

Product datasheet for **SC309570**

TAC1 (NM_013997) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TAC1 (NM_013997) Human Untagged Clone
Tag:	Tag Free
Symbol:	TAC1
Synonyms:	Hs.2563; NK2; NKNA; NPK; TAC2
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for NM_013997, the custom clone sequence may differ by one or more nucleotides ATGAAAATCCTCGTGGCCTTGGCAGTCTTTTTTCTGTCTCCACTCAGCTGTTTGCAGAA GAAATAGGAGCCAATGATGATCTGAATTACTGGTCCGACTGGTACGACAGCGACCAGATC AAGGAGGAACGCCGGAGCCCTTTGAGCATCTTCTGCAGAGAATCGCCCGGAGACCCAAG CCTCAGCAGTTCTTTGGATTAATGGGCAAACGGGATGCTGGACATGGCCAGATCTCTCAC AAAAGACATAAAACAGATTCCTTTGTTGGACTAATGGGCAAAGAGCTTTAAATTCTGTG GCTTATGAAAGGAGTGCAATGCAGAATTATGAAAGAAGACGTAA
Restriction Sites:	Please inquire
ACCN:	NM_013997
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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).



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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_013997.1](#), [NP_054703.1](#)

RefSeq Size: 1057 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]
Transcript Variant: As compared to the full-length transcript variant beta, variant gamma lacks exon 4, and therefore does not encode neuropeptide K. This transcript does encode substance P, neurokinin A, and is the only variant that encodes neuropeptide gamma.