

Appendix 1: Summary of the microsatellites mapped in deer.

Source species and chromosomal location in deer are given for each locus. The first reference for that locus being typed in red deer is noted. Where the locus has not previously been described in deer, the reference describes the amplification of the locus in the source species. NCBI accession numbers are listed for previously unpublished markers.

Locus	Source species	Location in deer	Reference
ABS12	Cattle	15	SLATE <i>et al.</i> 1998
AFR227	Cattle	6	SLATE <i>et al.</i> 1998
AGLA226	Cattle	30	GEORGES and MASSEY 1992
AGLA232	Cattle	23	GEORGES and MASSEY 1992
AGLA280	Cattle	5	GEORGES and MASSEY 1992
AGLA293	Cattle	3	SLATE <i>et al.</i> 1998
B9	Red deer	XY	TATE 1997
BL4	Cattle	3	SMITH <i>et al.</i> 1997
BL42	Cattle	23	BISHOP <i>et al.</i> 1994
BL50	Cattle	5	BISHOP <i>et al.</i> 1994
BL1071	Cattle	23	SMITH <i>et al.</i> 1997
BM203	Cattle	32	SLATE <i>et al.</i> 1998
BM302	Cattle	21	BISHOP <i>et al.</i> 1994
BM305	Cattle	5	BISHOP <i>et al.</i> 1994
BM757	Cattle	28	SLATE <i>et al.</i> 1998
BM888	Cattle	12	SLATE <i>et al.</i> 1998
BM1225	Cattle	25	SLATE <i>et al.</i> 1998
BM1258	Cattle	7	SLATE <i>et al.</i> 2000
BM1311	Cattle	14	BISHOP <i>et al.</i> 1994
BM1329	Cattle	17	SLATE <i>et al.</i> 1998
BM1706	Cattle	14	SLATE <i>et al.</i> 1998
BM1815	Cattle	7	SLATE <i>et al.</i> 2000
BM1818	Cattle	7	SLATE <i>et al.</i> 2000
BM2934	Cattle	21	SLATE <i>et al.</i> 1998
BM3033	Cattle	12	STONE <i>et al.</i> 1995
BM3628	Cattle	24	SLATE <i>et al.</i> 1998
BM4005	Cattle	15	SLATE <i>et al.</i> 1998
BM4107	Cattle	25	BISHOP <i>et al.</i> 1994
BM4208	Cattle	26	SLATE <i>et al.</i> 2000
BM4311	Cattle	6	BISHOP <i>et al.</i> 1994
BM4513	Cattle	21	SLATE <i>et al.</i> 1998
BM6438	Cattle	31	BISHOP <i>et al.</i> 1994
BM6506	Cattle	19	SLATE <i>et al.</i> 2000
BM6526	Cattle	32	BISHOP <i>et al.</i> 1994
BM7109	Cattle	4	BISHOP <i>et al.</i> 1994
BMC1009	Cattle	3	BISHOP <i>et al.</i> 1994

Locus	Source species	Location in deer	Reference
BMC1222	Cattle	23	SLATE <i>et al.</i> 1998
BMS528	Cattle	12	STONE <i>et al.</i> 1995
BMS1185	Cattle	14	STONE <i>et al.</i> 1995
BMS1207	Cattle	14	STONE <i>et al.</i> 1995
BMS1248	Cattle	22	STONE <i>et al.</i> 1995
BMS1318	Cattle	12	STONE <i>et al.</i> 1995
BMS1669	Cattle	23	STONE <i>et al.</i> 1997
BMS2142	Cattle	3	STONE <i>et al.</i> 1995
BMS2319	Cattle	23	STONE <i>et al.</i> 1997
BMS2614	Cattle	12	STONE <i>et al.</i> 1997
BR3510	Cattle	1	SLATE <i>et al.</i> 1998
BR6504	Cattle	14	SLATE <i>et al.</i> 1998
C217	Mule deer	23	JONES <i>et al.</i> 2000
C276	Mule deer	19	LEVINE (PERS COM.)
CSRM060	Cattle	12	KUHN <i>et al.</i> 1996
CSSM3	Cattle	14	MOORE <i>et al.</i> 1994
CSSM14	Cattle	5	BARENDSE <i>et al.</i> 1994
CSSM16	Cattle	11	SLATE <i>et al.</i> 2000
CSSM19	Cattle	19	SLATE <i>et al.</i> 2000
CSSM26	Cattle	33	SLATE <i>et al.</i> 1998
CSSM29	Cattle	9	SLATE <i>et al.</i> 1998
CSSM32	Cattle	19	BARENDSE <i>et al.</i> 1994
CSSM39	Cattle	12	SLATE <i>et al.</i> 1998
CSSM41	Cattle	24	SLATE <i>et al.</i> 1998
CSSM43	Cattle	32	SLATE <i>et al.</i> 1998
CSSM65	Cattle	18	BARENDSE <i>et al.</i> 1994
CSSM66	Cattle	21	KUHN <i>et al.</i> 1996
Delta2	White-tailed deer	18	DEWOODY <i>et al.</i> 1995
Delta14	White-tailed deer	7	DEWOODY <i>et al.</i> 1995
ETH225	Cattle	28	KUHN <i>et al.</i> 1996
FSHB	Cattle	1	SLATE <i>et al.</i> 1998
HEL1	Cattle	1	KAUKINEN <i>et al.</i> 1993
HIS-H1	Cattle	24	SLATE <i>et al.</i> 2000
HUJ175	Cattle	24	SLATE <i>et al.</i> 1998
HUJ177	Cattle	20	SLATE <i>et al.</i> 1998
IDVGA8	Cattle	15	SLATE <i>et al.</i> 1998
IDVGA37	Cattle	8	SLATE <i>et al.</i> 1998
IDVGA46	Cattle	5	SLATE <i>et al.</i> 1998
IDVGA55	Cattle	4	SLATE <i>et al.</i> 1998
ILSTS5	Cattle	12	BREZINSKY <i>et al.</i> 1993
ILSTS6	Cattle	9	SLATE <i>et al.</i> 1998
ILSTS8	Cattle	21	KEMP <i>et al.</i> 1993A
ILSTS19	Cattle	2	KEMP <i>et al.</i> 1993B
ILSTS30	Cattle	33	KEMP <i>et al.</i> 1995
ILSTS33	Cattle	30	SLATE <i>et al.</i> 2000
ILSTS42	Cattle	3	KEMP <i>et al.</i> 1995
ILSTS87	Cattle	6	SLATE <i>et al.</i> 2000
ILSTS93	Cattle	17	SLATE <i>et al.</i> 1998

Locus	Source species	Location in deer	Reference
INRA5	Cattle	30	SLATE <i>et al.</i> 1998
INRA6	Cattle	20	SLATE <i>et al.</i> 1998
INRA11	Cattle	19	SLATE <i>et al.</i> 2000
INRA35	Cattle	14	SLATE <i>et al.</i> 2000
INRA37	Cattle	12	VAIMAN <i>et al.</i> 1994
INRA38	Cattle	4	VAIMAN <i>et al.</i> 1994
INRA40	Cattle	33	SLATE <i>et al.</i> 1998
INRA71	Cattle	12	VAIMAN <i>et al.</i> 1994
INRA107	Cattle	12	SLATE <i>et al.</i> 1998
INRA121	Cattle	4	SLATE <i>et al.</i> 1998
INRA130	Cattle	20	VAIMAN <i>et al.</i> 1994
INRA131	Cattle	11	SLATE <i>et al.</i> 1998
INRA169	Cattle	11	SLATE <i>et al.</i> 1998
IOBT965	Cattle	5	KUHN <i>et al.</i> 1996
IRBP = RBP3	Cattle	15	SLATE <i>et al.</i> 1998
JAB1	Cattle	1	SLATE <i>et al.</i> 1998
JAB4	Cattle	1	SLATE <i>et al.</i> 1998
JAB7	Cattle	11	SLATE <i>et al.</i> 1998
JAB8	Cattle	1	SLATE <i>et al.</i> 1998
JP13	Red deer	20	J. PEMBERTON (PERS. COM.)
JP14	Red deer	14	SLATE <i>et al.</i> 2000
JP15	Red deer	2	MARSHALL <i>et al.</i> 1998
JP18	Red deer	14	J. PEMBERTON (PERS. COM.)
JP23	Red deer	4	SLATE <i>et al.</i> 2000
JP27	Red deer	17	MARSHALL <i>et al.</i> 1998
JP38	Red deer	27	MARSHALL <i>et al.</i> 1998
McM136	Sheep	3	HULME <i>et al.</i> 1995
MGTG4B	Cattle	18	SLATE <i>et al.</i> 1998
MM12	Cattle	26	KUHN <i>et al.</i> 1996
NRAMP1	Red deer	8	MATTHEWS and CRAWFORD 1998
OarCP21	Sheep	28	EDE <i>et al.</i> 1995A
OarCP26	Sheep	18	SLATE <i>et al.</i> 2000
OarCP34	Sheep	11	EDE <i>et al.</i> 1995B
OarCP134	Sheep	13	PIERSON <i>et al.</i> 1994
OarFCB5	Sheep	3	SLATE <i>et al.</i> 2000
OarFCB193	Sheep	5	MARSHALL <i>et al.</i> 1998
OarFCB304	Sheep	24	MARSHALL <i>et al.</i> 1998
OarHH064	Sheep	18	HENRY <i>et al.</i> 1993
OarMAF18	Sheep	23	SLATE <i>et al.</i> 2000
OarMAF23	Sheep	3	SWARBRICK <i>et al.</i> 1991
OarMAF35	Sheep	27	MARSHALL <i>et al.</i> 1998
OarMAF50	Sheep	18	SWARBRICK <i>et al.</i> 1992
OarMAF70	Sheep	18	BUCHANAN and CRAWFORD 1992
OarMAF109	Sheep	19	MARSHALL <i>et al.</i> 1998
OarVH054	Sheep	13	SLATE <i>et al.</i> 2000
OarVH110	Sheep	2	HANRAHAN <i>et al.</i> 1993
OarVH116	Sheep	5	HANRAHAN <i>et al.</i> 1993
OCAM	Cattle	6	BARENDSE <i>et al.</i> 1994

Locus	Source species	Location in deer	Reference
PGAZac2	Gazelle	15	SLATE <i>et al.</i> 2000
PRL	Cattle	7	SLATE <i>et al.</i> 2000
RM4	Cattle	1	SLATE <i>et al.</i> 2000
RM12	Cattle	9	SLATE <i>et al.</i> 1998
RM32	Cattle	29	KOSSAREK <i>et al.</i> 1994
RM090	Cattle	12	SLATE <i>et al.</i> 2000
RM95	Cattle	31	SLATE <i>et al.</i> 2000
RM096	Cattle	11	KOSSAREK <i>et al.</i> 1995
RM178	Cattle	30	SLATE <i>et al.</i> 1998
RM188	Cattle	18	SLATE <i>et al.</i> 1998
RME025	Cattle	12	GROSSE <i>et al.</i> 1995
RT1	Caribou	26	SLATE <i>et al.</i> 2000
RT5	Caribou	15	SLATE <i>et al.</i> 2000
RT6	Caribou	19	SLATE <i>et al.</i> 2000
RT23	Caribou	12	WILSON <i>et al.</i> 1997
SPS113	Cattle	12	SLATE <i>et al.</i> 1998
S_2	Sheep	12	BANCROFT <i>et al.</i> 1995
T156	Elk	29	AF192396
T172	Elk	28	AF192397
T193	Elk	13	AF192398
T268	Elk	27	AF192399
T108B	Elk	20	AF191798
T27B	Elk	XY	AF193020
T115B	Elk	5	AF193021
TEXAN15	Cattle	22	BURNS <i>et al.</i> 1995
TGLA10	Cattle	29	SLATE <i>et al.</i> 1998
TGLA40	Cattle	10	SLATE <i>et al.</i> 1998
TGLA53	Cattle	14	GEORGES and MASSEY 1992
TGLA73	Cattle	26	SLATE <i>et al.</i> 1998
TGLA86	Cattle	2	SLATE <i>et al.</i> 1998
TGLA94	Cattle	5	MARSHALL <i>et al.</i> 1998
TGLA127	Cattle	20	SLATE <i>et al.</i> 1998
TGLA226	Cattle	8	SLATE <i>et al.</i> 1998
TGLA304	Cattle	25	SLATE <i>et al.</i> 1998
TGLA322	Cattle	5	SLATE <i>et al.</i> 1998
TGLA334	Cattle	14	GEORGES and MASSEY 1992
TGLA337	Cattle	13	SLATE <i>et al.</i> 1998
TGLA378	Cattle	12	SLATE <i>et al.</i> 1998
TGLA431	Cattle	33	SLATE <i>et al.</i> 1998
URB33	Cattle	10	MA <i>et al.</i> 1996
UWCA47	Cattle	29	SLATE <i>et al.</i> 1998
VIL1		8	L. SKOW (PERS. COMM.)

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Appendix 2:

RFLV probes mapped in deer

The source species, chromosomal location, GenBank accession number and supplier of each probe are described. ATCC = American type cell culture

Marker	Source species	Linkage group	Accession number	Source
ACO2	Pig	22	J05224	H. ZALKIN
ACP2	Human	1	X12548	ATCC
ADH5	Human	17	M12547	M. WATERMAN
ADRA1C	Cattle	16	J05426	R. J. LEFKOWITZ
AHSG	Cattle	19	X16577	W. M. BROWN
ALB	Sheep	6	X17055	W. M. BROWN
ALDOA	Human	10	M21190	D. R. TOLAN
ALPL	Cattle	8	M18443	E. GARATINI
AMBP	Pig	16	X52087	A. TAVAKKOL
AMY1	Human	20	M18671	ATCC
ANX1 <i>like1</i>	Human	24	X05908	ATCC
ANX1 <i>like2</i>	Human	1	X05908	ATCC
ASL <i>like</i>	Human	23	M14218	ATCC
ASS	Human	11	X01630	ATCC
AT3	Sheep	6	X15555	W. M. BROWN
ATP1A1	Sheep	20	X02813	J. B. LINGREL
ATP1B1	Sheep	14	X02813	J. B. LINGREL
BCHEL1	Sheep	19	M62780	O. LOCKRIDGE
BGLAP	Cattle	20	X53699	M. C. KIEFER
bib	Sheep	24		A. M. CRAWFORD
BMP3	Human	6	M22491	L. L. LISCHER
BoLaDIB	Cattle	7	U69097	R. T. STONE
BtaHa-ras2	Cattle	9	X17363	R. McCAFFREY
CAT	Human	1	X04076	ATCC
CBG	Sheep	13	X73615	G. L. HAMMOND
CD5	Cattle	2	X53061	Q. YU
CENPE	Human	17	X15005	T. J. YEN
CENPE <i>like1</i>	Human	30	X15005	T. J. YEN
CFTR	Human	18	M28668	L. TSUI
CGA	Cattle	28	X00050	R. A. MAURER
CHGA	Bovine	13	M16971	M. A. LEVINE
CHRN1	Bovine	5	X00962	K. IMOTO
CHRNA	Bovine	8	M28307	K. IMOTO
CLN3	Human	10	U32680	D. CALLEN
CLTA <i>like</i>	Cattle	12	X04849	V. PONNAMBALAM
CLTA <i>like2</i>	Cattle	20	X04849	V. PONNAMBALAM
CLTA <i>like3</i>	Cattle	4	X04849	V. PONNAMBALAM
COL1A1	Cattle	5		L. W. FISHER

Marker	Source species	Linkage group	Accession number	Source
COX7A1	Cattle	9	X15235	L. I. GROSSMAN
COX7A2	Cattle	6	X15235	L. I. GROSSMAN
CR2	Human	14	M26004	ATCC
CRH	Sheep	21	J00803	J. IMOTO
CRP	Human	20	K00518	ATCC
CRYGB	Cattle	8	M16894	J. M PETRASH
CSF2	Cattle	9	U22385	S. GILLIS
CYP17	Cattle	15	M12547	M. R. WATERMAN
CYP21	Cattle	7	M12918	M. R. WATERMAN
D17S852E	Human	5	M78721	ATCC
DCN	Cattle	3	Y00712	L. W. FISCHER
DNTT	Cattle	15	X04122	O. KOIWAI
DSG1	Cattle	27	X57784	W. W. FRANKE
ELN	Cattle	10	J02717	Y. OTA
EPO	Monkey	10	M18189	ATCC
ETS1	Human	2	J04101	A. REEVE
EVI1	Human	19	Hs.287359	E. PARGANAS
F12	Human	9	M11723	R. T. A. MACGILLIVRAY
FGF1	Human	9	M13361	J. ABRAHAM
FGF2	Cattle	5	M13340	J. ABRAHAM
FGG	Cattle	5	X15556	W. M. BROWN
FH	Human	14	M85904	ATCC
FN1	Human	8	X02761	F. E. BARALLE
FS	Sheep	25	M63123	D. TISDALL
FSHB	Cattle	1	M14853	R. A. MAURER
FSHR	Sheep	11	L07302	R. M. ROHAN
FYN	Human	28	M14333	ATCC
GGTB2	Cattle	16	M13214	J. H. SHARPER
GH	Goat	5	X07035	E. GOOTWINE
GHR	Pig	25	X54429	J. J. KOPCHICK
GNAT1	Cattle	24	X02440	M. LOCHRIE
GNB2	Cattle	10	M16539	J. A. INIGUEZ-LLUHI
GPI	Pig	4	M54975	I. HARBITZ
GPX1	Cattle	24	X13684	G. MULLENBACH
HBB	Goat	1		J. B. LINGREL
HBQ1	Human	33	X06482	ATCC
cDNA28128	Human	17	R13413	J. LUMSDEN
HSPA8	Cattle	1	X53827	D. B. MCKAY
IF	Human	17	J02770	G. GOLDBERGER
IFN1@	Sheep	29	Y00287	R. M. ROBERTS
IFNG	Sheep	3	X52640	C. J. MCINNES
IGF1R	Human	13	X04434	W. J. RUTTER
IGF2	Cattle	2	X53553	W. M. BROWN
IL2RA	Cattle	23	M20818	R. REEVES
IL2RB	Human	22	M26062	Z. LIU
INHBA	Sheep	18	L19218	R. CRAWFORD
INHBB	Sheep	33	AF115342	R. T. RODGERS
KIT	Human	6	X06182	ATCC

Marker	Source species	Linkage group	Accession number	Source
KRN1	Sheep	2	X55294	B. POWELL
LALBA	Cattle	3	M18780	W. L. HURLEY
LDHA	Cattle	2	D90143	N. ISHIGURO
LDLR	Cattle	9	M11341	H. H. HOBBS
LHB	Cattle	4	M10077	R. A. MAURER
LHCGR	Cattle	11	U08024	R. M. ROHAN
LPL	Pig	16	X62984	R. ANDERSON
MB	Cattle	22	D00409	H. SHIMADA
MTP	Sheep	17	X78567	ATCC
MYCN <i>like</i>	Human	12	X03294	J. M. BISHOP
MYF5	Cattle	3	X52526	R. IVARIE
MYF5 <i>like</i>	Cattle	10	X52526	R. IVARIE
NCAM	Mouse	1	Y00051	A. REEVE
NDUFV2	Cattle	27	X14724	A. CHOMYN
NDUFV2 <i>like</i>	Cattle	10	X14724	A. CHOMYN
NF1	Human	5	M60496	ATCC
NFKB1	Sheep	17	M58603	E. LORD
NTS	Cattle	3	M18621	P. R. DOBNER
OarRP11	Sheep	30	PMID:7818187	S. GALLOWAY
ORM1	Pig	16	M35990	R. T. STONE
P4H4	Cattle	5	M17596	K. YAMAUCHI
PAI1	Cattle	10	X16383	D. J. LUSKUTOFF
PAI2	Human	27	J02685	ATCC
PCCA	Human	30	M13572	ATCC
PDE6A	Cattle	9	M27541	V. E. ZAGRANICHNY
PDE6B	Cattle	6	J05553	V. E. ZAGRANICHNY
PDGFRA	Cattle	6	M21574	D. F. BOWEN-POPE
PDHA2	Human	17	M86808	H. DAHL
pgRIPaO/PLAT <i>like</i>	Human	17	NM000931	ATCC
PLA2GIB	Cattle	5	Y00120	Y. OTA
PLAU	Pig	15	X02724	Y. NAGAMINE
PLC154	Cattle	23	J03137	P. PARKER
POLR2E <i>like</i> 1	Human	29	XM009279	C. KEDINGER
POLR2E <i>like</i> 2	Human	22	XM009279	C. KEDINGER
POLR2A	Human	5	X63564	C. KEDINGER
POLR2B	Human	6	X63563	C. KEDINGER
POMC	Cattle	11	V00107	S. N. COHEN
PPP2C <i>like</i>	Cattle	19	M16968	M. C. MUMBY
PRKCB1	Cattle	10	M13973	A. SINGH
PRKCG	Human	4	M13977	ATCC
PRL	Cattle	7	J00022	R. A. MAURER
PRM2	Cattle	10	X16599	W. E. ENGEL
PRNP	Sheep	23	M31313	N. HUNTER
PSAP	Human	15	J03086	ATCC
PTGS1	Sheep	11	J03599	D. L. DEWITT
PV18 (KRT2A)	Deer	18		J. STANTON
PVALB	Rat	22	M12725	M. W. BERCHTOLD
RAP1A	Cattle	20	J04196	Y. TAKAI

Marker	Source species	Linkage group	Accession number	Source
RAP1GDS	Sheep	17	M63325	E. LORD
RBP3	Cattle	15	M27870	J. M. NICKERSON
S100A10	Cattle	20	M16464	T. HUNTER
SI	Rabbit	19	M14046	P. KELLER
SLC81	Cattle	11	L06438	J. P. REEVES
SOD1	Rat	31	Y00404	Y. HO
SOD2	Cattle	26	X54799	J. B. SHAFFER
SPARC	Human	9	J03040	L. W. FISHER
SPN	Human	10	J04168	ATCC
SPP1	Cattle	17	M66236	L. W. FISHER
SPTB	Human	12	M18054	ATCC
TCP1 <i>like</i>	Human	26	X52882	ATCC
TCRA	Cattle	12	D10394	N. ISHIGURO
TCRB	Cattle	18	D90138	N. ISHIGURO
TCRB <i>like1</i>	Cattle	10	D90138	N. ISHIGURO
TCRB <i>like2</i>	Cattle	16	D90138	N. ISHIGURO
TD02	Cattle	5	U32989	D. E. COMINGS
TG	Cattle	21	X02815	D. CHRISTOPHE
TGFB1	Deer	4	†	S. FRANCIS
TNP1	Pig	8	M80671	W. E. ENGEL
TSHB	Cattle	20	K01939	R. A. MAURER
TYR	Human	2	J03581	ATCC
VIM	Human	23	M18888	ATCC
WT1	Human	1	M30393	D. HEBER

† FRANCIS, S. M. and J. M. SUTTIE, 1996 The expression of growth factor genes in the tip of the growing deer antler. Proc. Aust. Soc. Endocrin. **39**: 138.

Appendix 3: ESTs mapped in deer

For each EST the source species and GenBank accession number are given. Additionally, each EST was compared against public databases using BLAST, and the sequence similarity, E value, human location and accession number of the best database match was noted. The last three columns refer to the deer chromosomal location, the expected location of the human ortholog and finally the actual location in humans of the best database hit. Of the 73 ESTs that gave a significant ($E < e^{-5}$) BLAST hit to public database sequence, 50 (68%) were concordant for their actual map and predicted map locations.

EST	Source species	Accession number	E value	Similarity (%)	Predicted human ortholog	Accession no. of ortholog	Deer location	Expected human location	BLAST human location
CM11	Cattle	BG985857	0	99.8	Bovine mitochondria	NC_001567.1	20	1	mitochondrial
CM13	Cattle	BG985858	8 x e-28	89.4	PHB	XM_008439.2	20	1	17q21
			5 x e-26	89.6	Chr 16 working draft	Hs16_10655	20	1	16
			5 x e-23	87.6	Chr 1 working draft	Hs1_22212	20	1	1
CM19	Cattle	BG985859	No hit			15	1,10		
CM21	Cattle	BG985860	3 x e-83	89.2	cDNA FLJ12629 fis	AK022691	10	7, 16	7
CM26	Cattle	BG985861	9.7 x e-9	65.5	Chr 2 working draft	AC079810	8	1,2	2q35
CM30	Cattle	BG985862	e-46	90.4	Chr 7 working draft	Hs7_7936	9	5, 19	7
			2 x e-8	90.6	Chr19 working draft	Hs19_11366	9	5, 19	19
CM31	Cattle	BG985863	2 x e-7	67.7	Chr 3 working draft	AC023523	10	7, 16	3p23
CM34	Cattle	BG985864	e-5	96.9	ZNF174	XM_007978	10	7, 16	16p13.3
CM35	Cattle	BG985865	e-15	92.1	Chr 19 working draft	Hs19_25282	23	10, 20	19
			8 x e -11	100	Chr 10 clone CIT987SK-1137I1	AC005872	23	10, 20	10
CM37	Cattle	BG985866	6 x e-9	82.2	Chr 20 clone RP4-687F11	HSJ687F11	23	10, 20	20
CM54	Sheep	BI094680	e-113	94.2	RPL11	L05092.1	11	2, 9	1p36
CM58	Sheep	BI094681	0	92.9	RPLPO	AF013214	30	13	12
CM64	Sheep	BI094682	0	93.7	RPL30	AF063243	32	4, 8	8
CM73	Sheep		4 x e-6	86.1	HSPC158	XM_003696.2	9	5, 19	5

EST	Source species	Accession number	E value	Similarity (%)	Predicted human ortholog	Accession no. of ortholog	Deer location	Expected human location	BLAST human location
CM76	Sheep		No hit				5	4, 12, 17	
CM85	Red deer		3 x e-76	91.2	FGF1	XM_003647.3	9	5,19	5q31
CM100	Sheep		3 x e-61	84.0	Chr12q15 BAC RP11-81H14	AC008033	29	9	12
			8 x e-59	88.9	Chr 9 working draft	AK025466	29	9	9
CM102	Sheep		2.8 x e-165	85.7	CTGF	HSU14750	26	6	6q23.1
CM108	Sheep	BG874243	e-147	92.4	PGR1	AF116272	6	4, 11	4
CM111	Sheep	BG874244	e-129	95.5	ATPSB	NM_001686	13	14, 15	12p13
CM115	Sheep	BG874245	5 x e-76	93.9	FLJ20725	XM_007335.1	32	4, 8	14
CM118	Sheep	BG874246	e-161	88.6	DAP3	NM_004632.1	20	1	1q21
CM122	Sheep	BG874247	e-110	88.4	SRP14	HSU07857	12	14, 15	15q22
CM123	Sheep	BG874248	0	90.7	similar to SEPP1	XM_005137.1	25	5	5q31
CM124	Sheep	BG874249	e-132	91.0	RPL29	NM_000992.1	33	2, 3	3
CM125	Sheep	BG874250	0	93.4	TREB	HSTREB36A	3	12	12q13
CM126	Sheep	BG874251	7 x e-18	89.4	Chr 11 working draft	Hs11_9333	1	11	11
CM133	Sheep	BG874252	6 x e-30	76.7	mitochondrial DNA	HUMMTA	23	10, 20	mitochondrial
			e-25	82.3	Chr 10 working draft	Hs10_24284	23	10, 20	10
CM142	Sheep	BG874253	No hit				30	13	
CM145	Sheep	BG874254	e-135	91.0	JBP1	AF167572	12	14, 15	14q11-21
CM149	Sheep	BG874255	No hit				24	3	
CM154	Sheep	BG874256	e-179	89.9	RPL3	HSRPL3A	17	4	22q12
CM160	Sheep	BG874257	e-173	90.9	DLC1	XM_005256.1	32	4, 8	8p22-21
CM161	Sheep	BG874258	5 x e-40	86.4	Chr 9 working draft	HS9_8492	29	9	9
CM165	Sheep	BG874259	5 x e-37	85.3	Chr 6 clone 238G2	HS238G2	26	6	6q23.2-25.3
CM173	Sheep	BG874260	e-164	96.0	CrkRS	XM_008558.1	5	4, 12, 17	17
CM184	Sheep	BG874261	No hit				5	4, 12, 17	
CM189	Sheep	BG874262	e-118	93.9	HT010	XM_002378.1	11	2, 9	2
CM192	Sheep	BG874263	e-131	95.6	HT010	XM_002378.1	10	7, 16	2
CM195	Sheep	BG874264	e-165	89.1	UQCRC2	XM_007854.1	5	4, 12, 17	16p12
CM196	Sheep	BG874265	0	93.5	DDX5	XM_008344.1	11	2, 9	17
CM219	Sheep	BG874266	5.9 x e-31	76.6	Chr 2 working draft	AC009477	33	2, 3	2q21.2
CM234	Red deer		4 x e-36	92.1	VDAC1	NM_03374.1	9	5, 19	5q31
CM238	Red deer		e-106	90.8	COL3A1	XM_002352.2	33	2, 3	2q31
CM240	Red deer		e-129	93.4	DPT	XM_001897.2	14	1	1q12-23

EST	Source species	Accession number	E value	Similarity (%)	Predicted human ortholog	Accession no. of ortholog	Deer location	Expected human location	BLAST human location
CM242	Red deer		e-26	92.2	COL1A1	XM_012651.1	9	5, 19	17q21.31-22
CM250	Sheep	BG874267	5 x e-16	97.9	TSA305	AB02474S17	12	14, 15	14q24.3
CM251	Sheep	BG874268	0	91.8	Chr X working draft	HsX_26116	24	3	X
CM257	Sheep	BG874269	4.8 x e-13	69.4	Chr 6 working draft	AC040906	28	6	6q22.32
CM260	Sheep	BG874270	6.6 x e-24	79.9	Chr 17 working draft	AC015922	25	5	17p11.2
			2 x e-5	86.6	Chr 5 clone PAC100G21	HSAJ9615	25	5	5
CM275	Sheep	BG874271	1 x e-170	92.7	Chr1 clone RP11-96K19	AL360270	20	1	1
CM283	Sheep	BG874272	No hit				11	2, 9	
CM284	Sheep	BG874273	No hit				28	6	
CM286	Sheep	BG874274	3 x e-34	85.8	SPINT2	XM_009173.1	20	1	19q13
CM288	Sheep	BG874275	2 x e-9	87.8	SEPP1	NM_005410.1	28	6	5
CM289	Sheep	BG874276	No hit				28	6	
CM293	Cattle	BG948844	0	91.6	KIAA0266	NM_021645.1	18	7	13
CM298	Cattle	BG948845	7 x e-26	94.9	Chr 1 clone GS1-115G20	HSG115G20	20	1	1
CM316	Cattle	BG948846	3 x e-53	88.1	PGR1	AF116272	X	X	4
			3 x e-28	89.5	Chr X working draft	HsX_11996	X	X	X
CM320	Cattle	BG948847	7 x e-36	85.1	FCGRT	NM_004107.1	4	19	19q13
CM327	Cattle	BG948848	4 x e-98	87.4	MYOC	NM_00026.1	14	1	1q23-24
CM328	Cattle	BG948849	3 x e-13	81.1	Chr 4 working draft	Hs4_6438	6	4	4
CM332	Cattle	BG948850	0	92.9	EIF4B	NM_001417.1	5	4, 12, 17	12
CM340	Cattle	BG948851	e-115	88.3	HLA-DQB1	HUMMHDRB	7	6	6p21.3
CM345	Cattle	BG948852	3 x e-74	91.3	PTD015	NM_014040.1	20	1	11
CM357	Cattle	BG948853	8 x e-42	89.2	Chr19 clone CTC-429C10	AC011460	28	6	19
CM366	Cattle	BG948854	7 x e-17	85.6	WDR6	NM_018031.2	24	3	15q21
CM369	Cattle	BG948855	e-124	88.2	FABP3	NM_004102.2	8	1, 2	1p33
CM372	Cattle	BG948856	5 x e-64	85.5	ATIC	NM_004044.1	6	4	2
CM406	Cattle	BG948857	9 x e-54	82.2	FCGR1A	NM_000566.1	20	1	1q21.2-21.3
CM424	Cattle	BG948858	e-100	90.1	TAF2G	XM_003844.1	7	6	5q11-13
CM454	Cattle	BG948859	9 x e-84	87.5	MGST3	XM_001874.1	12	14, 15	1q23
CM455	Cattle	BG948860	6 x e-20	89.8	EIF2AK3	AF193339	11	2, 9	2p12
CM523	Sheep	BG874277	No hit				8	1, 2	
CM530	Sheep	BG874278	No hit				12	14, 15	
CM534	Sheep	BG874279	e-154	94.9	KIAA0016	NM_014765.1	15	1, 10	1q42

EST	Source species	Accession number	E value	Similarity (%)	Predicted human ortholog	Accession no. of ortholog	Deer location	Expected human location	BLAST human location
CM669	Sheep	BG874280	2 x e-54	87.1	Chr 3 clone RP11-264H3	AC026179	8	1, 2	3p
CM690	Sheep	BG874281	6 x e-20	83.4	ARPP-19	AF084555	4	19	15
CM693	Sheep	BG874282	e-118	94.6	XIP	XM_002143.1	20	1	1
CM694	Sheep	BG874283	2 x e-99	91.4	PFN2	XM_002978.1	12	14, 15	3q25
CM728	Sheep	BG874284	2 x e-27	82.2	NSF	NM_006178.1	5	4, 12, 17	17q21
CM755	Sheep	BG874285	0	97.8	Ovine mitochondria	AF010406	20	1	mitochondrial
			5 x e-13	88.1	Chr 1 working draft	Hs1_22146	20	1	1
CM762	Sheep	BG874286	0	96.8	Ovine mitochondria	AF010406	20	1	mitochondrial
CM764	Sheep	BG874287	0	93.0	RPL9	XM_003426.1	32	4, 8	4p13
CM776	Sheep	BG874288	0	92.8	TPRC	HSTPRCGEN	9	5, 19	1q21
CM777	Sheep	BG874289	e-126	89.0	Chr 16 working draft	Hs16_1076	10	7, 16	16
CM781	Sheep	BG874290	0	91.0	FACL3	XM_002405.1	24	3	2q34-35
			9 x e-48	84.5	Chr 3 working draft	Hs3_22549	24	3	3
CM789	Sheep	BG874291	2 x e-27	85.6	KIAA0062	HUMORFKG1	16	8, 9	8
CM792	Sheep	BG874292	e-126	91.6	G3BP	NM_005754.1	5	4, 12, 17	5
CM795	Sheep	BG874293	2 x e-97	92.7	KIAA0016	D13641	26	6	1q42
CM820	Sheep	BG874294	5.2 x e-28	72.6	Chr 17 working draft	AC009837	5	4, 12, 17	17
CM823	Sheep	BG874295	No hit				32	4, 8	
CM837	Sheep	BG874296	0	94.4	KIAA0016	D13641	13	14, 15	1q42