

JH						CH1 exon																		
ACC	ATG	GTC	ACC	GTC	ACT	TCA	GAT	ACA	GGT	ACA	TCT	GCT	ATT	TTC	CCC	CTG	GTT	CCC	57					
T	M	V	T	V	T	S	D	T	G	T	S	A	I	F	P	L	V	P	19					
TGC	TGT	TCA	CTG	GCC	CAG	AGT	ATG	CAA	GAA	AAT	ATC	CTA	ATT	GGC	TGC	ATT	ATA	ATA	114					
C	C	S	L	A	Q	S	M	Q	E	N	I	L	I	G	C	I	I	I	38					
GGT	TCA	GTA	AAG	CCA	GAG	ACA	ATT	GAG	TGG	ACA	ACA	AAA	GAT	AAA	AGT	CAA	GTT	AAT	171					
G	S	V	K	P	E	T	I	E	W	T	T	K	D	K	S	Q	V	N	57					
GAA	AAA	AGA	TAT	GAT	GCT	GCT	CAA	ATC	AGC	ATT	CTG	GCC	ATT	CCA	TCT	CAG	GAT	TGG	228					
E	K	R	Y	D	A	A	Q	I	S	I	L	A	I	P	S	Q	D	W	76					
AAC	AAT	AAG	CAT	TTT	ACC	TGC	TCT	ATC	AAG	GAA	GAT	AAT	ACA	AAT	AAA	AAG	TTC	GAC	285					
N	N	K	H	F	T	C	S	I	K	E	D	N	T	N	K	K	F	D	95					
CH2 exon						CH1 exon																		
CTA	CAA	AGA	AGG	TGC	GGA	AAA	AGC	TAT	TCA	GAT	CCC	ATA	GTT	ACC	TTG	ATA	TCT	342						
L	Q	R	R	C	G	K	S	Y	S	D	P	I	V	E	T	L	I	S	114					
TCC	TGT	GCA	GCT	ATA	GAT	ATA	GTA	CCT	CTG	ACT	TGT	TTT	GTT	ACC	AAC	TTT	AGG	CCA	399					
S	C	A	A	I	D	I	V	P	L	T	C	F	V	T	N	F	R	P	133					
AAT	GTA	ACT	AAA	CTG	GTC	TGG	CTT	AGA	AAT	GGT	GTC	GCT	GAA	AAT	AAT	TAT	GTT	GGA	456					
N	V	T	K	L	V	W	L	R	N	G	V	A	E	N	N	Y	V	G	152					
TTC	AGC	CCT	GAA	TTA	GAC	AAT	GCA	CAT	ATT	GTT	ATG	GGA	AAG	AGC	ATT	AAG	AAT	GTG	513					
F	S	P	E	L	D	N	A	H	I	V	M	G	K	S	I	K	N	V	171					
TCA	AGT	GAA	AGC	TGG	AAT	AAA	GAG	GAT	ATA	TAT	ACA	TGT	CAG	GTG	ACC	TCC	CAT	GAT	570					
S	S	E	S	W	N	K	E	D	I	Y	T	C	Q	V	T	S	H	D	190					
CH3 exon						CH1 exon																		
AAA	TCA	ATC	ATC	AGG	AAC	ATC	AGC	AGA	TGT	TCA	GCA	TGC	CAG	AGC	ACC	TCT	GGG	GAT	627					
K	S	I	I	R	N	I	S	R	C	S	A	C	Q	S	T	S	G	D	209					
CCT	GTT	GTA	ATA	CTG	GAT	CAG	CCA	ACA	AAT	GAA	GAA	TTG	TTT	TCT	AAT	GAA	GCC	AAA	684					
P	V	V	I	L	D	Q	P	T	N	E	E	L	F	S	N	E	G	K	228					
ATT	ACT	TGC	ACA	GTC	TTT	GGG	AGT	AAA	TTG	GAT	ATC	AAG	GAA	GTA	TAC	GTA	AAA	AGA	741					
I	T	C	T	V	F	G	S	K	L	D	I	K	E	V	Y	V	K	R	247					
AAC	GGG	ATT	AAA	GTC	AAC	ACT	GAA	GAC	AAC	AAA	ACA	CAA	GAT	GAT	AAA	CAT	GTA	AAG	798					
N	G	I	K	V	N	T	E	D	N	K	T	Q	D	D	K	H	V	K	266					
ATC	ACT	TAC	AAG	ATT	ACA	CTT	GAA	CAA	TGG	GAA	TCA	ACC	ACA	GAA	TTA	TCA	TGT	GTG	855					
I	T	Y	K	I	T	L	E	Q	W	E	S	T	T	E	L	S	C	V	285					
CH4 exon						CH1 exon																		
GCT	ACC	AAG	TAT	TGC	ACT	AGC	ACA	GAC	ACT	GAA	AAG	ACT	ATA	AAA	ATA	GAA	AAG	AAA	912					
A	T	K	Y	C	T	S	T	D	T	E	K	T	I	K	I	E	K	K	304					
AAG	ACA	GAG	CCT	AAA	GAC	TTC	AAA	ATC	CCA	TCC	GTC	TCT	GTG	TCC	AGA	CTT	TAC	CAC	969					
K	T	E	P	K	D	F	K	I	P	S	V	S	V	S	R	L	Y	H	323					
CAT	GAA	TTT	CAG	GAA	GGG	GAA	TGG	ATC	ACT	CTG	ATC	TGC	AAA	GTC	ACT	GGA	TTT	TAC	1026					
H	E	F	Q	E	G	E	W	I	T	L	I	C	K	V	T	G	F	Y	342					
CCA	GAA	GAG	ATT	GGT	ATC	AAG	TGG	GAA	AAT	AAG	AAT	AAG	GGG	GTC	AGT	GCA	TCT	TCA	1083					
P	E	E	I	G	I	K	W	E	N	K	N	K	G	V	S	A	S	S	361					
TAT	ACC	AGA	AGT	CCA	GTG	AGT	TGT	TCT	GAG	AGA	AGC	TGC	TCT	GCC	TTT	AGT	CTC	TTG	1140					
Y	T	R	S	P	V	S	C	S	E	R	S	C	S	A	F	S	L	L	380					
AAA	TTT	TCC	AAG	AAG	GAG	GAA	ATA	GGA	GGG	TAC	CAA	TGT	GTT	ATA	CAG	CAC	AAG	AGC	1197					
K	F	S	K	K	E	E	I	G	G	Y	Q	C	V	I	Q	H	K	S	399					
CH5 exon						CH1 exon																		
TTA	AAA	CAG	CCC	AAC	CGA	AGG	ATT	TCC	CAA	AAA	GTA	ACA	GAG	ACC	CAA	AGA	GAA	CCT	1254					
L	K	Q	P	N	R	R	I	S	Q	K	V	T	E	T	Q	R	E	P	418					
TCT	GTT	CTT	GTT	CTT	CAA	TCT	TCT	GAT	TCG	GAG	GAG	AAA	AAA	ACT	CTT	GCC	TGT	ATT	1311					
S	V	L	V	L	Q	S	S	D	S	E	E	K	K	T	L	A	C	I	437					
GCG	GAT	GGA	CAC	TTT	CCC	AAG	GAC	ATA	AAG	ATT	GAA	TGG	AAA	CTT	CAT	GAT	GGA	AGT	1368					
A	D	G	H	F	P	K	D	I	K	I	E	W	K	L	H	D	G	S	456					
ACG	CTT	CCT	TCC	TCA	ACT	GAA	ACA	GAC	TAC	AAG	AAC	AAT	GGG	ACC	TTT	AGA	ACA	ATT	1425					
T	L	P	S	S	T	E	T	D	Y	K	N	N	G	T	F	R	T	I	475					
TGT	AGC	ATT	CCA	GTT	AAG	AAA	GAC	TAT	TGG	GCC	ATG	GGC	CAT	ACC	TAC	AAA	TGT	GAA	1482					
C	S	I	P	V	K	K	D	Y	W	A	M	G	H	T	Y	K	C	E	494					
CH6 exon						CH1 exon																		
GTC	ACA	CAT	AAA	TCT	ATA	GTG	AAA	AAG	ATA	GTG	AAG	AAC	ATT	AAT	GCA	TTT	GGT	CTC	1539					
V	T	H	K	S	I	V	K	K	I	V	K	N	I	N	A	F	G	L	513					
TTT	GCT	AGT	AAG	ACT	TCA	CAT	GTT	TCT	TGT	GTG	ACC	AAT	GCC	ATC	AAT	GCT	TCC	ATA	1596					
F	A	S	K	T	S	H	V	S	C	V	T	N	A	I	N	A	S	I	532					
AAG	TGG	ATT	TTA	GAT	GGG	AAG	CCA	AGA	TTA	CAA	AAT	GAT	AGT	AAG	GAA	CAA	ATA	ATC	1653					
K	W	I	L	D	G	K	P	R	L	Q	N	D	S	K	E	Q	I	I	551					
CAT	AAT	AAT	AGG	ACC	TGG	ATC	AAA	AGC	ACC	ATT	AGC	ATT	GGC	TTT	AAA	GAA	TGG	AAT	1710					
H	N	N	R	T	W	I	K	S	T	I	S	I	G	F	K	E	W	N	570					
GCA	GCT	TCC	AAT	TTT	AGC	TGT	ATG	TTG	GAT	GTT	CCA	AAG	GAA	CTG	CCA	CAA	AGC	CAG	1767					
A	A	S	N	F	S	C	M	L	D	V	P	K	E	L	P	Q	S	Q	589					
CH7 exon						CH1 exon																		
TTG	AAG	ACA	TAC	AAG	ACC	CAA	AGA	GAA	CCC	TCT	GTT	CTT	GTA	CTT	CAA	TCT	CCT	GAT	1824					
L	K	T	Y	K	T	Q	R	E	P	S	V	L	V	L	Q	S	P	D	608					
TCT	GAG	GAA	AGG	AAA	ACA	CTT	GTC	TGT	ATT	GCG	GAT	GGA	CAC	TTT	CCC	AAA	GAA	ATA	1881					
S	E	E	R	K	T	L	V	C	I	A	D	G	H	F	P	K	E	I	627					
AAG	GTT	GAA	TGG	AAA	GTT	CAT	AAT	GAA	AGT	CTA	GAT	TCT	TCT	TAT	AAT	GAA	ACA	GAG	1938					

