

Supplementary Materials

NMR Structure of the Myristylated Feline Immunodeficiency Virus Matrix Protein

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Table S1. Myristylation signal of myristylated feline proteins. Note that many myristylated feline proteins have the consensus mammalian myristyl signal M-G-X-X-X-S pattern. The sixth residue is in the bolded box.

Feline Protein	Myristyl Signal						Accession Number
Recoverin	M	G	N	S	K	S	XP_003996258.1
neuronal tissue-enriched acidic protein	M	G	G	K	L	S	XP_003981588
tyrosine-protein kinase Lyn isoform 1	M	G	C	I	K	S	XP_003999866.1
Tyrosine-protein kinase Yes	M	G	C	I	K	S	XP_003995101.1
nitric oxide synthase	M	G	N	L	K	S	XP_003983267.1
calcineurin subunit B type 2	M	G	N	E	A	S	XP_003995756.1
calcineurin type 2	M	G	N	E	A	S	XP_003995756.1
ADP-ribosylation factor 4	M	G	L	T	I	S	XP_003982414.1
Paladin	M	G	T	T	A	S	XP_003994073
tyrosine-protein kinase -SRC	M	G	S	N	K	S	XP_003994073
NADH cytochrome reductase	M	G	F	Q	P	S	XP_003999428.1
ADP-ribosylation factor 3	M	G	N	I	F	G	XP_003988679.1
annexin XIII	M	G	N	R	H	A	XP_004000148.1
myristylated and palmitylated serine-threonine kinase MPSK	M	G	H	A	L	C	XP_003991222.1
tyrosine-protein kinase Fgr	M	G	C	V	F	C	XP_003989804.1

Table S2. Sequence alignment of first twelve amino acid residues of several isolates of FIV. Glycine 6 (bolded column) is conserved throughout the species (FIV sequences kindly provided by Brian Foley, HIV databases, www.hiv.lanl.gov).

FIV Isolate	Myristyl Signal											
FIVPETLM	M	G	N	G	Q	G	R	D	W	K	M	A
FIVZ1 X57002	M	G	N	G	Q	G	R	D	W	K	M	A
FIVUSIL2489	M	G	N	G	Q	G	R	D	W	K	M	A
FIV-C AF474246	M	G	N	G	Q	G	R	D	W	K	V	A
FIVUSCAPPR	M	G	N	G	Q	G	R	D	W	K	M	A
FIVJPTM2	M	G	N	G	Q	G	R	D	W	K	M	A
FIVPleE EU117992	M	G	N	E	Q	G	K	E	V	K	A	A
FIVKZOMA	M	G	N	E	Q	G	K	E	V	K	A	A
FIVPleB EU117991	M	G	N	E	Q	G	K	E	V	K	A	A
PLB14CG	M	G	N	N	Q	G	K	E	L	K	A	A
PLV_vanc DQ192583	M	G	N	E	S	G	K	E	E	R	I	I
PCOJM01 EF455609	M	G	N	E	S	G	K	E	E	R	V	I
PCOYM137 EF455609	M	G	N	E	S	G	K	E	E	R	V	I
PCOYM137 EF455609	M	G	N	E	S	G	K	E	E	R	V	I
PCOYM137 EF455611	M	G	N	E	S	G	K	E	E	R	V	I
PCOJF6 EF455610	M	G	N	E	S	G	K	E	E	R	V	I
PCOSR631 EF455613	M	G	N	E	S	G	K	E	E	R	V	I
PCOSR631 EF455614	M	G	N	E	S	G	K	E	E	R	V	I
PCOYF127 EF455612	M	G	N	E	S	G	K	E	E	R	V	I
PCOGC34 EF455603	M	G	N	E	S	G	K	E	E	R	V	I
PCOMC350 EF455604	M	G	N	E	S	G	K	E	E	R	V	I
PCOMC121 EF455606	M	G	N	E	S	G	K	E	E	R	V	I
PCOYM29 EF455607	M	G	N	E	S	G	K	E	E	R	V	I
PCOYF16 EF455608	M	G	N	E	S	G	K	E	E	R	V	I
PCOCOLV EF455615	M	G	N	E	S	G	K	E	E	R	V	I
PCOMC100 EF455605	M	G	N	E	S	G	K	E	E	R	I	I