

Product datasheet for MR227923

Tac2 (NM_001199971) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tac2 (NM_001199971) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tac2
Synonyms:	PPT-B; Tac3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR227923 representing NM_001199971 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCCGCATCGCC ATGAGGAGCGCCATGCTGTTGCGGCTGTCTCGCCCTCAGCTTGGCTTGGACCTTCGGGGCTGTGTGTG AGGAGCCACAGGGGAGGGAGGGAGGCTCAGTAAGGACTCTGATCTCTATCAGCTGCCTCCGTCCCTGCT TCGGAGACTCTACGACAGCCGCCCTGTCTCTGGAAGGATTGCTGAAAGTGCTGAGCAAGGCTAGCGTG GGACCAAAGGAGACATCACTTCCACAGAAACGTGACATGCACGACTTCTTTGTGGGACTTATGGGCAAGA GGAACAGCCAACCAGACACTCCACCGACGTGGTTGAAGAGAACACCCCAAGCTTTGGCATCCTCAA ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA
Protein Sequence:	>MR227923 representing NM_001199971 Red=Cloning site Green=Tags(s) MRSAMLF AAVLALSLAWTFGAVCEEPQGQGGRLSKDSPLYQLPPSLLRRLYDSRPVSLEGLLKVLKASV GPKETSLPQKRDHDFVGLMGKRNSQPDTPDVEENTPSFGILK TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Restriction Sites:	SgfI-MluI


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Cloning Scheme:



ACCN: NM_001199971

ORF Size: 348 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001199971.1](#), [NP_001186900.1](#)

RefSeq Size: 870 bp

RefSeq ORF: 351 bp

Locus ID: 21334

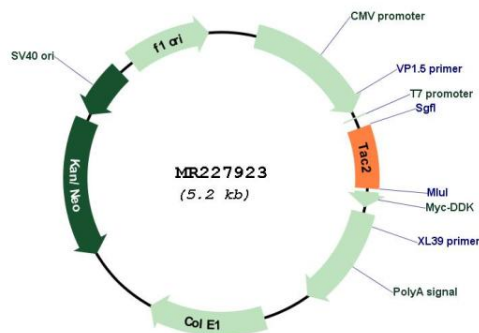
UniProt ID: [P55099](#)

Cytogenetics: 10 D3

MW: 13.2 kDa

Gene Summary: This gene encodes a member of the tachykinin family of signaling peptides that is widely expressed in the central nervous system and plays a role in diverse processes such as water homeostasis, pulmonary inflammation, cognition, fear memory consolidation and preeclampsia. The encoded protein is enzymatically processed to generate the mature neuropeptide. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2015]

Product images:



Circular map for MR227923