

## Product datasheet for SC119454

### Neurokinin A Receptor (TACR2) (NM\_001057) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Neurokinin A Receptor (TACR2) (NM_001057) Human Untagged Clone
Tag:	Tag Free
Symbol:	Neurokinin A Receptor
Synonyms:	NK2R; NKNAR; SKR; TAC2R
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>SC119454 representing NM_001057. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGGGGACCTGTGACATTGTGACTGAAGCCAATATCTCATCTGGCCCTGAGAGCAACACCACGGGCATC
ACAGCCTTCTCCATGCCAGCTGGCAACTGGCACTGTGGGCCACAGCCTACCTGGCCCTGGTGTGGTG
GCCGTGACGGTAATGCCATCGTCATCTGGATCATCTGGCCCATCGGAGGATGCGCACAGTCACCAAC
TACTTCATCGTCAATCTGGCGCTGGCTGACCTCTGCATGGCTGCCTTCAATGCCGCCTTCAACTTTGTC
TATGCCAGCCACAACATCTGGTACTTTGGCCGTGCCTTCTGCTACTTCCAGAACCCTTCCCCATCACA
GCCATGTTTGTGAGCATCTACTCCATGACCGCCATTGCTGCCGACAGGTACATGGCCATCGTCCACCCC
TTCCAGCCTCGGCTTTCAGCTCCCAGCACCAAGGCGGTTATTGCTGGCATCTGGTGGTGGCTCTCGCC
CTGGCCTCCCCTCAGTGCTTCTACTCCACCGTCACCATGGACCAGGGTCCACCAAGTGCCTGGTGGCC
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CTGGTGGTGTGACGTTTGCCATCTGCTGGCTGCCCTACCACCTACTTTCATCTGGGCAGCTTCCAG
GAGGACATCTACTGCCACAAGTTCATCCAGCAAGTCTACTGGCACTCTTCTGGTTGGCCATGAGCTCT
ACCATGTACAATCCCATCATCTACTGCTGTCTCAACCACAGGTTTCGCTCTGGATTCCGGCTTGCCTTC
CGCTGCTGCCATGGGTACACCCACCAAGGAAGATAAGCTCGAGCTGACTCCCACGACCTCCCTCTCC
ACGAGAGTCAACAGGTGTCACTAAGGAGACTTTGTTTCATGGCTGGGGACACAGCCCCCTCCGAGGCT
ACCAGTGGGGAGGCGGGCGTCCCAGGATGGATCAGGGCTATGGTTTGGGTATGGTTTGCTTGCSCCC
ACCAAACTCATGTTGAAATTGA
  
```



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_001057 unedited  
 NCGTGTCAAATATGTATACGACTACTATAGGGCGGCCCGGAATTCGCACGAGCCA  
 GACTTCTCGAAATCATGTGGAAGGATGGAATCTGAAATGACAATGGTTCTGGACTGGGCT  
 TTGTGCTCAGCCCAGCTCATCTTTGCCTGAGACCTAGGAGTGGCCCCAGGCTCTCCTGAT  
 GTGCCACCACGCTTGGCATCTGCTCCTCCTCCCTGCCCCATATCCCATGCTCTGAAGGG  
 GAGTTCTTTTCATAGCAAATCCGAGAGGAGCCGAGGAGCCAGGTCTTTGTTCCAGACC  
 CAGAAGCAGCCATGGGGACCTGTGACATTGTGACTGAAGCCAATATCTCATCTGGCCCTG  
 AGAGCAAACACCACGGGCATCACAGCCTTCTCCATGCCAGCTGGCAACTGGCACTGTGGG  
 CCACAGCCTACCTGGCCCTGGTGTGGTGGCCGTGACGGGTAATGCCATCGTCATCTGGA  
 TCATCCTGGCCCATCGGAGGATGCGCACAGTCACCAACTACTTCATCGTCAATCTGGCGC  
 TGGCTGACCTCTGCATGGCTGCCTTCAATGCCGCCTTCAACTTTGTCTATGCCAGCCACA  
 ACATCTGGTACTTTGGCCGTGCCTTCTGCTACTTCCAGAACCCTTCCCCATCACAGCCA  
 TGTTTGTGAGCATCTACTCCATGACCGCCATTGCTGCCGACAGGTACATGGCCATCGTCC  
 ACCCCTCCAGCCTCGGCTTTCAGCTCCAGCACCAAGGCGGTTATTGCTGGCATCTGGC  
 TGGTGGCTCTCGCCCTGGCTCCCTCAGTGCTTCTACTCCACCGTCACCATGGACCAGG  
 GTGCCACCAAGTGCGTGGTGGCTGGCCCCGAAGACAGCGGGCAAGACGCTNCTCCT  
 GTCCACCTCGTGGTGATCGCCCT

**3' Read Nucleotide Sequence:**

>OriGene 3' genomic read for NM\_001057 unedited  
 ATTTATTCTGGCTCATGATTCTGGTGGTGATATCCAGNATTGGGCAGCTGCATCTGGT  
 GAAGGCCCTCAGGCTGCTTCTGNATGGTGGAAAGTGAAGGGAAGTGTGTGCAAAGA  
 GATCACATGGTGAGAGAGGAAGCAAGACAGGGAAACTGAGGACACCACACTCTTTCTAAC  
 AACTTGTTATTTTGGGAAGTAGTCCATCCACAAGAGTGATGATTCACCTCAACTGGAA  
 GGCATTAATCTATTCATAAGGGATCCATCCCCAATACCTAAACACCTCCCACTAACCCCT  
 ACCTTCCAACACTGTTTTTCTGCCATCTCCCTTCTCTTTTCTCCTCCCTCCGGGGGCT  
 CCTCTCTCTCCTCCACCCCTTCTTCCCTTTTCCCTCCTCCCTCCCTCCCTCCCTCCCT  
 CTCTTTCTCCTCTCAGTCCCTTCCCATTTCTCTTCTTTTCTCCCCCTATCTTCCC  
 CTCTATCCCCCTCCCTCGCTTTTTTCCCCCTTCTTCCCTTCTCCTCCCTCCCTCTTCT  
 CCCCCTCGCTCTACTCCTCCTCCCCATTTCTCTCTATTTCTTTTCCCCCTTCTTCC  
 CTTCTCCTCCCCCTTCCCTCCCTTATTGCTTCTCCTCCCTCTCTGCCCCTTTTCTTCC  
 CCCCCTCTTTCTTTTCTGTTTTCTCGTATATCCCTCCCTCCTCCTCTCTCTCTCCC  
 CTGTTATCACCTTCCCCCGCCCTTCTTGCTTCCATTCTCAGCCTCCTCCCTCCGCA  
 CTTCCCCATCTTCTCCTCTCCTTGATTTTCTTCTACCTATTGTTACCTTCCCCACC  
 CCTTACCCTGTTGACCGTGGTCTTCTTCCCTGTCCACCCGTTTTTATACTAAGC  
 AACCTCCTCCCTACTCTTCTCTCTCTTCTGCTTTTTTCTCCCCCTTTTTTCTCTT  
 CTTTTTACCTATAACCGTCTCGCTCTCACTATTCTATCTTTTCTTCCCCGACGTTTA  
 TTTCCCTCTTCTTTTCTATCCACCC

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_001057

**Insert Size:**

1197 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:**

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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [NM\\_001057.1](#)

**RefSeq Size:** 1197 bp

**RefSeq ORF:** 1197 bp

**Locus ID:** 6865

**UniProt ID:** [P21452](#)

**Cytogenetics:** 10q22.1

**Domains:** 7tm\_1

**Protein Families:** Druggable Genome, GPCR, Transmembrane

**Protein Pathways:** Calcium signaling pathway, Neuroactive ligand-receptor interaction

**MW:** 44.5 kDa

**Gene Summary:** This gene belongs to a family of genes that function as receptors for tachykinins. Receptor affinities are specified by variations in the 5'-end of the sequence. The receptors belonging to this family are characterized by interactions with G proteins and 7 hydrophobic transmembrane regions. This gene encodes the receptor for the tachykinin neuropeptide substance K, also referred to as neurokinin A. [provided by RefSeq, Jul 2008]