

Supplementary material:

Table 1: Summary of structural differences between b2a2 and b3a2 isoforms.

Secondary Structure Element	Position of structural element in b2a2	Position of structural element in b3a2
α_{25}	Pro780 - Glu801	Glu 782 - Lys 802
α'	absent	Pro 812 - Glu 827
α_{26}	Tyr 852 - Lys 866	Arg 854 - Lys 866
α_{27}	Glu 878 - Met 881	Val 877 - Gln 890
α_{29}	Arg 1010 - Leu 1017	Arg 1035 - Ser 1043
β_{12}	Lys 815 - Leu 818	absent
β_{13}	Phe 834 - Ser 838	Ala 833 - His 837
β_{15}	Val 887 - Gln 890	Thr 891 - His 893
β'	absent	Ile 983 - Thr 984
β_{17}	Lys 963 - Leu 967	Lys 988 - Gly 993
β_{30}	Ser 1261 - Leu 1263	Leu 1285 - Leu 1288
β''	absent	between Asn1671 and Arg1672
β_{34}	Ser 1735 - Pro 1738	Gly 1761 - Pro 1763
β_{35}	Lys 1755 - His 1756	absent

Schematic 1: Comparison of secondary structure elements of b2a2 and b3a2 protein isoforms obtained by the use of Psipred. The 25 amino acid insertion just before Ala 904 in the sequence of b3a2 is underlined in red (the panels are numbered 1-11 according to the order in which they appear).



