



XbaI (724) Ascl (744) XhoI (786)

5' ACTCTAGAGGATCGAACCTTggcgcgccccaccatgtaccatac gatgttccagattacgctctc gaggccagagaag 800  
3' TGAGATCTCCTAGCTTGGGAAccgcgcggggtggtacatgggtatgctacaaggtcta atgcgagagctccggtctcttc

CMV...ter KOZ...TG intrace...erminus

M Y P Y D V P D Y A L E A R E  
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

A R E  
2 3 4

XcmI (869)

5' attccgtgaagtgtctgcgctgctgctctacgccctcaatctgctcttttggttaatgtccatcagtggttggcagtt 880  
3' taaggcacttcacagacgcgacggacgagatgcgaggatgacgagaaaaccaattacaggtagtcacacaaccgtcaa

intracellular N-terminus TM1

D S V K C L R C L L Y A L N L L F W L M S I S V L A V  
16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42

D S V K C L R C L L Y A L N L L F W L M S I S V L A V  
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

5' tctgcttggatgagggactacctaataatgttctcactttaactgcagaaacgagggtagaggaagcagtcattttgac 960  
3' agacgaacctactccctgatggatttattacaagagtgaattgacgtctttgctcccatctccttcgtagtaaaactg

TM1 extracellular loop 1

S A W M R D Y L N N V L T L T A E T R V E E A V I L T  
43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69

S A W M R D Y L N N V L T L T A E T R V E E A V I L T  
32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58

5' ttactttcctgtggttcatccggtcatgattgctgtttgctgtttccttatcattgtggggatgtaggatattgtggaa 1040  
3' aatgaaaggacaccaagtaggacgactaactgacgacaaaggaatagtaacaccctacaatcctataacacctt

extracellular loop 1 TM2

Y F P V V H P V M I A V C C F L I I V G M L G Y C G  
70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95

Y F P V V H P V M I A V C C F L I I V G M L G Y C G  
59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84















