

START-END AA	AMINO ACID SEQUENCE	PMF	LIFT TOF/TOF	MS/MS (charge state)	ENZYME
22-35	GVTITPLMLGYTMF	-		X (2 <sup>+</sup> )	Trypsin & Endoproteinase AspN (1 & 2 Met Ox)
50-62	DSVELD	-		X (2 <sup>+</sup> )	Trypsin & Endoproteinase AspN
51-62	SVELDDDLFVGA	-		X (2 <sup>+</sup> )	Proteinase K
56-82	DDLFVGAALGVELTPWLGFEAEYSQIK	-		X (3 <sup>+</sup> )	Trypsin & Endoproteinase AspN
63-77	ALGVELTPWLGFEAE	-		X (2 <sup>+</sup> )	Elastase
65-82	GVELTPWLGFEAEYSQIK	-		X (2 <sup>+</sup> ) (3 <sup>+</sup> )	Trypsin unspecific cleavage
67-79	ELTPWLGFEAEYS	-		X (2 <sup>+</sup> )	Elastase
83-93	GDTSVAGNEYK	X		X (2 <sup>+</sup> )	Trypsin
83-110	GDTSVAGNEYKGENIAGNFYVTSDFLTK	X		X (3 <sup>+</sup> )	Trypsin
84-105	DTSVAGNEYKGENIAGNFYVTS	X		-	Endoproteinase AspN
89-110	GNEYKGENIAGN	-		X (2 <sup>+</sup> )	Elastase
94-105	GENIAGNFYVTS	-		X (2 <sup>+</sup> )	Trypsin & Endoproteinase AspN
94-110	GENIAGNFYVTSDFLTK	X		X (2 <sup>+</sup> ) (3 <sup>+</sup> )	Trypsin
105-114	SDLFTKNYDS	-		X (2 <sup>+</sup> )	Elastase
113-131	DSKIKPYALLGAGHYKYEF	X		-	Endoproteinase AspN
116-128	IKPYALLGAGHYK	X		-	Trypsin (5')
116-137	IKPYALLGAGHYKYEF TDAGR	X		-	Trypsin
120-128	ALLAGAGHYK	-		X (2 <sup>+</sup> ) (3 <sup>+</sup> )	Trypsin unspecific cleavage
128-136	KYEF DTDAG	-		X (2 <sup>+</sup> )	Elastase
129-137	YEF DTDAGR	X		X (2 <sup>+</sup> )	Trypsin

129-141	YEFDTDAGRAGR	-		X (2 <sup>+</sup> ) (3 <sup>+</sup> )	Trypsin
138-155	AGRGLDEEGTLGNAGLGA	-		X (2 <sup>+</sup> )	Elastase
138-158	AGRGLDEEGTLGNAGLGAFWR	X		-	Trypsin (only 5')
141-155	GLDEEGTLGNAGLGA			X (2 <sup>+</sup> )	Elastase
141-158	GLDEEGTLGNAGLGAFWR	X		X (2 <sup>+</sup> )	Trypsin
143-160	DEEGTLGNAGLGAFWRIN	X		-	EndoproteinaseAspN
159-166	INDALSLR	X		X (2 <sup>+</sup> ) (3 <sup>+</sup> )	Trypsin
159-169	INDALSLRTEA	-		X (2 <sup>+</sup> )	Elastase
159-170	INDALSLRTEAR	X		-	Trypsin
161-175	DALSLRTEARGTYHF	X		-	EndoproteinaseAspN
171-197	GTYHFDEQFWNYTALAGLNVVLGGHLK	X	X	-	Trypsin
173-182	YHFDEQFWNY	-		X (2 <sup>+</sup> )	Proteinase K
198-230	PAAPVVEVVPVEPTPIVEPQPQELTEDLN MELR	X	X	X (3 <sup>+</sup> )	Trypsin (Met Ox)
200-219	APVVEVVPVEPTPIVEPQPQ	-		X (2 <sup>+</sup> ) (3 <sup>+</sup> )	Proteinase K
203-219	VEVVPVEPTPIVEPQPQ	-		X (2 <sup>+</sup> ) (3 <sup>+</sup> )	Elastase
204-223	EVVPVEPTPIVEPQPQELTE	-		X (2 <sup>+</sup> ) (3 <sup>+</sup> )	Trypsin & Endoproteinase AspN
205-219	VVPVEPTPIVEPQPQ	-		X (2 <sup>+</sup> )	Proteinase K
220-229	ELTEDLN MEL	-		X (2 <sup>+</sup> )	Elastase (Met Ox)
220-230	ELTEDLN MELR	-		X (2 <sup>+</sup> )	Proteinase K
231-237	VFFDTNK	X		-	Trypsin
231-241	VFFDTNK SNIK	X		-	Trypsin
231-245	VFFDTNK SNIKDQYK	X		-	Trypsin
238-250	SNIKDQYKPEIAK	X		X (2 <sup>+</sup> )	Trypsin
242-250	DQYKPEIAK	X	X	-	Trypsin
251-264	VAEKLVEYPNATAR	X		-	Trypsin
255-264	LVEYPNATAR	X		X (2 <sup>+</sup> )	Trypsin
255-275	LVEYPNATARIDGHTDNTGPR	X		-	Trypsin
265-275	IDGHTDNTGPR	X		X (2 <sup>+</sup> ) (3 <sup>+</sup> )	Trypsin

265-280	IDGHTDNTGPRALNER	X	X	-	Trypsin
276-285	ALNERLSLAR	X		-	Trypsin
286-303	ANSVKSSLVNEYNIIDPSR	X	X	-	Trypsin
291-303	SSLVNEYNIIDPSR	X		X (2 <sup>+</sup> ) (3 <sup>+</sup> )	Trypsin
291-321	SSLVNEYNIIDPSRLTAQGFAWDQPIADNSTK	X		-	Trypsin
292-302	SLVNEYNIIDPS	-		X (2 <sup>+</sup> )	Elastase
300-311	DPSRLTAQGFAWLTAQGFAWDQPIADNSTK	X		-	Endoproteinase AspN
304-321	LTAQGFAWDQPIADNSTK	X		X (2 <sup>+</sup> ) (3 <sup>+</sup> )	Trypsin
304-324	LTAQGFAWDQPIADNSTKEGR	X		X (3 <sup>+</sup> )	Trypsin
306-323	AQGFAWDQPIADNSTKEG	-		X (2 <sup>+</sup> ) (3 <sup>+</sup> )	Elastase
307-323	QGFAWDQPIADNSTKEG	-		X (2 <sup>+</sup> ) (3 <sup>+</sup> )	Elastase
309-323	FAWDQPIADNSTKEG	-		X (2 <sup>+</sup> ) (3 <sup>+</sup> )	Elastase
322-329	EGRAMNR	X		-	Trypsin
329-338	RVFATITGSR	X		-	Trypsin
330-338	VFATITGSR	X		X (2 <sup>+</sup> )	Trypsin
330-348	VFATITGSRTVVAQPGQAQ	X		-	Trypsin
336-348	GSRTVVAQPGQAQ	-		X (2 <sup>+</sup> )	Proteinase K
339-348	TVVAQPGQAQ	X		X (2 <sup>+</sup> )	Trypsin

**Table 1S** List of peptides of AlnA-like native protein from multiple enzymatic digestions. Met Ox: Oxydation on methionine; 5': enzymatic digestion for 5 minutes.