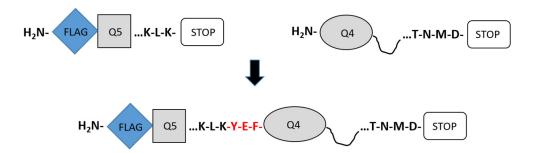


B) Q5-Q4 Dimer: Q4 replaces Q5 STOP codon, inserting Y-E-F



C) Q5-Q4-Q5-Q4: Two Q5-Q4 dimers are joined eliminating 1st Q4 C-terminus (Q-T-L-S-I-S-R-S-V-S-T-N-M-D-STOP) and 2nd FLAG

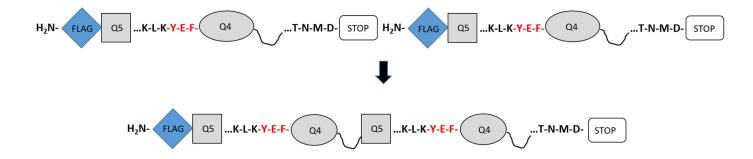


Figure S1. Construction of Concatenated Kv7 Subunits. Schematic representations of a) Q4-Q5; b) Q5-Q4; and c: Q5-Q4-Q5-Q4 constructs. Amino acids inserted as a result of the cloning strategy are shown in red.