

Product datasheet for **RG217786**

TAC1 (NM_013997) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: TAC1 (NM_013997) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: TAC1
Synonyms: Hs.2563; NK2; NKNA; NPK; TAC2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG217786 representing NM_013997
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAATCCTCGTGGCCTTGGCAGTCTTTTTCTTGTCTCCACTCAGCTGTTTGCAGAAGAAATAGGAG
CCAATGATGATCTGAATTACTGGTCCGACTGGTACGACAGCGACCAGATCAAGGAGGAAGTCCGGAGCC
CTTTGAGCATCTTCTGCAGAGAATCGCCCGGAGACCCAAGCCTCAGCAGTTCTTTGGATTAATGGGCAA
CGGGATGCTGGACATGGCCAGATCTCTCACAAAAGACATAAAACAGATTCCTTTGTTGGACTAATGGCA
AAAGAGCTTAAATTCTGTGGCTTATGAAAGGAGTGCAATGCAGAATTATGAAAGAAGACGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG217786 representing NM_013997
Red=Cloning site Green=Tags(s)

MKILVALAVFFLVSTQLFAEEIGANDDLNYWSDWYDSQIKEELPEPFEHLLQRIARRPKPQQFFGLMGK
RDAGHGQISHKRHKTDSEFVGLMGKRALNSVAYERSAMQNYERRR

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

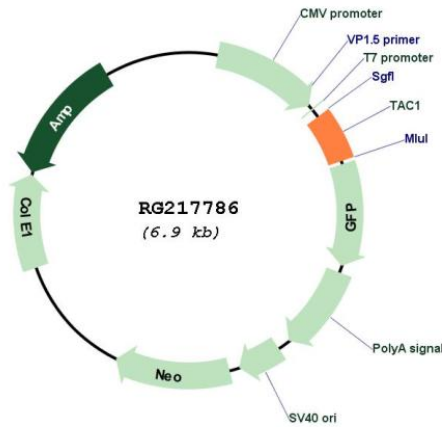


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Cloning Scheme:



Plasmid Map:



ACCN: NM_013997

ORF Size: 342 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:	<ol style="list-style-type: none">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_013997.3
RefSeq Size:	1143 bp
RefSeq ORF:	345 bp
Locus ID:	6863
UniProt ID:	P20366
Cytogenetics:	7q21.3
Protein Families:	Druggable Genome, Secreted Protein
Gene Summary:	This gene encodes four products of the tachykinin peptide hormone family, substance P and neurokinin A, as well as the related peptides, neuropeptide K and neuropeptide gamma. These hormones are thought to function as neurotransmitters which interact with nerve receptors and smooth muscle cells. They are known to induce behavioral responses and function as vasodilators and secretagogues. Substance P is an antimicrobial peptide with antibacterial and antifungal properties. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2014]