

**A****Wild-type nAChR $\beta$ 2 :**

CCACGCCATCATTGCGCCCGTCAGCGCCTGCGCCTGCGGGCGACGCCAGCGTGAGCGCGAGGGCGCTGGAGCCCTC  
 P R H H C A R Q R L R L R R R Q R E R E G A G A L

**nAChR $\beta$ 2-8Rto8Q mutant:**

CCACGCCATCATTGCGCCC **AA**CAGC**AG**CTGC**AA**CTGC**AG****CAACAG**CAGC**AG**GAGC**AA**GAGGGCGCTGGAGCCCTC  
 P R H H C A **Q** **Q** **Q** L **Q** L **Q** **Q** **Q** **Q** **Q** **Q** E **Q** E G A G A L

**B****Primer pair to generate the nAChR $\beta$ 2 - 8Rto8Q mutant:**