

Product datasheet for **MG200495**

Tac2 (NM_009312) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Tag: TurboGFP

Symbol: Tac2

Synonyms: PPT-B; Tac3

Mammalian Cell Selection: Neomycin

Vector: pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >MG200495 representing NM_009312
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGGAGCGCCATGCTGTTTTCGGGCTGTCTCGCCCTCAGCTTGGCTTGGACCTTCGGGGCTGTGTGTG
AGGAGCCACAGGGCAGGGAGGGAGGCTCAGTAAGGACTCTGATCTCTATCAGCTGCCTCCGTCCCTGCT
TCGGAGACTCTACGACAGCCGCCCTGTCTCTGGAAGGATTGCTGAAAGTGCTGAGCAAGGCTAGCGTG
GGACCAAAGGAGACATCACTTCCACAGAAACGTGACATGCACGACTTCTTTGTGGACTTATGGGCAAGA
GGAACAGCCAACCGACTCCACCGACGTGGTTGAAGAGAACACCCCCAGCTTTGGCATCCTCAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTAA

Protein Sequence: >MG200495 representing NM_009312
Red=Cloning site Green=Tags(s)

MRSAMLFAAVLALSLAWTFGAVCEEPOQGQGRLLSKDSDLYQLPPSLLRRLYDSRPVSLEGLLKVLSKASV
GPKETSLPQKRDHDFVGLMGKRNSQPDTPDVEENTPSFGILK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



Cloning Scheme:



ACCN: NM_009312

ORF Size: 348 bp

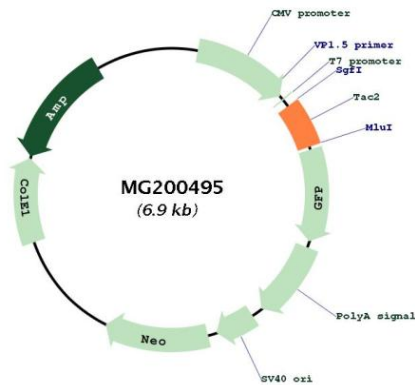
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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_009312.2 , NP_033338.2
RefSeq Size:	851 bp
RefSeq ORF:	351 bp
Locus ID:	21334
UniProt ID:	P55099
Cytogenetics:	10 D3
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 MG200495