

Figure S8



Supplementary table 1. Conserved highly methylated genes and conserved lowly methylated genes between wild and domestic chicken breeds.

conserved highly methylated genes		conserved lowly methylated genes	
	gene name		gene name
IPI00582379.2	CAC1B_CHICK	NP_989455.1	IPI00595951.3
IPI00598325.2	CAC1S_CHICK	PAX6_CHICK	PTN1_CHICK
NP_990255.1	IPI00818883.1	MYCN_CHICK	IPI00821238.1
Q9W6F1_CHICK	IPI00602405.3	HSF2_CHICK	IPI00579178.2
IPI00601756.3	IPI00572260.3	IPI00684164.3	IPI00585584.1
Q9I9A1_CHICK	TBA5_CHICK	XR_026852.1	IPI00598654.2
IPI00581939.2	IPI00684141.2	NP_001026079.1	PTPRU_CHICK
IPI00819296.1	IPI00591213.3	IPI00684197.1	IPI00683221.2
LIPL_CHICK	IPI00818931.1	IPI00581259.3	IPI00596758.3
IPI00595677.2	IPI00679593.3	IPI00587069.3	O42253_CHICK
Q8UWH4_CHICK	IPI00588910.3	Q8UVD8_CHICK	IPI00598635.3
IPI00603812.3	IPI00923820.1	NP_001012900.1	IPI00592428.3
IPI00576588.3	IPI00582347.2	NP_001025507.1	IPI00578239.2
B3TZC0_CHICK	IPI00603026.3	MYF5_CHICK	NP_990738.1
XR_027237.1	IPI00818951.1	IPI00818973.1	Q91969_CHICK
IPI00599405.1	IPI00681245.2	Q9PTK0_CHICK	SMAD5_CHICK
IPI00576976.3	Q5ZJA5_CHICK	HXA9_CHICK	NP_001019997.1
41_CHICK	Q5ZJA5_CHICK	IPI00592130.3	NP_989892.1
IPI00575887.2	IPI00811176.2	IPI00593183.3	Q56IA0_CHICK
IPI00572954.3	IPI00574878.3	Q9YGP8_CHICK	TGFR2_CHICK
IPI00588910.3	GBRG4_CHICK	IPI00587855.3	IPI00572212.3
LOC429840	JAK2_CHICK	IPI00813273.1	XR_027234.1
IPI00588662.2	IPI00573310.3	IPI00593469.4	IPI00819554.1
ASSY_CHICK	IPI00598751.1	GATA6_CHICK	TDRD3_CHICK
NP_001012901.1	IPI00589711.3	NFKB1_CHICK	IPI00820435.1
IPI00883233.1	NP_989516.1	IPI00811057.2	NP_001026106.1
MUSK_CHICK	IPI00588585.3	IPI00573704.3	IPI00582553.2
NP_989516.1	Q9YI46_CHICK	NP_001032915.1	NP_990006.1
NP_990231.1	IPI00583429.3	NP_989557.1	NP_001032346.1
NP_990361.1	IPI00822099.1	IPI00681554.2	NP_001032351.1
IPI00598120.3	IPI00820240.1	REL_CHICK	Q3L248_CHICK
MOT3_CHICK	NP_001025776.1	NP_001025866.1	NP_989667.1
IPI00591373.2	NP_001026133.1	Q9YHW7_CHICK	Q3L250_CHICK
IPI00603080.3	IPI00823338.1	NP_990547.1	WNT9A_CHICK
IPI00581939.2	NP_990264.1	Q9DGG1_CHICK	IPI00588858.2
B3TZC0_CHICK	IPI00820356.1	IRF1_CHICK	Q5ZI90_CHICK

SPP24_CHICK	Q90715_CHICK	IPI00596933.2	IPI00587489.4
XR_026966.1	IPI00811921.2	IPI00587901.3	IPI00822922.1
Q9W6J0_CHICK	NP_989998.1	HHEX_CHICK	Q8AY19_CHICK
IPI00579614.2	IPI00583002.3	NP_990226.1	IPI00588817.2
IPI00601177.2	B3TZC0_CHICK	Q5ZMD5_CHICK	TRPC7
IPI00594166.3	Q9I8D3_CHICK	IPI00819883.1	CAC1B_CHICK
NP_001006325.1	NP_990533.1	SMAD5_CHICK	IPI00811977.2
XR_027135.1	CHST3_CHICK	IRF2_CHICK	IPI00595398.3
TEAD3_CHICK	IPI00811970.2	IPI00574747.3	ACHA5_CHICK
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STAT3_CHICK	IPI00684792.2	IPI00600306.2	Q9DEX2_CHICK
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IPI00589786.2	NP_989451.1	NP_989781.1	IPI00598119.3
NP_989444.1	IPI00598333.2	Q9YHW5_CHICK	A0M8U4_CHICK
IPI00594235.2	NP_001020005.1	HXA11_CHICK	IPI00819902.1
IPI00594192.2	IPI00821317.1	IPI00684025.2	Q8AV15_CHICK
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CCL4_CHICK	IPI00579118.2	NP_001019997.1	IPI00575771.3
NP_998752.1	IPI00599589.2	XR_026766.1	Q90590_CHICK
IPI00822006.1	Q5ZMK6_CHICK	IPI00820569.1	IPI00589286.3
NP_989998.1	NP_001026661.1	NP_990429.1	NP_001004409.1
IPI00597131.2	NP_001034349.1	IPI00818195.1	NP_996862.1
IPI00582635.3	IPI00581601.3	IPI00597240.3	Q9PUI8_CHICK
IPI00810591.2	Q98SE8_CHICK	NP_997060.1	NP_989903.1
IPI00818613.1	IPI00588662.2	BMAL2_CHICK	IPI00602335.3
IPI00822606.1	IPI00820134.1	NPAS2_CHICK	IPI00812061.1
IPI00682695.2	B9VGZ4_CHICK	IPI00818178.1	O42421_CHICK
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IPI00585170.3	IPI00680595.1	HXB5_CHICK	NP_989657.1
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NP_990255.1	IPI00683979.2	IPI00589286.3	IPI00587021.3
MOT3_CHICK	NP_001026461.1	NP_989784.1	IPI00600977.2
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CAC1S_CHICK	Q6EE28_CHICK	LHX9_CHICK	IPI00571830.2
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CAC1B_CHICK	Q5MB12_CHICK	Q5ZJU1_CHICK	IPI00578166.3
XR_027000.1	STXB1_CHICK	NP_989947.1	IPI00575434.2
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ITA6_CHICK	NP_001006502.1
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CADH6_CHICK	NP_990024.1
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CTNA2_CHICK	IPI00822608.1
VINC_CHICK	IPI00594951.3
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CADH1_CHICK	IPI00822162.1
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XR_027198.1	IPI00580971.2
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CATL1_CHICK	IPI00594760.1
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Q788Q2_CHICK	IPI00577411.1
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CASP2_CHICK	IPI00597270.1
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TRY2_CHICK	NP_001025750.1
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CAN2_CHICK	NP_996757.1
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LOC423941	IPI00581215.3
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GARL3_CHICK	IPI00680581.2
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STMN2_CHICK	NP_989739.1
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GLL7_CHICK	NP_989962.1
IFNA3_CHICK	IPI00593770.1
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RL30_CHICK	IPI00594088.1
IPI00603744.2	VPP1_CHICK
RL35_CHICK	VATB_CHICK
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RS13_CHICK	TGFB2_CHICK
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RM37_CHICK	IPI00820145.1
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RL37A_CHICK	IPI00589597.2
Q98TF9_CHICK	IPI00594818.3
PELO_CHICK	IPI00595603.1
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RS4_CHICK	NCOA7_CHICK
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RL26_CHICK	DPH2_CHICK
RL7_CHICK	LOC776686
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RL39_CHICK	IPI00600705.1
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LOC430136	IPI00820707.1
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LOC429723	IPI00599518.2
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IPI00820385.1	PRPS2_CHICK
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Q90750_CHICK	IPI00587336.1
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PRS4_CHICK	NP_001012969.1
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IPI00822117.1	IPI00819650.1
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KPYK_CHICK	IPI00603009.3
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LDHA_CHICK	ACD11_CHICK
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PIGM_CHICK	IPI00823200.1
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PRDX6_CHICK	IPI00576752.1
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H2B1_CHICK	NP60_CHICK
H2AY_CHICK	NP_001025801.1
H2A4_CHICK	IPI00586982.2
H2AZ_CHICK	NP_001025731.1
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H4_CHICK	Q5ZM68_CHICK
H2B5_CHICK	IPI00819543.1
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H32_CHICK	IPI00821374.1
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IPI00578474.1	DHSA_CHICK
LOC769442	IPI00601047.3
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RAN_CHICK	IPI00813416.2
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KAP0_CHICK	NOS2_CHICK
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GLI3_CHICK	XR_027146.1
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TEN1_CHICK	IPI00572538.4
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NP_990816.1	IPI00570829.3
ANGPTL5	Q9I9L4_CHICK
NP_001026125.1	IPI00577509.1
NP_001025909.1	IPI00812213.1
IPI00587190.3	KAP0_CHICK
IPI00599632.1	IPI00599632.1
Q98SN5_CHICK	NP_989760.1
IPI00571872.3	XR_026654.1
NP_001004410.1	IPI00597610.2
IPI00585822.3	NP_001006181.1
IPI00587779.3	TOP2A_CHICK
BRAF1_CHICK	TOP2B_CHICK
AB1IP_CHICK	NP_001026129.1
IPI00578929.3	CI006_CHICK
IPI00576555.1	IPI00588243.2
IPI00592402.3	IPI00599886.3
IPI00580030.3	Q90716_CHICK
NP_001029041.1	Q9DEC9_CHICK
IPI00598371.3	IPI00582433.3
NP_990072.1	LOC419482
NP_989587.1	IPI00603402.4
IPI00820606.1	IPI00584919.4
IPI00584425.3	IPI00582510.3

O42347_CHICK
IPI00823282.1

Q9YGQ9_CHICK
IPI00571078.3

Supplementary table 2. Differentially methylated genes between chicken breeds.

Pairwise Comparison	Transcript ID
RJF vs CH	No
RJF vs AA	ENSGALT00000028623 ENSGALT00000014058 ENSGALT00000016875 ENSGALT00000035558
RJF vs WL	ENSGALT00000036045
CH vs AA	No
CH vs WL	No
AA vs WL	ENSGALT00000030604 ENSGALT00000021191 ENSGALT00000028031 ENSGALT00000040394 ENSGALT00000040845 ENSGALT00000010200 ENSGALT00000005397 ENSGALT00000038997 ENSGALT00000038443 ENSGALT00000031378 ENSGALT00000039071 ENSGALT00000037637 ENSGALT00000037636 ENSGALT00000035375 ENSGALT00000036610 ENSGALT00000036593 ENSGALT00000040769 ENSGALT00000000424 ENSGALT00000031934 ENSGALT00000026577 ENSGALT00000018724 ENSGALT00000008285 ENSGALT00000006744 ENSGALT00000014058 ENSGALT00000032637 ENSGALT00000037801 ENSGALT00000029498 ENSGALT00000016875 ENSGALT00000020492

ENSGALT00000023582
 ENSGALT00000036126
 ENSGALT00000035645
 ENSGALT00000035558
 ENSGALT0000002697

Supplementary table 3. DEGs between different chicken breeds.

DEGs between RJF and CH		DEGs between RJF and AA	
Ensembl Transcript ID	HGNC symbol	Ensembl Transcript ID	HGNC symbol
ENSGALT0000000023		ENSGALT0000000026	AAK1
ENSGALT0000000026	AAK1	ENSGALT0000000084	
ENSGALT0000000084		ENSGALT0000000104	NRBP2
ENSGALT0000000104	NRBP2	ENSGALT0000000128	INTS4
ENSGALT0000000216	ZNF638	ENSGALT0000000136	ANTXR1
ENSGALT0000000221	CDS2	ENSGALT0000000162	ZMAT3
ENSGALT0000000238		ENSGALT0000000216	ZNF638
ENSGALT0000000243	MTCH1	ENSGALT0000000221	CDS2
ENSGALT0000000312	SP2	ENSGALT0000000227	
ENSGALT0000000385	ARID4B	ENSGALT0000000237	
ENSGALT0000000407		ENSGALT0000000238	
ENSGALT0000000417	SIK2	ENSGALT0000000296	
ENSGALT0000000422		ENSGALT0000000312	SP2
ENSGALT0000000548	LOXL2	ENSGALT0000000353	C2CD2L
ENSGALT0000000627	MRC2	ENSGALT0000000385	ARID4B
ENSGALT0000000700	KCTD20	ENSGALT0000000407	
ENSGALT0000000716		ENSGALT0000000417	SIK2
ENSGALT0000000721	STK38	ENSGALT0000000518	SLC25A37
ENSGALT0000000739	ERRFI1	ENSGALT0000000548	LOXL2
ENSGALT0000000779	PI16	ENSGALT0000000627	MRC2
ENSGALT0000000797	PER3	ENSGALT0000000716	
ENSGALT0000000806	RANBP3	ENSGALT0000000721	STK38
ENSGALT0000000842	KANSL1	ENSGALT0000000739	ERRFI1
ENSGALT0000000878		ENSGALT0000000779	PI16
ENSGALT0000000950	TMCC2	ENSGALT0000000797	PER3
ENSGALT0000000994	ELK4	ENSGALT0000000806	RANBP3
ENSGALT0000001004		ENSGALT0000000864	PPP1R15B
ENSGALT0000001018	SLC41A1	ENSGALT0000000910	CIRH1A
ENSGALT0000001027		ENSGALT0000000950	TMCC2
ENSGALT0000001029		ENSGALT0000000994	ELK4
ENSGALT0000001098	TBC1D22B	ENSGALT0000001004	

ENSGALT00000001106		ENSGALT00000001018	SLC41A1
ENSGALT00000001189	SRGAP2	ENSGALT00000001027	
ENSGALT00000001203	MAPK14	ENSGALT00000001029	
ENSGALT00000001233	KDM1A	ENSGALT00000001093	CAPN5
ENSGALT00000001297	MAPKAPK2	ENSGALT00000001106	
ENSGALT00000001392	WDTC1	ENSGALT00000001149	
ENSGALT00000001407	TEAD3	ENSGALT00000001193	
ENSGALT00000001409	TMEM222	ENSGALT00000001199	
ENSGALT00000001481		ENSGALT00000001203	MAPK14
ENSGALT00000001489	MMP15	ENSGALT00000001233	KDM1A
ENSGALT00000001507		ENSGALT00000001289	PHLPP2
ENSGALT00000001527	SCAMP4	ENSGALT00000001297	MAPKAPK2
ENSGALT00000001535	SCAI	ENSGALT00000001398	
ENSGALT00000001662	MIER2	ENSGALT00000001401	
ENSGALT00000001752		ENSGALT00000001409	TMEM222
ENSGALT00000001766		ENSGALT00000001481	
ENSGALT00000001774	SEMA6B	ENSGALT00000001514	GOLGA1
ENSGALT00000001776		ENSGALT00000001527	SCAMP4
ENSGALT00000001786	CD34	ENSGALT00000001603	ELN
ENSGALT00000001814		ENSGALT00000001666	
ENSGALT00000001841	MSL2	ENSGALT00000001706	WBSCR17
ENSGALT00000001850	PIGU	ENSGALT00000001720	ZNF346
ENSGALT00000001925	GTF2I	ENSGALT00000001776	
ENSGALT00000001983		ENSGALT00000001786	CD34
ENSGALT00000001988		ENSGALT00000001790	KCNJ5
ENSGALT00000002003	UBE2Z	ENSGALT00000001801	DHX8
ENSGALT00000002011	CAMK1G	ENSGALT00000001841	MSL2
ENSGALT00000002047	ZBTB44	ENSGALT00000001850	PIGU
ENSGALT00000002082		ENSGALT00000001852	HERPUD1
ENSGALT00000002090	ADAMTS8	ENSGALT00000001897	
ENSGALT00000002140	ADAMTS15	ENSGALT00000001916	CLIC4
ENSGALT00000002157	ADRA1B	ENSGALT00000001925	GTF2I
ENSGALT00000002165		ENSGALT00000001947	HOXB9
ENSGALT00000002191	RANBP10	ENSGALT00000001984	
ENSGALT00000002223	ANKFY1	ENSGALT00000001988	
ENSGALT00000002306	FHL3	ENSGALT00000002047	ZBTB44
ENSGALT00000002314	PHF20	ENSGALT00000002068	MORN5
ENSGALT00000002321	VWA1	ENSGALT00000002090	ADAMTS8
ENSGALT00000002335		ENSGALT00000002121	
ENSGALT00000002495	DUSP26	ENSGALT00000002140	ADAMTS15
ENSGALT00000002498	EDC4	ENSGALT00000002165	
ENSGALT00000002567		ENSGALT00000002191	RANBP10

ENSGALT00000002623	MED1	ENSGALT00000002218	PDIK1L
ENSGALT00000002654	DGKD	ENSGALT00000002223	ANKFY1
ENSGALT00000002657	CDK12	ENSGALT00000002230	JAM3
ENSGALT00000002661	LRIG2	ENSGALT00000002268	PPM1F
ENSGALT00000002706		ENSGALT00000002291	
ENSGALT00000002733	MFSD11	ENSGALT00000002299	CNTRL
ENSGALT00000002757	ADPGK	ENSGALT00000002314	PHF20
ENSGALT00000002971	DNAJB5	ENSGALT00000002321	VWA1
ENSGALT00000003000	SLC25A24	ENSGALT00000002333	STAB1
ENSGALT00000003002	HIPK1	ENSGALT00000002335	
ENSGALT00000003005	SPDL1	ENSGALT00000002409	
ENSGALT00000003045	INPP5E	ENSGALT00000002416	
ENSGALT00000003064	PRPF38B	ENSGALT00000002422	MLLT1
ENSGALT00000003093		ENSGALT00000002469	OGFOD3
ENSGALT00000003103	LIMS2	ENSGALT00000002498	EDC4
ENSGALT00000003133	MMRN2	ENSGALT00000002508	
ENSGALT00000003142	CAPN15	ENSGALT00000002514	
ENSGALT00000003148	COMT	ENSGALT00000002516	
ENSGALT00000003180		ENSGALT00000002609	
ENSGALT00000003276	PFKFB4	ENSGALT00000002623	MED1
ENSGALT00000003315	PLEKHN1	ENSGALT00000002654	DGKD
ENSGALT00000003339	PGAM5	ENSGALT00000002657	CDK12
ENSGALT00000003495	RERE	ENSGALT00000002661	LRIG2
ENSGALT00000003506	C3orf18	ENSGALT00000002706	
ENSGALT00000003543		ENSGALT00000002716	ACAP3
ENSGALT00000003559	DCUN1D3	ENSGALT00000002729	CEP250
ENSGALT00000003570		ENSGALT00000002733	MFSD11
ENSGALT00000003571	UNK	ENSGALT00000002757	ADPGK
ENSGALT00000003716	CMTR2	ENSGALT00000002758	HECTD2
ENSGALT00000003726	SEC16A	ENSGALT00000002781	IFT74
ENSGALT00000003737		ENSGALT00000002784	
ENSGALT00000003784	ULK1	ENSGALT00000002785	IWS1
ENSGALT00000003831		ENSGALT00000003000	SLC25A24
ENSGALT00000003844	FAM69B	ENSGALT00000003002	HIPK1
ENSGALT00000003846	BDP1	ENSGALT00000003005	SPDL1
ENSGALT00000003980	TMEM201	ENSGALT00000003038	
ENSGALT00000003987		ENSGALT00000003045	INPP5E
ENSGALT00000004014	CSGALNAC T2	ENSGALT00000003064	PRPF38B
ENSGALT00000004041	GPR133	ENSGALT00000003067	GNL2
ENSGALT00000004086	MSS51	ENSGALT00000003093	
ENSGALT00000004111		ENSGALT00000003103	LIMS2

ENSGALT00000004115		ENSGALT00000003133	MMRN2
ENSGALT00000004144	TMEM248	ENSGALT00000003142	CAPN15
ENSGALT00000004204		ENSGALT00000003145	ZC3H12A
ENSGALT00000004213	GRPEL2	ENSGALT00000003148	COMT
ENSGALT00000004255		ENSGALT00000003157	AHCY
ENSGALT00000004258	ATP8B2	ENSGALT00000003180	
ENSGALT00000004357		ENSGALT00000003192	
ENSGALT00000004394	PITPNA	ENSGALT00000003246	MMP19
ENSGALT00000004469	SH3PXD2B	ENSGALT00000003296	TSTD2
ENSGALT00000004481	GRM4	ENSGALT00000003315	PLEKHN1
ENSGALT00000004554	CASZ1	ENSGALT00000003339	PGAM5
ENSGALT00000004596		ENSGALT00000003364	CAMSAP2
ENSGALT00000004598		ENSGALT00000003449	
ENSGALT00000004650	PRPF8	ENSGALT00000003506	C3orf18
ENSGALT00000004669		ENSGALT00000003529	AGO1
ENSGALT00000004844	EZH1	ENSGALT00000003543	
ENSGALT00000004906	AMFR	ENSGALT00000003570	
ENSGALT00000004933	NCOR2	ENSGALT00000003612	TMEM132E
ENSGALT00000005129	RAD54L2	ENSGALT00000003644	SORD
ENSGALT00000005131	LSM1	ENSGALT00000003716	CMTR2
ENSGALT00000005219	ADAMTS12	ENSGALT00000003726	SEC16A
ENSGALT00000005236	CRTC1	ENSGALT00000003831	
ENSGALT00000005327	KAT2A	ENSGALT00000003844	FAM69B
ENSGALT00000005338		ENSGALT00000003846	BDP1
ENSGALT00000005386		ENSGALT00000003906	B3GALT2
ENSGALT00000005407	ZBTB8A	ENSGALT00000003918	SFSWAP
ENSGALT00000005424		ENSGALT00000003944	
ENSGALT00000005581	ARRDC2	ENSGALT00000003954	COL5A2
ENSGALT00000005592	KLHL11	ENSGALT00000003980	TMEM201
ENSGALT00000005608		ENSGALT00000003987	
ENSGALT00000005617	PRELP	ENSGALT00000004032	
ENSGALT00000005643		ENSGALT00000004041	GPR133
ENSGALT00000005655		ENSGALT00000004086	MSS51
ENSGALT00000005662	RNF19B	ENSGALT00000004113	U2SURP
ENSGALT00000005664		ENSGALT00000004144	TMEM248
ENSGALT00000005721	DARS2	ENSGALT00000004183	
ENSGALT00000005731		ENSGALT00000004187	
ENSGALT00000005844	PAPSS2	ENSGALT00000004201	OLFML2B
ENSGALT00000005921	UCK1	ENSGALT00000004204	
ENSGALT00000005938	CPAMD8	ENSGALT00000004213	GRPEL2
ENSGALT00000005939	VPS37B	ENSGALT00000004246	FAM149B1
ENSGALT00000005982	SIN3B	ENSGALT00000004255	

ENSGALT00000005992	PRRC2B	ENSGALT00000004258	ATP8B2
ENSGALT00000006018	SLC35E1	ENSGALT00000004357	
ENSGALT00000006028	PABPC4	ENSGALT00000004469	SH3PXD2B
ENSGALT00000006051	NT5C1A	ENSGALT00000004489	NEURL1B
ENSGALT00000006133		ENSGALT00000004494	
ENSGALT00000006155		ENSGALT00000004499	SARDH
ENSGALT00000006164		ENSGALT00000004517	ERGIC1
ENSGALT00000006179	MTMR10	ENSGALT00000004533	ZBTB38
ENSGALT00000006182	SGCD	ENSGALT00000004538	
ENSGALT00000006265		ENSGALT00000004555	
ENSGALT00000006362		ENSGALT00000004573	ALPK2
ENSGALT00000006375		ENSGALT00000004598	
ENSGALT00000006417	PHF12	ENSGALT00000004728	SERPINF2
ENSGALT00000006422	GALNT10	ENSGALT00000004808	SRM
ENSGALT00000006478	TET1	ENSGALT00000004815	
ENSGALT00000006504	FNBP1	ENSGALT00000004844	EZH1
ENSGALT00000006533	CCAR1	ENSGALT00000004876	
ENSGALT00000006584		ENSGALT00000005064	TRADD
ENSGALT00000006652	NSRP1	ENSGALT00000005088	TSPO2
ENSGALT00000006657		ENSGALT00000005135	
ENSGALT00000006663	SLTM	ENSGALT00000005192	COMP
ENSGALT00000006691		ENSGALT00000005219	ADAMTS12
ENSGALT00000006699	ABL2	ENSGALT00000005224	
ENSGALT00000006741	TRAF3IP1	ENSGALT00000005236	CRTC1
ENSGALT00000006768	SNX8	ENSGALT00000005261	TBC1D2B
ENSGALT00000006838	CPD	ENSGALT00000005262	OSGIN1
ENSGALT00000006896		ENSGALT00000005305	RAI14
ENSGALT00000006907	ABCA5	ENSGALT00000005327	KAT2A
ENSGALT00000006909		ENSGALT00000005338	
ENSGALT00000006945	CCDC69	ENSGALT00000005348	LSM4
ENSGALT00000006957	MCM3AP	ENSGALT00000005353	DNAJC21
ENSGALT00000006970		ENSGALT00000005373	
ENSGALT00000007036	ASCC1	ENSGALT00000005381	ZNF385C
ENSGALT00000007195	TRPV2	ENSGALT00000005391	SOGA1
ENSGALT00000007219	DCTN4	ENSGALT00000005397	RALGDS
ENSGALT00000007279	LRRC8A	ENSGALT00000005424	
ENSGALT00000007292	NPLOC4	ENSGALT00000005561	AGPAT6
ENSGALT00000007303	CLCN6	ENSGALT00000005592	KLHL11
ENSGALT00000007311		ENSGALT00000005608	
ENSGALT00000007316	ZBTB37	ENSGALT00000005617	PRELP
ENSGALT00000007398		ENSGALT00000005643	
ENSGALT00000007437	SMG7	ENSGALT00000005664	

ENSGALT00000007475	NLE1	ENSGALT00000005683	
ENSGALT00000007675	EDEM3	ENSGALT00000005708	
ENSGALT00000007728	APLNR	ENSGALT00000005731	
ENSGALT00000007743	ZMIZ1	ENSGALT00000005824	PRKAR1B
ENSGALT00000007760	FICD	ENSGALT00000005832	
ENSGALT00000007838		ENSGALT00000005902	CHD9
ENSGALT00000007851		ENSGALT00000005921	UCK1
ENSGALT00000007950		ENSGALT00000005924	
ENSGALT00000008038		ENSGALT00000005938	CPAMD8
ENSGALT00000008172	SLC25A25	ENSGALT00000005939	VPS37B
ENSGALT00000008174	B9D1	ENSGALT00000005940	
ENSGALT00000008181	GDPD1	ENSGALT00000005967	
ENSGALT00000008222	FBLN2	ENSGALT00000005982	SIN3B
ENSGALT00000008232	LSM14B	ENSGALT00000005992	PRRC2B
ENSGALT00000008249	KCTD10	ENSGALT00000006018	SLC35E1
ENSGALT00000008264	PDP2	ENSGALT00000006033	DAB2
ENSGALT00000008397	MYOZ1	ENSGALT00000006051	NT5C1A
ENSGALT00000008452		ENSGALT00000006070	NUP214
ENSGALT00000008454	SEC22C	ENSGALT00000006125	PAPD5
ENSGALT00000008481	TRMT13	ENSGALT00000006133	
ENSGALT00000008492	BCAS3	ENSGALT00000006164	
ENSGALT00000008503		ENSGALT00000006179	MTMR10
ENSGALT00000008587	ZBTB5	ENSGALT00000006182	SGCD
ENSGALT00000008746	CCDC66	ENSGALT00000006206	MPHOSPH10
ENSGALT00000008792		ENSGALT00000006228	CAP1
ENSGALT00000008794		ENSGALT00000006230	EPS15L1
ENSGALT00000008940	NOLC1	ENSGALT00000006250	
ENSGALT00000009006		ENSGALT00000006252	MYPN
ENSGALT00000009044	GBF1	ENSGALT00000006317	
ENSGALT00000009068		ENSGALT00000006358	RUFY2
ENSGALT00000009079	FOXO4	ENSGALT00000006362	
ENSGALT00000009084		ENSGALT00000006374	LARP1
ENSGALT00000009103	TTC28	ENSGALT00000006422	GALNT10
ENSGALT00000009141	HIF1AN	ENSGALT00000006424	
ENSGALT00000009190	CSF1R	ENSGALT00000006478	TET1
ENSGALT00000009240		ENSGALT00000006533	CCAR1
ENSGALT00000009267	HMGXB3	ENSGALT00000006540	
ENSGALT00000009269		ENSGALT00000006583	SH3BP4
ENSGALT00000009283		ENSGALT00000006584	
ENSGALT00000009328	SEPT2	ENSGALT00000006652	NSRP1
ENSGALT00000009350	FAM219A	ENSGALT00000006663	SLTM
ENSGALT00000009355		ENSGALT00000006691	

ENSGALT0000009408		ENSGALT0000006699	ABL2
ENSGALT0000009410	TBC1D9B	ENSGALT0000006741	TRAF3IP1
ENSGALT0000009416	ALOX5	ENSGALT0000006768	SNX8
ENSGALT0000009484	USP8	ENSGALT0000006793	ASB1
ENSGALT0000009494	PCMTD2	ENSGALT0000006838	CPD
ENSGALT0000009591	SEC61A1	ENSGALT0000006867	AGGF1
ENSGALT0000009600	RIC3	ENSGALT0000006945	CCDC69
ENSGALT0000009602	KBTBD12	ENSGALT0000006957	MCM3AP
ENSGALT0000009653	ADAMTS2	ENSGALT0000006978	
ENSGALT0000009656	PRPF6	ENSGALT0000007014	
ENSGALT0000009741	FAM64A	ENSGALT0000007036	ASCC1
ENSGALT0000009806		ENSGALT0000007061	LHFPL2
ENSGALT0000009845	ZNF644	ENSGALT0000007150	FAM73B
ENSGALT0000009867		ENSGALT0000007193	PARP3
ENSGALT0000009889		ENSGALT0000007219	DCTN4
ENSGALT0000009913	GGA2	ENSGALT0000007279	LRRC8A
ENSGALT0000009976	SLC9A6	ENSGALT0000007290	NDST1
ENSGALT0000009988	FHL1	ENSGALT0000007292	NPLOC4
ENSGALT0000010006	TBC1D20	ENSGALT0000007303	CLCN6
ENSGALT0000010117	KIRREL	ENSGALT0000007316	ZBTB37
ENSGALT0000010138		ENSGALT0000007345	
ENSGALT0000010215		ENSGALT0000007398	
ENSGALT0000010255		ENSGALT0000007431	ZDHHC12
ENSGALT0000010304	LIPA	ENSGALT0000007437	SMG7
ENSGALT0000010311		ENSGALT0000007475	NLE1
ENSGALT0000010312	UBXN7	ENSGALT0000007484	PDAP1
ENSGALT0000010319	CRKL	ENSGALT0000007499	CSEIL
ENSGALT0000010339	DDX46	ENSGALT0000007566	
ENSGALT0000010372	PAK2	ENSGALT0000007571	NOL8
ENSGALT0000010426		ENSGALT0000007588	CEP89
ENSGALT0000010518	CLMP	ENSGALT0000007592	DHRS7B
ENSGALT0000010594	MCF2	ENSGALT0000007608	C1QA
ENSGALT0000010602	UBASH3B	ENSGALT0000007637	
ENSGALT0000010619		ENSGALT0000007643	TNFAIP8L3
ENSGALT0000010635	PLAGL2	ENSGALT0000007656	MPRIIP
ENSGALT0000010676		ENSGALT0000007669	EPB42
ENSGALT0000010751	DUSP8	ENSGALT0000007675	EDEM3
ENSGALT0000010812	ABHD2	ENSGALT0000007729	NT5M
ENSGALT0000010834		ENSGALT0000007734	SEMA6D
ENSGALT0000010909	DET1	ENSGALT0000007743	ZMIZ1
ENSGALT0000010917		ENSGALT0000007760	FICD
ENSGALT0000010935		ENSGALT0000007838	

ENSGALT00000010949		ENSGALT00000007851	
ENSGALT00000010963	KLHDC8B	ENSGALT00000007937	GLA
ENSGALT00000010978	CCDC71	ENSGALT00000007950	
ENSGALT00000011032	USP19	ENSGALT00000007962	SLC27A4
ENSGALT00000011062	TSPAN4	ENSGALT00000007980	ALKBH5
ENSGALT00000011145	SLC38A10	ENSGALT00000007982	
ENSGALT00000011206	BAIAP2	ENSGALT00000007990	CERCAM
ENSGALT00000011255		ENSGALT00000008018	
ENSGALT00000011260	CHD2	ENSGALT00000008038	
ENSGALT00000011440		ENSGALT00000008115	PPM1E
ENSGALT00000011465	CCNY	ENSGALT00000008172	SLC25A25
ENSGALT00000011484	LYSMD4	ENSGALT00000008174	B9D1
ENSGALT00000011502	MLEC	ENSGALT00000008185	TPR
ENSGALT00000011547		ENSGALT00000008219	SWT1
ENSGALT00000011568	RNF10	ENSGALT00000008222	FBLN2
ENSGALT00000011657		ENSGALT00000008243	
ENSGALT00000011691	HGS	ENSGALT00000008249	KCTD10
ENSGALT00000011727		ENSGALT00000008264	PDP2
ENSGALT00000011730		ENSGALT00000008293	
ENSGALT00000011799		ENSGALT00000008325	SEC24C
ENSGALT00000011867	ABAT	ENSGALT00000008407	USP54
ENSGALT00000011871		ENSGALT00000008474	LRRC39
ENSGALT00000011897	MAP3K8	ENSGALT00000008481	TRMT13
ENSGALT00000011900	CILP	ENSGALT00000008490	PPFIBP2
ENSGALT00000011962		ENSGALT00000008492	BCAS3
ENSGALT00000011996		ENSGALT00000008503	
ENSGALT00000012011	PPRC1	ENSGALT00000008519	SRFBP1
ENSGALT00000012079		ENSGALT00000008552	SNCAIP
ENSGALT00000012083	PCYT1A	ENSGALT00000008553	
ENSGALT00000012148		ENSGALT00000008587	ZBTB5
ENSGALT00000012192	ANKRD2	ENSGALT00000008738	
ENSGALT00000012431		ENSGALT00000008746	CCDC66
ENSGALT00000012457	BCL9L	ENSGALT00000008792	
ENSGALT00000012479		ENSGALT00000008794	
ENSGALT00000012623		ENSGALT00000008805	
ENSGALT00000012655		ENSGALT00000008859	DYNLL2
ENSGALT00000012737	ATRX	ENSGALT00000008940	NOLC1
ENSGALT00000012797		ENSGALT00000008944	AKAP1
ENSGALT00000012884		ENSGALT00000009029	
ENSGALT00000012901		ENSGALT00000009037	MRVII
ENSGALT00000012929	AHCYL2	ENSGALT00000009044	GBF1
ENSGALT00000012936	ALG9	ENSGALT00000009068	

ENSGALT00000012996	CAPN6	ENSGALT00000009079	FOXO4
ENSGALT00000013006		ENSGALT00000009090	
ENSGALT00000013018	KIAA0195	ENSGALT00000009103	TTC28
ENSGALT00000013063	MTMR3	ENSGALT00000009141	HIF1AN
ENSGALT00000013071	B4GALT5	ENSGALT00000009190	CSF1R
ENSGALT00000013077	PAK3	ENSGALT00000009192	PDGFRB
ENSGALT00000013128		ENSGALT00000009240	
ENSGALT00000013157	CCDC88A	ENSGALT00000009266	
ENSGALT00000013221	COL4A5	ENSGALT00000009267	HMGXB3
ENSGALT00000013245	SRPK2	ENSGALT00000009269	
ENSGALT00000013265		ENSGALT00000009283	
ENSGALT00000013322		ENSGALT00000009327	KREMEN1
ENSGALT00000013428		ENSGALT00000009328	SEPT2
ENSGALT00000013447	COL4A6	ENSGALT00000009335	
ENSGALT00000013512		ENSGALT00000009337	BCAR3
ENSGALT00000013524		ENSGALT00000009355	
ENSGALT00000013539	SLK	ENSGALT00000009407	CLUH
ENSGALT00000013587	ATG13	ENSGALT00000009408	
ENSGALT00000013683	ANKRD12	ENSGALT00000009410	TBC1D9B
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ENSGALT00000013753		ENSGALT00000009484	USP8
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DEGs between RJF and WL

DEGs between CH and AA

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ENSGALT00000014971	SLITRK2
ENSGALT00000033813	
ENSGALT00000013983	GPR1
ENSGALT00000015011	
ENSGALT00000018926	TMEM177
ENSGALT00000004272	
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ENSGALT00000011869	KBTBD13
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ENSGALT00000029098	
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DEGs between CH and WL

Ensembl Transcript ID	HGNC symbol
ENSGALT00000029647	
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ENSGALT00000040207	
ENSGALT00000000555	
ENSGALT00000040563	ANKMY1
ENSGALT00000000587	
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ENSGALT00000001184	MYH13
ENSGALT00000014829	DPP7
ENSGALT00000000671	LONP1
ENSGALT00000014774	MAN1B1
ENSGALT00000014744	
ENSGALT00000000806	RANBP3
ENSGALT00000001427	
ENSGALT00000041277	
ENSGALT00000014675	
ENSGALT00000014665	TRAF2
ENSGALT00000014657	
ENSGALT00000001029	
ENSGALT00000014614	RABL6
ENSGALT00000001137	PIP5K1C
ENSGALT00000001477	MAP2K4
ENSGALT00000001507	

DEGs between AA and WL

Ensembl Transcript ID	HGNC symbol
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ENSGALT00000040207	
ENSGALT00000000555	
ENSGALT00000040563	ANKMY1
ENSGALT00000000556	
ENSGALT00000000587	
ENSGALT00000001184	MYH13
ENSGALT00000014829	DPP7
ENSGALT00000000671	LONP1
ENSGALT00000014774	MAN1B1
ENSGALT00000014744	
ENSGALT00000000806	RANBP3
ENSGALT00000000837	MARCH2
ENSGALT00000000866	
ENSGALT00000014712	NPDC1
ENSGALT00000014675	
ENSGALT00000014665	TRAF2
ENSGALT00000014657	
ENSGALT00000001029	
ENSGALT00000014614	RABL6
ENSGALT00000001137	PIP5K1C
ENSGALT00000001477	MAP2K4
ENSGALT00000001507	

ENSGALT0000001534	ELAC2	ENSGALT0000001534	ELAC2
ENSGALT00000014440	ZNF618	ENSGALT00000014440	ZNF618
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ENSGALT00000002095		ENSGALT00000002095	
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ENSGALT00000014372	SLC31A1	ENSGALT00000002349	
ENSGALT00000002349		ENSGALT00000028221	
ENSGALT00000014359	FKBP15	ENSGALT00000014359	FKBP15
ENSGALT00000002374		ENSGALT00000002374	
ENSGALT00000002396	FOXK2	ENSGALT00000002416	
ENSGALT00000002433	NARF	ENSGALT00000002433	NARF
ENSGALT00000002490		ENSGALT00000002445	C17orf62
ENSGALT00000014314		ENSGALT00000002469	OGFOD3
ENSGALT00000002733	MFSD11	ENSGALT00000002490	
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ENSGALT00000014239	DPH7	ENSGALT00000002784	
ENSGALT00000003062	UBE2O	ENSGALT00000002789	MXRA7
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ENSGALT00000003634	GALK1	ENSGALT00000003475	
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ENSGALT00000007603		ENSGALT00000034629	C17orf58
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ENSGALT00000001723	UBXN6	ENSGALT00000007631	PTGES2
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ENSGALT00000010620		ENSGALT00000001768	POLR2C
ENSGALT00000039194	C11orf89	ENSGALT00000001496	ARPC5L
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ENSGALT00000016123	CYLD	ENSGALT00000038761	RTN4RL2
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ENSGALT00000034245		ENSGALT00000005064	TRADD
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ENSGALT00000006236	SIAH1	ENSGALT00000005216	MBTPS1
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ENSGALT00000006378		ENSGALT00000010684	FBXO3
ENSGALT00000013183		ENSGALT00000005262	OSGIN1
ENSGALT00000013191		ENSGALT00000005367	NFATC3
ENSGALT00000013356		ENSGALT00000022035	
ENSGALT00000006871	MYLK3	ENSGALT00000005388	DUS2
ENSGALT00000013368		ENSGALT00000005597	SLC12A4
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ENSGALT00000007136		ENSGALT00000012829	COMMD9
ENSGALT00000007149		ENSGALT00000012861	PRR5L
ENSGALT00000007159		ENSGALT00000012888	TRAF6
ENSGALT00000013551		ENSGALT00000012953	

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ENSGALT00000007751	LRP3	ENSGALT00000005902	CHD9
ENSGALT00000007771		ENSGALT00000016123	CYLD
ENSGALT00000013748		ENSGALT00000013011	EXT2
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