

## Product datasheet for **SC109799**

### Staufen (STAU1) (NM\_017454) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Staufen (STAU1) (NM_017454) Human Untagged Clone
Tag:	Tag Free
Symbol:	Staufen
Synonyms:	PPP1R150; STAU
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_017454, the custom clone sequence may differ by one or more nucleotides

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ATGAAACTTGGAAAAAACAATGTATAAGCCTGTTGACCCTTACTCTCGGATGCAGTCCACCTATAACT
ACAACATGAGAGGAGGTGCTTATCCCCGAGGACTTTTACCCATTTCCAGTTCACCTTTACTTTATCA
AGTGGAACCTTTCTGTGGGAGGACAGCAATTTAATGGCAAAGGAAAGACAAGACAGGCTGCGAAACACGAT
GCTGCTGCCAAAGCGTTGAGGATCTGCAGAATGAGCCCCTGCCAGAGAGGCTGGAGGTGAATGGAAGAG
AATCCGAAGAAGAAAATCTCAATAAATCTGAAATAAGTCAAGTGTGGAGATTGCACTTAAACGGAACCT
GCCTGTGAATTTGAGGTGGCCCGGAGAGTGGCCACCCACATGAAGAATTTGTGACCAAGGTTTCG
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AACAAAACCCATAGTCAAGCCACAGACAAGCCCAGAATATGGCCAGGGGATCAATCCGATTAGCCGACTG
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TTTTTGAACCTGGCTCTGGGGATGAAAAATGGGACTAGTAATAAAGAGGATGAGTTCAGGATGCCTTATCT
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AGGCCACGTACCCATGGACCTCTCACGAGACCCTCTGAGCAACTGGACTATCTTCCAGAGTCCAGGGA
TTCCAGGTTGAATACAAAGACTTCCCCAAAAACAAGAACGAATTTGTATCTCTTATCAATTGCTCCT
CTCAGCCACCTCTGATCAGCCATGGTATCGGCAAGGATGTGGAGTCTGCCATGATATGGCTGCGCTGAA
CATCTTAAAGTTGCTGTCTGAGTTGGACCAACAAAGTACAGAGATGCCAAGAACAGGAAACGGACCAATG
TCTGTGTGGGAGGTGCTGA

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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_017454 unedited            NNNNTGTCGGAATTTGTATACGACTCATATAGGGCGGCCGGAATCGGCACCAGAAACAA            CATTGTTCTGGAACGCCCTCTTTTTAAAAAAGAAAGCATAACCCCTACTGTAGAATAA            ATGCACTGTGCATGAACTTGAAAAAACAATGTATAAGCCTGTTGACCCCTACTCTC            GGATGCAGTCCACCTATAACTACAACATGAGAGGAGGTGCTTATCCCCGAGGTACTTTT            ACCCAATTCAGTCCACCTTTACTTTATCAAGTGAACCTTTCTGTGGGAGGACAGCAAT            TTAATGGCAAAGGAAAGACAAGACAGGCTGCGAAACACGATGCTGCTGCCAAAGCGTTGA            GGATCCTGCAGAATGAGCCCTGCCAGAGAGGCTGGAGGTGAATGGAAGAGAATCCGAAG            AAGAAAATCTCAATAAATCTGAAATAAGTCAAGTGTGAGATTGCACTTAAACGGAAC            TGCCTGTGAATTCGAGGTGGCCCGGAGAGTGGCCACCCACATGAAGAACTTTGTGA            CCAAGTTTCGGTTGGGGAGTTTGGGGAGGTGGAAGGGGAAAAAGCAGAAGATTTCA            NAGAAAAATGCCGATTAGCTGTTCTTGAGGAGCTGAAGAAGNTACCGCCCTGCCTGCA            GNTGAACGAGTAAAGCCTAGAATCAAAAAGAAACANAACCATAGTCAAGCCACAGACAAG            CCCAGAATATGGCCAGGGGATCAATCCGAATAGCCGACTGGCCAGATCCAGCAGGCAA            AAAGGAAGAAGAGCCAGAGTCACGCTTCTCCAGAGCGAGCTCCGGCGAAGGAAATTTTG            AAGCAGGAAAAAGTTTGAACCACCTGGCAAAGGACGGGCACACAGAAAGGTGGCAACGC            ATGCACCGAACT</p>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_017454 unedited            NTTACTCTGNACCGCNCGCCAATCTAGNGATCGAGTTTTTTTTTTTTTTTTTTTTTTTAC            ATTAGAAGCTGTTTATTGATCAATGGTTTGATATAAAGTTATTTCAAATCTTCAAACCTT            TGCCAGATGGAATCACAAGCATTACAAAGTTTTTTCTTAAAAATAAAAAAGGATAGGG            GCAAGTTGGGAGGGGACCAACCTAGCAGTAGTGGCATTGAGAATAAATTAACAAAAAA            TTTAGTATTACCATTTATTGATGACAAACACTTAAAGTTTTACTTACATCCATGGGGAGA            AAAATTCAGCGTAAACAATGAATGGAAGCAGTACTTAACTCGCAGGGCTACCAGGCTTT            CCATACGGACCACACGCAGAGCCTCAGTGCACACACTTTTGTGTACAGTAACACAACATC            AAAAGCAACACAGCTGTTTACAGAAACGTAGGTCATTCTTTTCAGCCCTAATGGAGATGT            AATTAACAGTATCGAGCACTCTGGAAAACTACTCTGCAGGTTTATATGGACTACATGGCG            ATCATATCCTGTAGGGTACTGAAAGCTAAGTCCTCAAGACCCTTATGTTTAGATACACAC            AGTTTTTTAATAATCTTTAAAAACAGAAAAATCAAACGTCTTTTAAAGTCCCTGTCTGGCCC            TNTCCCAATCTCAAATGCAACTAAAAATGGAACCCAAATGATCTCCTAACGTTTTTAA            ATCTCCTCAAATGTTCCAATCTATACACATTGGCGGAAGACTTTTTTTCTAGGGTCTTT            TTAATCGTCCAGACACGGTTTCGACTCCTACTCATGGGGGCGCACACATCTGCTCTTAC            CGTTAATTGCCCTCCGGTCAATTTCTGTTCTCTCTCCAAATATCTCGTCCCAACACCACC            CCTCCAATTCATTATTCTCCGNTCACGATCCCTCTGTCTCCCGCCGATCCCCTCATCC            TCCCACTACTATTGCCTCCTTACTACCCGTCCTGTTCCCTCAATCCTCNCACCCAAT            TCCACCTCC</p>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_017454
<b>Insert Size:</b>	3180 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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.

**RefSeq:** [NM\\_017454.1](#), [NP\\_059348.1](#)

**RefSeq Size:** 3142 bp

**RefSeq ORF:** 1491 bp

**Locus ID:** 6780

**UniProt ID:** [O95793](#)

**Cytogenetics:** 20q13.13

**Domains:** DSRM

**Gene Summary:** Staufen is a member of the family of double-stranded RNA (dsRNA)-binding proteins involved in the transport and/or localization of mRNAs to different subcellular compartments and/or organelles. These proteins are characterized by the presence of multiple dsRNA-binding domains which are required to bind RNAs having double-stranded secondary structures. The human homologue of staufen encoded by STAU, in addition contains a microtubule-binding domain similar to that of microtubule-associated protein 1B, and binds tubulin. The STAU gene product has been shown to be present in the cytoplasm in association with the rough endoplasmic reticulum (RER), implicating this protein in the transport of mRNA via the microtubule network to the RER, the site of translation. [provided by RefSeq, Apr 2020]  
Transcript Variant: This variant (T1) lacks an exon in the 5' UTR compared to T2, the most abundantly expressed transcript variant. T1 encodes the same isoform (a) of 496 amino acids as T2.