

Product datasheet for **SC109810**

TAC1 (NM_003182) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: TAC1 (NM_003182) Human Untagged Clone
Tag: Tag Free
Symbol: TAC1
Synonyms: Hs.2563; NK2; NKNA; NPK; TAC2
Mammalian Cell Selection: None
Vector: [pCMV6-XL5](#)
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_003182 edited
ATGAAATCCTCGTGGCCTTGGCAGTCTTTTTTCTGTCTCCACTCAGCTGTTTGCAGAA
GAAATAGGAGCCAATGATGATCTGAATTACTGGTCCGACTGGTACGACAGCGACCAGATC
AAGGAGGAACCTGCCGAGCCCTTTGAGCATCTTCTGCAGAGAATCGCCCGGAGACCCAAG
CCTCAGCAGTTCTTTGGATTAATGGGCAAACGGGATGCTGATTCTCAATTGAAAAACAA
GTGGCCCTGTAAAGGCTCTTTATGGACATGGCCAGATCTCTCACAAAAGACATAAAACA
GATTCCTTTGTTGGACTAATGGGCAAAGAGCTTAAATTCTGTGGCTTATGAAAGGAGT
GCAATGCAGAATTATGAAAGAAGACGTAA

5' Read Nucleotide Sequence: >OriGene 5' read for NM_003182 unedited
TTGTAATACGACTCACTTATAGGGCGGCCGCAATTCGCACGAGGGCGAAAGAGCGCGC
TCGGACCTCCTTCCCGGGCGCAGCTACCGAGAGTGCGGAGCGACCAGCGTGCCTCGGAG
GAACCAGAGAACTCAGCACCCCGGGACTGTCCGTCGCAAAATCCAACATGAAATCC
TCGTGGCCTTGGCAGTCTTTTTTCTGTCTCCACTCAGCTGTTTGCAGAAGAAATAGGAG
CCAATGATGATCTGAATTACTGGTCCGACTGGTACGACAGCGACCAGATCAAGGAGGAAC
TGCCGGAGCCCTTTGAGCATCTTCTGCAGAGAATCGCCCGGAGACCCAAGCCTCAGCAGT
TCTTTGGATTAATGGGCAAACGGGATGCTGATTCTCAATTGAAAAACAAGTGGCCCTGT
TAAAGGCTCTTTATGGACATGGCCAGATCTCTCACAAAAGACATAAAACAGATTCCTTTG
TTGGACTAATGGGCAAAGAGCTTAAATTCTGTGGCTTATGAAAGGAGTGCAATGCAGA
ATTATGAAAGAAGACGTTAATAAACTACCTAACATTATTTATTTCAGCTTCATTTGTGTCA
ATGGGCAATGACAGGTAAATTAAGACATGCACTATGAGGAATAATTATTTATTTAATAAC
AATTGTTTGGGGTTGAAATTCAAAAGTGTATTTTTTCATATTGTGCCAATATGTATT
GTAAACATGTGTTTTAATTCATATGATGACTCCCTTANATAGAAATAGTGGGATTTCT
CACCAAGCACAGTGGTAAATGAAATGTAAAAGTGCATGATACAGTCCCTAAAGAAAAA
ATCATTGCTTTGAGCAGTGTGTGAGCTCTGCGGAAAAGAAGA



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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_003182 unedited GAACGCGGGCCGCAATCTAGAGTCGAGACTTTTTTTTTTTTTTTTCAAATATTTTTTCT TTTATTTAAAAATGACTAGCTATCACAACACATCATACAATGAAATGAAGACATTAGAATC ACATTGAAACTTTTAAAAACATCTCTATATAGTCACAAAACATGAAACATGCTTCAGAGA TACAAAACAGGGTAATACAAAATCTCAGTACATTTCCACCATGAAAACAAATAGGAAA AGCACAAAGACTGTCAGGAGTTTCCTTCCCTTTCCGCAGTAGCTGACACAACCTGCTTCAA GCAATGATTTTTTTTCTTTAGGGACTGTATCATTGACAGGTTTTACAATTCATTTAACA CTGTGCTTTGTTGAGAAATAACCACTTATTTCTATTTTAAGGGAGTCATCATATTGGAAT TAAAACACATGTTTACAATACATATTGGCACAATATGAAAAATAAACACTTTTTGAATTT TAAACCCCAAACAATTGTTATTAATAATAAATTATTCCTCATAGTGCATGTCTTAATTC ACCTGTCATTGCCATTGACACAAATGAAGCTGAATAAATAATGTCAGGCAGTTAATTA CGTTTTCTTTCATAATTCTGCATTGCACTCCTTTCATAAGCCACAGAATTTAAGCCTCTT TGCCCATTAATCCACCAAAGAATCTGTTTTAAGCCTTTCGTGAGAGATCTGGCCATGTCC ATAAGAGCCTTTTACAGGGCCCACTTGGTTTTTCAATTGAAGAATACAGATTCCGTTTG CCCATTAATCCAAAGAAGTCTGAGCTTTGGGCCCCCGCGAATTTTTGCAAAAAGCC CAAAGGGCTCCGGAGGTGTCTTGTCTGTCCGTGGGGACCAAGCCGCCACGGAAATTT AAACACTATTGGCTCCTAATTTTTTGGAAACACCGAGGGGAAAAANAACAAAACGCGCAA GCCCAGGTTTCTGTGGATTTTCGAGGAAACCCGGGGGGTCTGGTTTTT
Restriction Sites:	NotI-NotI
ACCN:	NM_003182
Insert Size:	1170 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).
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_003182.1 , NP_003173.1
RefSeq Size:	1102 bp
RefSeq ORF:	390 bp
Locus ID:	6863
UniProt ID:	P20366
Cytogenetics:	7q21.3
Domains:	Tachykinin, TK

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: Transcript variant beta encodes the full-length form of this gene. It encodes hormones substance P, neurokinin A, as well as the neuropeptide K.