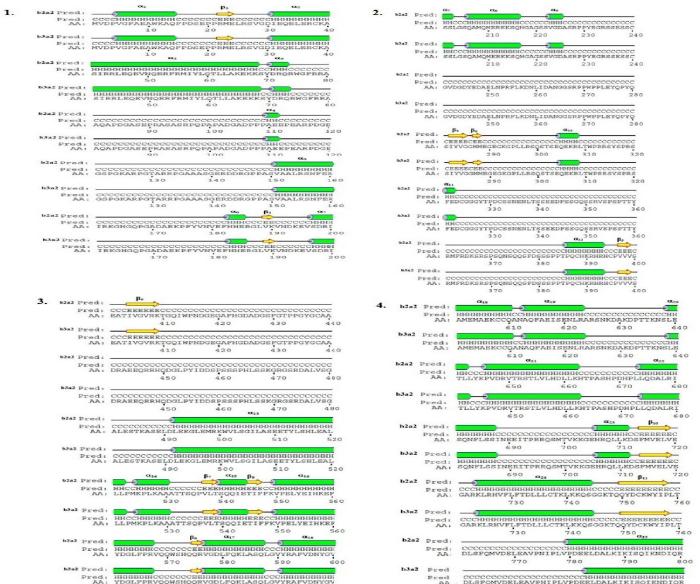
## **BIOINFORMATION**

## Supplementary material:

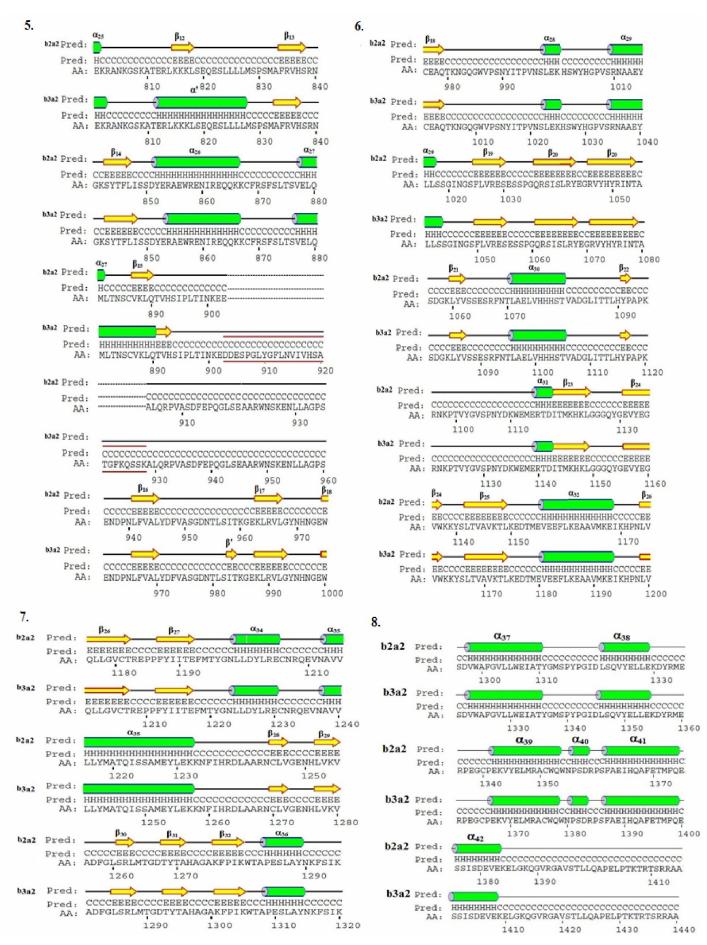
Table 1: Summary of structural differences between b2a2 and b3a2 isoforms.

Secondary Structure Element	Position of structural element in b2a2	Position of structural element in b3a2
α <sub>25</sub>	Pro780 - Glu801	Glu 782 - Lys 802
$\alpha'$	absent	Pro 812 - Glu 827
$\alpha_{26}$	Tyr 852 - Lys 866	Arg 854 – Lys 866
CL27	Glu 878 - Met 881	Val 877 - Gln 890
CL29	Arg 1010 - Leu 1017	Arg 1035 - Ser 1043
$\beta_{12}$	Lys 815 - Leu 818	absent
$\beta_{13}$	Phe 834 - Ser 838	Ala 833 - His 837
$eta_{15}$	Val 887 - Gln 890	Thr 891 - His 893
β΄	absent	Ile 983 - Thr 984
β17	Lys 963 - Leu 967	Lys 988 - Gly 993
$eta_{30}$	Ser 1261 - Leu 1263	Leu 1285 - Leu 1288
β"	absent	between Asn1671 and Arg1672
$eta_{34}$	Ser 1735 - Pro 1738	Gly 1761 - Pro 1763
β35	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).



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