

Product datasheet for **SC304029**

TAC1 (NM_013998) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TAC1 (NM_013998) Human Untagged Clone
Tag:	Tag Free
Symbol:	TAC1
Synonyms:	Hs.2563; NK2; NKNA; NPK; TAC2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_013998 edited
CACGCAAGCGAAAGGAGAGGAGGCGGCTAATTAATATTGAGCAGAAAGTCGCGTGGGGA
GAATGTCACGTGGTCTGGAGGCTCAAGGAGGCTGGGATAAATACCGCAAGGCACCTGAGC
AGGCGAAAGAGCGCGCTCGGACCTCCTTCCCGGCGGCAGCTACCGAGAGTGCGGAGCGAC
CAGCGTGCCTCGGAGGAACAGAGAACTCAGCACCCCGCGGGACTGTCCGTGCGAAAA
TCCAACATGAAAACTCGTGGCCTTGGCAGTCTTTTTCTTGTCTCCACTCAGTGTTT
GCAGAAGAAATAGGAGCCAATGATGATCTGAATTACTGGTCCGACTGGTACGACAGCGAC
CAGATCAAGGAGGAACTGCCGGAGCCCTTGGAGCATCTTCTGCAGAGAATCGCCCGGAGA
CCCAAGCCTCAGCAGTCTTTGGATTAATGGGCAAACGGGATGCTGGACATGGCCAGATC
TCTCACAAAATGGCTTATGAAAGGAGTGAATGCAGAATTATGAAAGAAGACGTTAATAA
ACTACCTAACATTATTTATTCAGCTTCATTTGTGTCAATGGGCAATGACAGGTAATTA
GACATGCACTATGAGGAATAATTTATTTAATAACAATTGTTGGGGTTGAAAATTCA
AAAAGTGTATTTTTATATTGTGCCAATATGTATTGTAACATGTGTTTTAATTCCAA
TATGATGACTCCCTTAAAATAGAAATAAGTGGTATTTCTCAACAAAGCACAGTGTTAAA
TGAAATTGTAACCTGTCAATGATACAGTCCCTAAAGAAAAAATCATTGCTTTGAAG
CAGTTGTGTCAGCTACTGCGAAAAGGAAGGAACTCCTGACAGTCTTGTGCTTTTCTTA
TTTGTTCATGGTGAAAATGACTGAGATTTTGGTATTACACTGATTTGTATCTCTGA
AGCATGTTTCATGTTTTGTGACTATATAGAGATGTTTTAAAAAGTTTCAATGTGATTCTA
ATGTCTTCATTTTATTGATGTGTTGTGATAGCTAACATTTTAAATAAAAGAAAAAA
TATCTTGAAAAA



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_013998 unedited NTTTTGGGGGGTTCATCATTTGTNATACGACTCATNATAGGGCGGCCGGAATTCGCAC GAGGCACGCAAGCGAAAGGNAGAGAGGGCGCTAATTAATATTGAGCAGAAAAGTCGCGTG GGGAGAATGTCACGTGGGTCTGGAGGCTCAAGGAGGCTGGGATAAATACCGCAAGGCACT GAGCAGGCGAAAGAGCGCGCTCGGACCTCCTCCCGCGGCAGCTACCGAGAGTGCGGAG CGACCAGCGTGCCTCGGAGGAACCAGAGAACTCAGCACCCCGCGGGACTGTCCGTCGC AAAATCCAACATGAAAATCCTCGTGGCCTTGGCAGTCTTTTTTTTGTCTCCACTCAGCT GTTTGCAGAAGAAATAGGAGCCAATGATGATCTGAATTACTGGTCCGACTGGTACGACAG CCGNACCCAGNATCAAGGAGGAAGTCCCGGAGCCCTTTGNAGNCNNATCTTCTCGCAGAA GAATCGCCCGNAGNACCCCAAGCCTCAGCAGTTCTTTGGATTAATGGGCAAACGGGATG CTGGACATGGCCAGATCTCTCACAAAATGGCTTATGAAAGGAGTGCAATGCAGAATTATG AAAGAAGACGTTAATAAACTACCTAACATTATTTATTCAGCTTCATTTGTGTCAATGGGC AATGACAGGTAATTAAGACATGCACTATGAGGAATAATTATTTATTAATAACAATTGT TTGGGGTTGAAAATTCAGAAAGTGTATTTTTTCATATTGTGCCAATATGTATTGTAAC ATGTGTTTAATTCCAATATGATGACTCCCTTACAATAGAAGTAGTGTTATTTCTCAAC AAACACAGTGTTAAATGAAATTGAAAACCTGTCAATGAT
Restriction Sites:	Please inquire
ACCN:	NM_013998
Insert Size:	1100 bp
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:	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
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:	<u>NM_013998.1</u> , <u>NP_054704.1</u>
RefSeq Size:	1003 bp
RefSeq ORF:	291 bp
Locus ID:	6863
UniProt ID:	<u>P20366</u>
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 delta lacks both exons 4 and 6; therefore, it does not encode neurokinin A, neuropeptide K, or neuropeptide gamma. It does encode the hormone substance P located on exon 3.