

## Product datasheet for **SC115205**

### TAC1 (NM\_013996) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TAC1 (NM_013996) 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 ORF within SC115205 sequence for NM_013996 edited (data generated by NextGen Sequencing) ATGAAAATCCTCGTGGCCTTGGCAGTCTTTTTTCTGTCTCCACTCAGCTGTTTGCAGAA GAAATAGGAGCCAATGATGATCTGAATTACTGGTCCGACTGGTACGACAGCGACCAGATC AAGGAGGAACTGCCGGAGCCCTTTGAGCATCTTCTGCAGAGAATCGCCCGGAGACCCAAG CCTCAGCAGTTCTTTGGATTAATGGCAAACGGGATGCTGATTCCTCAATTGAAAAACAA GTGGCCCTGTAAAGGCTCTTTATGGACATGGCCAGATCTCTCACAAAATGGCTTATGAA AGGAGTGCAATGCAGAATTATGAAAGAAGACGTAA

Clone variation with respect to NM\_013996.2



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_013996 unedited  
 TGT CANATTTGTATACGACTCATATAGGCGGCNCGCAATCGGCACGAGGCACGCAAGCG  
 AAAGGAGAGGAGGCGGCTAATTAATATTGAGCAGAAAGTCGCGTGGGGAGAATGTCACG  
 TGGGTCTGGAGGCTCAAGGAGGCTGGGATAAATACCGCAAGGCACTGAGCAGGCGAAAGA  
 GCGCGCTCGGACCTCCTCCCGCGGCAGCTACCGAGAGTGGGAGCGACCAGCGTGC  
 TCGGAGGAACAGAGAACTCAGCACCCCGGGACTGTCCGTCGCAAAATCCAACATGA  
 AAATCCTCGTGGCCTTGGCAGCTTTTTTCTTGTCTCCACTCAGCTGTTTGCAGAAGAAA  
 TAGGAGCCAATGATGATCTGAATTAAGTGGTCCGACTGGTACGACAGCGACCAGATCAAGG  
 AGGAACTGCCGGAGCCCTTTGAGCATCTTCTGCAGAGAATCGCCCGGAGACCCAAGCCTC  
 AGCAGTCTTTGGATTAATGGGCAAACGGGATGCTGATTCCTCAATTGAAAAACAAGTGG  
 CCCTGTTAAAGGCTCTTTATGGACATGGCCAGATCTCTCACAAAAGACATAAAACAGATT  
 CCTTTGTTGGACTAATGGGCAAAGAGCTTTAAATCTGTGGCTTATGAAAGGAGTGCAA  
 TGCAGAATTATGAAAGAAGACGTTAATAAACTACCTAACATTATTTATTCAGCTTCATTT  
 GTGTATATGGGCAATGACAGGTAATTAAGACATGCACTATGAGGAATAATTATTTATTT  
 AATAACAATTGTTGGGGTTGAAAATCCATAAGTGTTTATTTTTCATATTGTGCCAATA  
 TGTATTGTAACATGTGTTTAAATCCCATATGATGACTCCCTTAACTAGNNAATAGTG  
 NTATTCCTCACAAG

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_013996 unedited  
 ATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTCAAATATTTTTCTTTTATTT  
 AAAATGTTAGCTATCACAACACATCATAAATGAAATGAAGACTTTAGAATCACATTGAA  
 ACTTTTAAAAACATCTTTATATAGTCACAAAACATGAAACATGCTTCAAAGATACAAATA  
 CAGGGTAATACAAAATCTCAGTACATTTTACCATGAAAACAAATAGGAAAAGCACAAG  
 ACTGTCAGGAGTTTCCTTCTTTCCGAGTAGCTGACACAACCTGCTTCAAAGCAATGAT  
 TTTTTTCTTTAGGGACTGTATCATTGACAGGTTTTACAATTTCAATTAACACTGTGCTT  
 TGTTGAAAAATAACCACTATTTCTATTTTAAAGGAGTCATCATATTGGAATTAACAC  
 ATGTTTACAATACATATTGGCACAATATGAAAAATAAACACTTTTTGAATTTCAACCC  
 AAACAATGGTTATTAATAAATAATTATTCCTCATAGTGCATGTCTTAATTTACCTGTCA  
 TTGCCATTGACACAAATGAAGCTGAATAAATAATGTTAGGTAGTTAATTAACGTCTTCT  
 TTATAATTCTGCATTGCACTCTTTTATAAGCCACAGAAATTAAGCTCTTTTGGCCATT  
 AGTCCAACAAAGGAATCTGTTTTATGTCTTTTGTGAGAGATCTGGGCATGTCCATAAAGA  
 GCCTTTACAGGGCCACTTGTTTTCAATGGAGGATCAGCATCCCGTTGGCCATAATCCA  
 ANGACTGCTGAGGCTGGGTCTCCCGGCTTTCTTTGCAAATAGCTCAAAGGCTCCGGA  
 GTTTCTCCTTGATCTGGCGCTGCNGCCAGCCGAACANAATCACGACATCATGGCTCT  
 TATTTTTGCAACAGTGAGGAAACAAAAAACTGCAAGGCCACAGATTTCTGTTGGAT  
 TTGCACAGAAGCCCGGGTGCTGTTTTTGTCTTCAAGCGACCGTCCGCTCCGCTCCG  
 AG

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_013996

**Insert Size:**

1260 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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_013996.1</a> , <a href="#">NP_054702.1</a>
<b>RefSeq Size:</b>	1048 bp
<b>RefSeq ORF:</b>	336 bp
<b>Locus ID:</b>	6863
<b>UniProt ID:</b>	<a href="#">P20366</a>
<b>Cytogenetics:</b>	7q21.3
<b>Domains:</b>	Tachykinin
<b>Protein Families:</b>	Druggable Genome, Secreted Protein
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: As compared to the full-length transcript variant beta, variant alpha lacks exon 6, and therefore does not encode neuropeptide K, neurokinin A, or neuropeptide gamma. This transcript does encode the hormone substance P located on exon 3.</p>