

A**Wild-type human nAChR α 7**

CTGCACGTGTCCCTGCAAGGCGAGTTCAGAGGAAGCTTTACAAGGAGCTGGTCAAGAACTACAATCCCTTGGAGAGGCC
 GACGTGCACAGGGACGTTCCGCTCAAGGTC**TCCTTCGAAATGTTCTCGACCAGTTCCTTGATGTTAGGGAACCTCTCCGGG**
 L H V S L Q G E F Q R K L Y K E L V K N Y N P L E R P

GTGGCCAATGACTCGCAACCACTCACCGTCTACTTCTCCCTGAGCCTCCTGCAGATCATGGACGTGGATGAGAAGAACCAA
CACCGGTTACTGAGCGTTGGTGAAGAGGGACTCGGAGGACGCTTAGTACCTGCACCTACTCTTCTTGGTT
 V A N D S Q P L T V Y F S L S L L Q I M D V D E K N Q

B

AChBP QANL**MRLKSDLFNRS**PMYP**GP**TKDD--**PLTVTLGFTLQD**IVKVDSSTNEV
 nAChR α 7 VSLQGEF**QRKLYKELVKNYNPLERPVANDSQPLTVYFSL**LLQIMDVDEKNQVL
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C**AChR α 7-AChBP chimera (Black: nAChR α 7 sequence, Red: AChBP sequence)**

CCTGCAAGGCGAGTTCAG**ATGAGACTGAAGAGCGACCTGTTCAACAGAAGCCCCATGTAC****CCCGGCCCCACCAAGGAC**
 GGACGTTCCGCTCAAGGTC**TACTCTGACTTCTCGCTGGACAAGTTGTCTTCGGGGTACATGGGGCCGGGGTGGTTC**GTG

Reverse primer

L Q G E F Q M R L K S D L F N R S P M Y P G P T K D

Forward primer

GACCCCTGACCGTGACCTGGGCTTCACCCTGCAGGACATCATGGACGTGGATGAGAAGAAC
CTGGGGGACTGGCACTGGGACCCGAAGTGGGACGTCCTGTAGTACCTGCACCTACTCTTCTTG
 D P L T V T L G F T L Q D I M D V D E K N