

MysoxH	GK	VKRPM	NAFM	VW	ARNYR	SRLSEEM	PQASNA	QISVRL	LGQIW	GSMP	LADKEK	YFRE	EAER	IKLQ	HNRDF	PGW	VYQPK	Q
ObSox19a	GN	IKRPM	NAFM	VF	GRTYR	STLMKMF	PTASN	SQIS	IYLG	EIWH	KMSPA	QKPY	FDES	NRIKY	KHRK	DYPG	WVYR	PN
Hssox30	GH	VKRPM	NAFM	VW	ARIHR	PALAKAN	PAANNA	AEISV	QLGLE	WNK	LSEEQ	KPY	YDEA	QKIKE	KHRE	EPGW	VYQPR	RP
Drsox5	PH	IKRPM	NAFM	VW	AKDER	RKILQAF	PDMHN	SNISK	ILGSR	WKSMT	NLEKQP	YEEQA	RLSK	QHLE	KYPD	YKYK	PRP	
Hssox5	PH	IKRPM	NAFM	VW	AKDER	RKILQAF	PDMHN	SNISK	ILGSR	WKAMT	NLEKQP	YEEQA	RLSK	QHLE	KYPD	YKYK	PRP	
Drsox6	PH	IKRPM	NAFM	VW	AKDER	RKILQAF	PDMHN	SNISK	ILGSR	WKSMT	NQEKQP	YEEQA	RLSK	IHL	EKYP	NYKY	KPRP	
Hssox6	PH	IKRPM	NAFM	VW	AKDER	RKILQAF	PDMHN	SNISK	ILGSR	WKSMS	NQEKQP	YEEQA	RLSK	IHL	EKYP	NYKY	KPRP	
Drsox13	GH	IKRPM	NAFM	VW	AKDER	RRILQAF	PDMHN	SSISK	ILGSR	WKSMS	NQEKQP	YEEQA	RLSR	QHLE	RYPD	YKYK	PRP	
Hssox13	SH	IKRPM	NAFM	VW	AKDER	RKILQAF	PDMHN	SSISK	ILGSR	WKSMT	NQEKQP	YEEQA	RLSR	QHLE	KYPD	YKYK	PRP	
SpSoxD1	PH	IKRPM	NAFM	VW	AKEER	RKILARH	PDMHN	SNISK	ILGSK	WKTMS	NAEKQP	YEEQA	RLSK	AHL	EKYP	YKYK	PRP	
CfsoxD	PH	VKRPM	NAFM	VW	AREER	RKILKAC	PDMHN	SNISK	ILGAK	WKAMT	NAEKQP	YEEQS	RLSK	LHME	KHPD	YRYR	PRP	
Cgsox5	PH	IKRPM	NAFM	VW	AREER	RKILKAC	PDMHN	SNISK	ILGAK	WKAMT	NAEKQP	YEEQS	RLSK	LHME	KHPD	YRYR	PRP	
ObSox5	PH	VKRPM	NAFM	VW	AREER	RKILKAC	PDMHN	SNISK	ILGAK	WKAMS	NAEKQP	YEEQS	RLSK	LHME	KHPD	YRYR	PRP	
MysoxD	PH	IKRPM	NAFM	VW	AREER	RKILKAC	PDMHN	SNISK	ILGAK	WKAMS	NAEKQP	YEEQS	RLSK	LHME	KHPD	YRYR	PRP	
Drsox4a	GH	IKRPM	NAFM	VW	SQIER	RKIMEQS	PDMHN	AEISK	RLGKR	WKL	LKDS	DKIP	PIREA	ERLR	LKHM	ADYP	YKYR	PRK
Hssox4	GH	IKRPM	NAFM	VW	SQIER	RKIMEQS	PDMHN	AEISK	RLGKR	WKL	LKDS	DKIP	PIREA	ERLR	LKHM	ADYP	YKYR	PRK
Drsox4b	GH	IKRPM	NAFM	VW	SQIER	RKIMEQS	PDMHN	AEISK	RLGKR	WKL	LKD	GDKIP	PIREA	ERLR	LKHM	ADYP	YKYR	PRK
Drsox11a	GH	IKRPM	NAFM	VW	SKIER	RKIMEQS	PDMHN	AEISK	RLGKR	WKM	LKDS	EKIP	PIREA	ERLR	LKHM	ADYP	YKYR	PKK
Hssox11	GH	IKRPM	NAFM	VW	SKIER	RKIMEQS	PDMHN	AEISK	RLGKR	WKM	LKDS	EKIP	PIREA	ERLR	LKHM	ADYP	YKYR	PRK
Drsox11b	GH	IKRPM	NAFM	VW	SKIER	RKIMEQS	PDMHN	AEISK	RLGKR	WKM	LKDS	EKIP	PIREA	ERLR	LQHM	ADYP	YKYR	PKK
Drsox12	GH	IKRPM	NAFM	VW	SQIER	RKIMEQW	PDMHN	AEISK	RLGKR	WKL	LPD	YEKIP	PIKEA	ERLR	LKHM	ADYP	YKYR	PRK
Hssox12	GH	IKRPM	NAFM	VW	SQHER	RKIMDQW	PDMHN	AEISK	RLGRR	WQL	LQDS	EKIP	VREA	ERLR	LKHM	ADYP	YKYR	PRK
Cgsox11	NH	VKRPM	NAFM	VW	SQLE	RKISEVS	PDMHN	AEISK	RLGKR	WKT	LNET	DRQP	PIEEA	ERLR	LHMQ	EYPD	YKYR	PRK
MysoxC	NH	VKRPM	NAFM	VW	SQIER	RRISEVS	PDMHN	AEISK	RLGKR	WKL	LTE	TERQP	PIEEA	ERLR	LHMQ	EYPD	YKYR	PRK
CfsoxC	NH	VKRPM	NAFM	VW	SQIER	RKISEVA	PDMHN	AEISK	QLGAR	WKL	LDEN	DRQP	PIEEA	ERLR	LHMQ	EYPD	YKYR	PRK
SpSox4	GH	IKRPM	NAFM	VW	SQIER	RRIMET	PDMHN	AEISK	RLGRR	WKT	LDE	VAKSP	VVEEA	ERLR	LHMA	QYPD	YKYR	PRK
Drsox3	DR	VKRPM	NAFM	VW	SRGQR	RKMAQEN	PKMHN	SEISK	RLGAD	WKL	LTD	AEKRP	PIDEA	KRLRA	MHM	KEHPD	YKYR	PRR
Hssox3	DR	VKRPM	NAFM	VW	SRGQR	RKMALEN	PKMHN	SEISK	RLGAD	WKL	LTD	AEKRP	PIDEA	KRLRA	VHM	KEYPD	YKYR	PRR
Drsox19b	DK	VKRPM	NAFM	VW	SRGQR	RKMAQEN	PKMHN	SEISK	RLGAE	WKL	LTD	VEKRP	PIDEA	KRLRA	VHM	KEYPD	YKYK	PRR
Drsox31	DK	VKRPM	NAFM	VW	SRGQR	RKMAQEN	PKMHN	SEISK	RLGAE	WKL	LTD	VEKRP	PIDEA	KRLRA	VHM	KEYPD	YKYK	PRR
Drsox19a	DK	VKRPM	NAFM	VW	SRGQR	RKMAQEN	PKMHN	SEISK	RLGAE	WKL	LTD	AEKRP	PIDEA	KRLRA	LHM	KEYPD	YKYK	PRR
CfsoxB2	DH	VKRPM	NAFM	VW	SRGQR	RKMAQEN	PKMHN	SEISK	RLGAD	WKL	LTE	EKRP	PIDEA	KRLRA	LHM	KEHPD	YKYR	PRR
Drsox14	DH	IKRPM	NAFM	VW	SRGQR	RKMAQEN	PKMHN	SEISK	RLGAE	WKL	LSE	SEKRP	PIDEA	KRLRA	QHM	KEHPD	YKYR	PRR
Hssox14	DH	IKRPM	NAFM	VW	SRGQR	RKMAQEN	PKMHN	SEISK	RLGAE	WKL	LSE	AEKRP	PIDEA	KRLRA	QHM	KEHPD	YKYR	PRR
Drsox2	DR	IKRPM	NAFM	VW	SRGQR	RKMAQEN	PKMHN	SEISK	RLGAE	WKL	LSE	SEKRP	PIDEA	KRLRA	LHM	KEHPD	YKYR	PRR
Drsox1a	DR	VKRPM	NAFM	VW	SRGQR	RKMAQEN	PKMHN	SEISK	RLGAE	WKVMS	SEAEKRP	PIDEA	KRLRA	MHM	KEHPD	YKYR	PRR	

Hssox1	DR	V	K	R	P	M	N	A	F	M	V	W	S	R	G	Q	R	R	K	M	A	Q	E	N	P	K	M	H	N	S	E	I	S	K	R	L	G	A	E	W	K	V	M	S	E	A	E	K	R	P	F	I	D	E	A	K	R	L	R	A	L	H	M	K	E	H	P	D	Y	K	Y	R	P	R	R
Drsox1b	DR	V	K	R	P	M	N	A	F	M	V	W	S	R	G	Q	R	R	K	M	A	Q	E	N	P	K	M	H	N	S	E	I	S	K	R	L	G	A	E	W	K	L	M	S	E	A	E	K	R	P	F	I	D	E	A	K	R	L	R	A	M	H	M	K	E	H	P	D	Y	K	Y	R	P	R	R
Cgsox2	DR	V	K	R	P	M	N	A	F	M	V	W	S	R	G	Q	R	R	K	M	A	Q	E	N	P	K	M	H	N	S	E	I	S	K	R	L	G	A	E	W	K	L	L	S	E	A	E	K	R	P	F	I	D	E	A	K	R	L	R	A	I	H	M	K	E	H	P	D	Y	K	Y	R	P	R	R
ObSox2	DR	V	K	R	P	M	N	A	F	M	V	W	S	R	G	Q	R	R	K	M	A	Q	E	N	P	K	M	H	N	S	E	I	S	K	R	L	G	A	E	W	K	L	L	S	E	S	E	K	R	P	F	I	D	E	A	K	R	L	R	A	I	H	M	K	E	H	P	D	Y	K	Y	R	P	R	R
CfsoxB1	DR	V	K	R	P	M	N	A	F	M	V	W	S	R	G	Q	R	R	K	M	A	Q	E	N	P	K	M	H	N	S	E	I	S	K	R	L	G	A	E	W	K	L	L	S	E	T	E	K	R	P	F	I	D	E	A	K	R	L	R	A	I	H	M	K	E	H	P	D	Y	K	Y	R	P	R	R
MysoxB1	DR	V	K	R	P	M	N	A	F	M	V	W	S	R	G	Q	R	R	K	M	A	Q	E	N	P	K	M	H	N	S	E	I	S	K	R	L	G	A	E	W	K	L	L	T	E	T	E	K	R	P	F	I	D	E	A	K	R	L	R	A	I	H	M	K	E	H	P	D	Y	K	Y	R	P	R	R
Hssox2	DR	V	K	R	P	M	N	A	F	M	V	W	S	R	G	Q	R	R	K	M	A	Q	E	N	P	K	M	H	N	S	E	I	S	K	R	L	G	A	E	W	K	L	L	S	E	T	E	K	R	P	F	I	D	E	A	K	R	L	R	A	L	H	M	K	E	H	P	D	Y	K	Y	R	P	R	R
SpSoxB1	DR	V	K	R	P	M	N	A	F	M	V	W	S	R	G	Q	R	R	K	L	S	Q	E	N	P	K	M	H	N	S	E	I	S	K	R	L	G	A	E	W	K	L	L	S	E	D	E	K	R	P	F	I	D	E	A	K	R	L	R	A	V	H	M	K	E	H	P	D	Y	K	Y	R	P	R	R
Cgsox14	EH	V	K	R	P	M	N	A	F	M	V	W	S	R	G	Q	R	R	K	M	A	Q	D	N	P	K	M	H	N	S	E	I	S	K	R	L	G	A	E	W	K	L	L	S	E	E	D	K	R	P	F	I	D	E	A	K	R	L	R	A	L	H	M	K	E	H	P	D	Y	K	Y	R	P	R	R
MysoxB2	DH	V	K	R	P	M	N	A	F	M	V	W	S	R	G	Q	R	R	K	M	A	Q	E	N	P	K	M	H	N	S	E	I	S	K	R	L	G	A	E	W	K	L	L	S	E	E	D	K	R	P	F	I	D	E	A	K	R	L	R	A	L	H	M	K	E	H	P	E	Y	K	Y	R	P	R	R
SpSoxB2	DH	V	K	R	P	M	N	A	F	M	V	W	S	R	G	Q	R	R	K	L	A	Q	E	N	P	K	M	H	N	S	E	I	S	K	R	L	G	A	E	W	K	L	L	S	E	D	D	K	R	P	F	I	D	E	A	K	R	L	R	A	L	H	M	K	E	H	P	D	Y	K	Y	R	P	R	R
ObSox14	EH	V	K	R	P	M	N	A	F	M	V	W	S	R	G	Q	R	R	K	M	A	Q	E	N	P	K	M	H	N	S	E	I	S	K	R	L	G	A	E	W	K	L	L	S	E	E	E	K	R	P	F	I	D	E	A	K	R	L	R	A	L	H	M	K	E	H	P	D	Y	K	Y	R	P	R	R
Drsox21b	DH	V	K	R	P	M	N	A	F	M	V	W	S	R	A	Q	R	R	K	M	A	Q	E	N	P	K	M	H	N	S	E	I	S	K	R	L	G	A	E	W	K	L	L	T	E	S	E	K	R	P	F	I	D	E	A	K	R	L	R	A	M	H	M	K	E	H	P	D	Y	K	Y	R	P	R	R
Hssox21	DH	V	K	R	P	M	N	A	F	M	V	W	S	R	A	Q	R	R	K	M	A	Q	E	N	P	K	M	H	N	S	E	I	S	K	R	L	G	A	E	W	K	L	L	T	E	S	E	K	R	P	F	I	D	E	A	K	R	L	R	A	M	H	M	K	E	H	P	D	Y	K	Y	R	P	R	R
Drsox21a	DH	V	K	R	P	M	N	A	F	M	V	W	S	R	A	Q	R	R	K	M	A	L	D	N	P	K	M	H	N	S	E	I	S	K	R	L	G	G	E	W	K	L	L	S	D	S	E	K	R	P	F	I	D	E	A	K	R	L	R	A	V	H	M	K	E	H	P	D	Y	K	Y	R	P	R	R
Hssox15	EK	V	K	R	P	M	N	A	F	M	V	W	S	S	A	Q	R	R	Q	M	A	Q	Q	N	P	K	M	H	N	S	E	I	S	K	R	L	G	A	Q	W	K	L	L	D	E	D	E	K	R	P	F	V	E	E	A	K	R	L	R	A	R	H	L	R	D	Y	P	D	Y	K	Y	R	P	R	R
Drsox7	PR	I	R	R	P	M	N	A	F	M	V	W	A	K	D	E	R	K	R	L	A	V	Q	N	P	D	L	H	N	A	E	L	S	K	M	L	G	K	S	W	K	A	L	T	P	P	Q	K	R	P	Y	V	E	E	A	E	R	L	R	V	Q	H	M	Q	D	Y	P	N	Y	K	Y	R	P	R	R
Hssox7	SR	I	R	R	P	M	N	A	F	M	V	W	A	K	D	E	R	K	R	L	A	V	Q	N	P	D	L	H	N	A	E	L	S	K	M	L	G	K	S	W	K	A	L	T	L	S	Q	K	R	P	Y	V	D	E	A	E	R	L	R	L	Q	H	M	Q	D	Y	P	N	Y	K	Y	R	P	R	R
Drsox17	PR	I	R	R	P	M	N	A	F	M	V	W	A	K	D	E	R	K	R	L	A	Q	Q	N	P	D	L	H	N	A	E	L	S	K	M	L	G	K	S	W	K	A	L	P	M	V	D	K	R	P	F	V	E	E	A	E	R	L	R	V	K	H	M	Q	D	H	P	N	Y	K	Y	R	P	R	R
Hssox17	SR	I	R	R	P	M	N	A	F	M	V	W	A	K	D	E	R	K	R	L	A	Q	Q	N	P	D	L	H	N	A	E	L	S	K	M	L	G	K	S	W	K	A	L	T	L	A	E	K	R	P	F	V	E	E	A	E	R	L	R	V	Q	H	M	Q	D	H	P	N	Y	K	Y	R	P	R	R
Drsox18	SR	I	R	R	P	M	N	A	F	M	V	W	A	K	D	E	R	K	R	L	A	I	Q	N	P	D	L	H	N	A	V	L	S	K	M	L	G	Q	S	W	K	A	L	S	T	L	D	K	R	P	F	V	E	E	A	E	R	L	R	L	Q	H	L	Q	D	H	P	N	Y	K	Y	R	P	R	R
Hssox18	SR	I	R	R	P	M	N	A	F	M	V	W	A	K	D	E	R	K	R	L	A	Q	Q	N	P	D	L	H	N	A	V	L	S	K	M	L	G	K	A	W	K	E	L	N	A	A	E	K	R	P	F	V	E	E	A	E	R	L	R	V	Q	H	L	R	D	H	P	N	Y	K	Y	R	P	R	R
SpSox17	AR	I	R	R	P	M	N	A	F	M	V	W	A	K	D	E	R	K	R	L	A	D	Q	N	P	D	L	H	N	A	D	L	S	K	L	L	G	K	A	W	R	S	L	T	L	M	Q	K	Q	P	F	V	E	E	A	E	R	L	R	L	K	H	M	A	D	H	P	D	Y	K	Y	R	P	R	R
Drsox32	TR	V	R	R	P	L	N	A	F	I	W	T	K	E	E	R	R	R	L	A	Q	L	N	P	D	L	E	N	T	D	L	S	K	I	L	G	K	T	W	K	A	M	S	L	A	D	K	R	P	Y	M	Q	E	A	E	R	L	R	I	Q	H	T	I	D	Y	P	N	Y	K	Y	R	P	R	R	
CfsoxF	HR	I	R	R	P	M	N	A	F	M	V	W	A	K	T	A	R	K	Q	L	A	E	E	N	P	D	V	H	N	A	E	L	S	K	M	L	G	T	N	W	K	N	L	P	A	E	K	K	K	Y	I	D	E	A	E	R	I	R	Q	D	H	M	K	Q	Y	P	D	Y	K	Y	R	P	R	R	
Cgsox7	ER	I	R	R	P	M	N	A	F	M	V	W	A	K	T	E	R	K	K	L	A	L	E	N	P	E	V	H	N	A	D	L	S	K	I	L	G	Q	K	W	R	E	L	S	P	S	Q	K	K	Y	S	E	A	D	K	L	R	D	L	H	M	Q	K	Y	P	D	Y	K	Y	R	P	R	R		
MysoxF	QR	I	R	R	P	M	N	A	F	M	V	W	A	R	T	E	R	K	R	L	A	H	E	N	P	D	V	H	N	A	D	L	S	K	I	L	G	K	K	W	K	S	L	P	T	E	E	K	K	I	F	I	D	E	A	E	R	L	R	V	R	H	M	Q	E	H	P	D	Y	K	Y	K	P	R	R
Drsox8b	PH	V	K	R	P	M	N	A	F	M	V	W	A	Q	A	A	R	R	K	L	A	D	Q	Y	P	H	L	H	N	A	E	L	S	K	T	L	G	K	L	W	R	L	L	T	E	S	E	K	R	P	F	V	E	E	A	E	R	L	R	V	Q	H	K	K	D	H	P	D	Y	K	Y	Q	P	R	R
Hssox8	PH	V	K	R	P	M	N	A	F	M	V	W	A	Q	A	A	R	R	K	L	A	D	Q	Y	P	H	L	H	N	A	E	L	S	K	T	L	G	K	L	W	R	L	L	S	E	S	E	K	R	P	F	V	E	E	A	E	R	L	R	V	Q	H	K	K	D	H	P	D	Y	K	Y	Q	P	R	R
Drsox9a	PH	V	K	R	P	M	N	A	F	M	V	W	A	Q	A	A	R	R	K	L	A	D	Q	Y	P	H	L	H	N	A	E	L	S	K	T	L	G	K	L	W	R	L	L	N	E	V	E	K	R	P	F	V	E	E	A	E	R	L	R	V	Q	H	K	K	D	H	P	D	Y	K	Y	Q	P	R	R
Drsox9b	PH	V	K	R	P	M	N	A	F	M	V	W	A	Q	A	A	R	R	K	L	A	D	Q	Y	P	H	L	H	N	A	E	L	S	K	T	L	G	K	L	W	R	L	L	N	E	G	E	K	R	P	F	V	E	E	A	E	R	L	R	V	Q	H	K	K	D	H	P	D	Y	K	Y	Q	P	R	R
Hssox9	PH	V	K	R	P	M	N	A	F	M	V	W	A	Q																																																													