

(a)

		Signal sequence (21 amino acids)				Cleavage site	p.Arg25Cys		
Exon 2	A₁	MRCGPLYRFL	WLWPYLSYVE	AVPIRKVQDD	TKTLIKTIIVT	RINDISHT		48	
	B₁	-----	-----	-----C-----	-----	-----		48	
	C₁	-----	-----	-----	-----	-----		48	
	D₁	-----	-----	-----	-----	-----		48	
Goat		-----	-----	-----	-----	-----		48	
Sheep		--LE--C--	-V-C--C-I-	NLSVQA	-----	-----		48	
Yak		--S-----	-----	S-----	-----	-----		48	

(b)

						p.Ala80Val	
Exon 3	A₃	QSVSSKQRVT	GLDFIPGLHP	LLSLSKMDQT	LAIYQQILTS	LPSRNVVQ	96
	B₃	-----	-----	-----	-----V-----	-----	96
	C₃	-----	-----	-----	-----	-----	96
Goat		-----	-----	-----	-----	-----A-----I-	96
Sheep		-----	-----	-----	-----	-----	96
Yak		-----	-----	-----	-----	-----	96

Exon 3	A₃	ISNDLENLRD	LLHLLAASKS	CPLPQVRAL	SLES	GLGVVLE	ASLYSTEV	144
	B₃	-----	-----	-----	-----	-----	-----	144
	C₃	-----	-----	-----	-----	-----	-----	144
Goat		-----	-----	-----	-----	-----	-----	144
Sheep		-----	-----	-----	-----	-----	-----	144
Yak		-----	-----	-----	-----	-----	-----	144

Exon 3	A₃	VALSRLQGSLQD	MLRQLDLS	PG C	167
	B₃	-----	-----	-	167
	C₃	-----	-----	-	167
Goat		-----	-----	-	167
Sheep		-----	-----	-	167
Yak		-----	-----	-	167