

Supplementary Table 4. List of human X genes, organized by stratum, and conserved synteny in other vertebrates.

	<u>Ensembl gene ID</u>	<u>Gene symbol</u>	<u>Human X Position</u>	<u>Syntenic chicken homolog</u>	<u>Most distant conserved synteny of genes without chicken syntenic homologs</u>		
					<u>Anolis or Xenopus</u>	<u>Metatherians</u>	<u>Eutherians</u>
Pseudo-autosomal region 1	ENSG00000182378	PLCXD1	132989				
	ENSG00000178605	GTPBP6	160025				
	ENSG00000178605	GTPBP6	168295				
	ENSG00000167393	PPP2R3B	214970				
	ENSG00000185960	SHOX	505079				
	ENSG00000205755	CRLF2	1274885				
	ENSG00000198223	CSF2RA	1347693				
	ENSG00000185291	IL3RA	1415509				
	ENSG00000169100	SLC25A6	1465144				
	ENSG00000169093	ASMTL	1482032				
	ENSG00000182162	P2RY8	1541468				
	ENSG00000197976	SFRS17A	1670486				
	ENSG00000196433	ASMT	1694024				
	ENSG00000169084	DHRX	2147557				
	ENSG00000214717	ZBED1	2414455				
	ENSG00000002586	CD99	2619228				
	ENSG00000124343	XG	2680115				
	Stratum 5	ENSG00000056998	GYG2	2756859			
ENSG00000006756		ARSD	2832011				
ENSG00000157399		ARSE	2862673				
ENSG00000205667		ARSH	2934654				
ENSG00000062096		ARSF	2969512				
ENSG00000101825		MXRA5	3236606				
ENSG00000183943		PRKX	3532415				
Stratum 4	ENSG00000146938	NLGN4X	5818085				
	ENSG00000130021	HDHD1A	6976961				
	ENSG00000101846	STS	7147472				
	ENSG00000006757	PNPLA4	7826804				
	ENSG00000011201	KAL1	8456915				

Stratum 4	ENSG00000183304	FAM9A	8718836				
	ENSG00000101849	TBL1X	9391352				
	ENSG00000101850	GPR143	9653454				
	ENSG00000146950	SHROOM2	9714496				
	ENSG00000047644	WWC3	9943795				
	ENSG00000073464	CLCN4	10084985				
	ENSG00000101871	MID1	10373596				
Stratum 3	ENSG00000004961	HCCS	11039342				
	ENSG00000047648	ARHGAP6	11065584				
	ENSG00000125363	AMELX	11221454				
	ENSG00000005302	MSL3	11686199				
	ENSG00000169933	FRMPD4	12066506				
	ENSG00000101911	PRPS2	12719414				
	ENSG00000196664	TLR7	12795123				
	ENSG00000101916	TLR8	12834679				
	ENSG00000205542	TMSL2	12903150				
	ENSG00000198759	EGFL6	13497645				
	ENSG00000176896	TCEANC	13581146				
	ENSG00000123595	RAB9A	13617262				
	ENSG00000196459	TRAPPC2	13640282				
	ENSG00000046651	OFD1	13662785				
	ENSG00000046653	GPM6B	13698983				
	ENSG00000046647	GEMIN8	13934766				
	ENSG00000101958	GLRA2	14457565				
	ENSG00000181544	FANCB	14771450				
	ENSG00000130150	MOSPD2	14801484				
	ENSG00000102048	ASB9	15172030				
	ENSG00000165192	ASB11	15209759				
	ENSG00000165195	PIGA	15247503				
	ENSG00000165197	FIGF	15273640				
	ENSG00000087842	PIR	15312847				
	ENSG00000102010	BMX	15392290				
	ENSG00000130234	ACE2	15489077				
	ENSG00000147003	TMEM27	15555372				
	ENSG00000186312	CA5BP	15602976				

Stratum 2

ENSG00000147082	CCNB3	49856156			
ENSG00000204466	DGKK	50128637			
ENSG00000158352	SHROOM4	50351387			
ENSG00000130385	BMP15	50670475			
ENSG00000122824	NUDT10	51091823			
ENSG00000187690	CXORF67	51166507			
ENSG00000196368	NUDT11	51249603			
ENSG00000189369	GSPT2	51503267			
ENSG00000179222	MAGED1	51562895			
ENSG00000187243	MAGED4	51821663			
ENSG00000154545	MAGED4	51944659			
ENSG00000184194	GPR173	53095231			
ENSG00000184205	TSPYL2	53128274			
ENSG00000126012	KDM5C	53237381			
ENSG00000124313	IQSEC2	53278784			
ENSG00000072501	SMC1A	53417795			
ENSG00000158423	RIBC1	53466575			
ENSG00000072506	HSD17B10	53474931			
ENSG00000086758	HUWE1	53575782			
ENSG00000172943	PHF8	53979834			
ENSG00000184083	FAM120C	54111482			
ENSG00000196632	WNK3	54239580			
ENSG00000158526	TSR2	54483578			
ENSG00000102302	FGD1	54488614			
ENSG00000130119	GNL3L	54570464			
ENSG00000102313	ITIH5L	54792341			
ENSG00000102316	MAGED2	54850757			
ENSG00000067445	TRO	54963969			
ENSG00000158571	PFKFB1	54976315			
ENSG00000169188	APEX2	55043505			
ENSG00000158578	ALAS2	55052213			
ENSG00000187601	MAGEH1	55495263			
ENSG00000185295	USP51	55529687			
ENSG00000189299	FOXR2	55666558			
ENSG00000083750	RRAGB	55760897			

Stratum 2	ENSG00000102349	KLF8	56275632				
	ENSG00000188021	UBQLN2	56606797				
	ENSG00000204271	SPIN3	57033990				
	ENSG00000186787	SPIN2B	57162840				
	ENSG00000147059	SPIN2A	57177688				
	ENSG00000165591	FAAH2	57329864				
	ENSG00000198205	ZXDA	57949867				
Stratum 1	ENSG00000186767	SPIN4	62483832				
	ENSG00000131089	ARHGEF9	62771572				
	ENSG00000184675	FAM123B	63321722				
	ENSG00000198881	ASB12	63360801				
	ENSG00000102043	MTMR8	63404687				
	ENSG00000126970	ZC4H2	64052987				
	ENSG00000102053	ZC3H12B	64625431				
	ENSG00000001497	LAS1L	64649188				
	ENSG00000147065	MSN	64804283				
	ENSG00000155659	VSIG4	65158307				
	ENSG00000089472	HEPH	65299388				
	ENSG00000089472	HEPH	65403953				
	ENSG00000131080	EDA2R	65732204				
	ENSG00000169083	AR	66680599				
	ENSG00000079482	OPHN1	67179440				
	ENSG00000181704	YIPF6	67635611				
	ENSG00000130052	STARD8	67784229				
	ENSG00000090776	EFNB1	67965556				
	ENSG00000181191	PJA1	68297422				
	ENSG00000215162	CXORF62	68316125				
	ENSG00000130054	FAM155B	68641803				
	ENSG00000158813	EDA	68752636				
	ENSG00000147160	AWAT2	69177117				
	ENSG00000189401	OTUD6A	69199066				
	ENSG00000089289	IGBP1	69270043				
	ENSG00000184210	DGAT2L6	69314061				
	ENSG00000204195	AWAT1	69371271				
	ENSG00000186912	P2RY4	69394745				

Stratum 1

	ENSG00000013563	DNASE1L1	153282773				
	ENSG000000102125	TAZ	153293071				
	ENSG000000071553	ATP6AP1	153310172				
	ENSG000000203879	GDI1	153318705				
	ENSG000000071859	FAM50A	153325698				
	ENSG000000130827	PLXNA3	153339817				
	ENSG000000196976	LAGE3	153358435				
	ENSG000000102178	UBL4A	153365254				
	ENSG000000126903	SLC10A3	153368842				
	ENSG000000071889	FAM3A	153387696				
	ENSG000000160211	G6PD	153412800				
	ENSG000000073009	IKBKG	153423672				
	ENSG000000160219	GAB3	153556725				
	ENSG000000130826	DKC1	153637340				
	ENSG000000100721	TCL1A	153646932				
	ENSG000000130830	MPP1	153660162				
	ENSG000000185010	F8	153717257				
	ENSG000000198082	H2AFB1	153766511				
	ENSG000000197932	F8A1	153767829				
	ENSG000000165775	FUNDC2	153908258				
	ENSG000000165775	FUNDC2	153938384				
	ENSG000000182712	MTCP1	153943091				
	ENSG000000214827	MTCP1	153943098				
	ENSG000000185515	BRCC3	153952889				
	ENSG000000155959	VBP1	154097744				
	ENSG000000155961	RAB39B	154140721				
	ENSG000000155962	CLIC2	154158720				
	ENSG000000198307	H2AFB2	154263622				
	ENSG000000185978	H2AFB2	154342270				
	ENSG000000185973	TMLHE	154372967				
Pseudo-autosomal	ENSG000000168939	SPRY3	154650645				
region 2	ENSG000000124333	VAMP7	154764207				
	ENSG000000182484	WASH6P	154903161				