

Product datasheet for **MR222957**

Tac4 (NM_053093) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Tac4 (NM_053093) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Tac4
Synonyms: AW489379; PPT-C
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR222957 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTGCCTCTCCTTGCCTGCTTCTCCTGATCGGGCCATCAGTGTGCACTACAGCAGGAGACAGAGAGG
AACTGGCTTTTGGTGCAGAGGCAGAGTCTGGGTGACCGTGAACCTGAAGGGAATCCCCGTCAGCAT
TGAACCTAAGCTTCAGGAGTTGAAGAGAAGCAGGACTCGCCAGTTCTATGGTCTGATGGGAAGCGGGT
GGAGGGTATCAGCTGGGACGTATAGTGCAGGATCTCCTTGGCACGAGAGGTTTGTCCATAGAAGGGACCT
GCAGACAGGCGGCGAGTCAACAGAGGGCACGCCGGAGCAGTGACCAGAGAAAGCCTCCAGAGTCGAGA
GGAAGATGAGGCTCCCCTAACCACGCAACGTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR222957 protein sequence
Red=Cloning site Green=Tags(s)
MLPLLALLLLIGPSVCTTAGDREELAFGAEASWVTVNLKGPVPSIELKLQELKRSRTRQFYGLMGKRV
GGYQLGRIVQDLLGTRGLSIEGTCRQAASQQRARPAVTRESLQSREDEAPLTTSNV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI



Cloning Scheme:



ACCN: NM_053093

ORF Size: 387 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- Reconstitution Method:
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_053093.2](#)

RefSeq Size: 1248 bp

RefSeq ORF: 387 bp

Locus ID: 93670

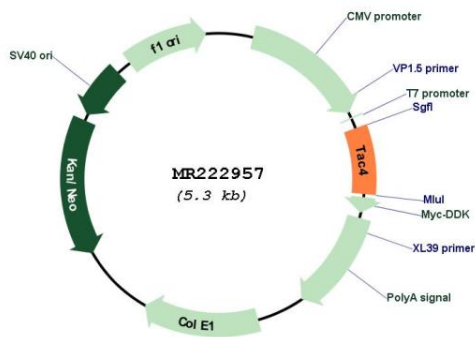
UniProt ID: [Q99N14](#)

Cytogenetics: 11 D

MW: 13.9 kDa

Gene Summary: Tachykinins are active peptides which excite neurons, evoke behavioral responses, are potent vasodilators and secretagogues, and contract (directly or indirectly) many smooth muscles. Hemokinin induces plasma extravasation, mast cell degranulation, muscle contraction, salivary secretion and scratching behavior. Increases sperm motility. Induces potent analgesic effects and may play a role in pain modulation. Promotes survival of bone marrow B lineage cells and of cultured LPS-stimulated pre-B cells and may act as an autocrine factor required for B-cell survival and proliferation. Lowers systemic arterial pressure following intravenous injection. Induces interferon-gamma production and may play a role in the inflammatory response. Shows potent affinity and specificity for the NK-1 receptor.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR222957