

S2 Table. Bovine and ovine PrP semi-tryptic peptides used for N-terminal amino acid profiling. The semi-tryptic peptides are the product of N-terminal cleavage by PK of tryptic peptide T7-T9, a sequence which includes two KP missed cleavages. Amino acid residues in bold: bovine/ovine interspecies polymorphisms. pE denotes a pyroglutamyl N-terminal amino acid residue.

N-terminus	Bovine	In Assay	Plotted	Ovine	In Assay	Plotted
G77	GQPHGGGGWGQPHGGGGWGQGG THG QWNKPSKPK	✓	✓	GQPHGGGGWGQPHGGGGWGQGG SHS QWNKPSKPK	✓	✓
G81	GGGWGQPHGGGGWGQGG THG QWNKPSKPK	✓	✓	GGGWGQPHGGGGWGQGG SHS QWNKPSKPK	✓	✓
G85	GQPHGGGGWGQGG THG QWNKPSKPK	✓	✓	GQPHGGGGWGQGG SHS QWNKPSKPK	✓	✓
Q86	QPHGGGGWGQGG THG QWNKPSKPK	✓	✓	QPHGGGGWGQGG SHS QWNKPSKPK	✓	✓
pE86	pEPHGGGGWGQGG THG QWNKPSKPK	✓	✓	pEPHGGGGWGQGG SHS QWNKPSKPK	✓	✓
P87	PHGGGGWGQGG THG QWNKPSKPK	✗	✗	PHGGGGWGQGG SHS QWNKPSKPK	✓	✗
H88	HGGGGWGQGG THG QWNKPSKPK	✗	✗	HGGGGWGQGG SHS QWNKPSKPK	✓	✗
G89	GGGGWGQGG THG QWNKPSKPK	✓	✓	GGGGWGQGG SHS QWNKPSKPK	✓	✓
G90	GGGWGQGG THG QWNKPSKPK	✓	✓	GGGWGQGG SHS QWNKPSKPK	✓	✓
G91	GGWGQGG THG QWNKPSKPK	✓	✓	GGWGQGG SHS QWNKPSKPK	✓	✓
G92	GWGQGG THG QWNKPSKPK	✓	✓	GWGQGG SHS QWNKPSKPK	✓	✓
W93	WGQGG THG QWNKPSKPK	✓	✓	WGQGG SHS QWNKPSKPK	✓	✓
G94	GQGG THG QWNKPSKPK	✓	✓	GQGG SHS QWNKPSKPK	✓	✓
Q95	QGG THG QWNKPSKPK	✓	✓	QGG SHS QWNKPSKPK	✓	✓
pE95	pQGG THG QWNKPSKPK	✓	✓	pEGG SHS QWNKPSKPK	✓	✓
G96	GG THG QWNKPSKPK	✓	✓	GG SHS QWNKPSKPK	✓	✓
G97	G THG QWNKPSKPK	✓	✓	G SHS QWNKPSKPK	✓	✓
T98/S98	THG QWNKPSKPK	✓	✓	SHS QWNKPSKPK	✓	✓
H99	H G QWNKPSKPK	✓	✓	H S QWNKPSKPK	✓	✓
G100/S100	G QWNKPSKPK	✓	✓	S QWNKPSKPK	✓	✓
Q101	QWNKPSKPK	✓	✓	QWNKPSKPK	✓	✓
pE101	pEWNKPSKPK	✓	✓	pEWNKPSKPK	✓	✓
W102	WNKPSKPK	✓	✓	WNKPSKPK	✓	✓
N103	NKPSKPK ^a	✓	✗	NKPSKPK	✓	✗

^a Unfavourable chromatographic properties (too hydrophilic) do not allow this peptide to be reliably detected