

Product datasheet for **SC109798**

Staufen (STAU1) (NM_017453) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Staufen (STAU1) (NM_017453) 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)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_017453, the custom clone sequence may differ by one or more nucleotides

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ATGCTCAAGTTC AAGTGAAGTTC AGAACCCATCTGCTGCTCTCTCAGGGAGCCAAATACTGAACAAGA
ACAGTCTCTTCTCACAGCCTTTGATGAGTATTCTTCTACTACTAGCTCTCTGCCCTCTGAAAATGC
AGGTAGACCCATTCAAACCTCTGCTTTACCTCTGCATCTATTACATCCACCAGTGCAGCTGCAGAAAGC
ATAACCCCTACTGTAGAATAAATGCACCTGTCATGAACTTGGAAAAAACCAATGTATAAGCCTGTTG
ACCCTTACTCTCGGATGCAGTCCACCTATAACTACAACATGAGAGGAGGTGCTTATCCCCGAGGTA
TTACCCATTTCCAGTTCACCTTACTTTTCAAGTGGAACTTTCTGTGGGAGGACAGCAATTTAATGGC
AAAGGAAAGACAAGACAGGCTGCGAAACACGATGCTGCTGCCAAAGCGTTGAGGATCCTGCAGAATGAGC
CCCTGCCAGAGAGGCTGGAGGTGAATGGAAGAGAATCCGAAGAAGAAAATCTCAATAAATCTGAAAATAG
TCAAGTGTGGAGATTGCACTTAAACGGAACCTGCCTGTGAATTCGAGGTGGCCCGGAGAGTGGCCCA
CCCCACATGAAGAACTTTGTGACCAAGGTTTCGGTTGGGGAGTTTGTGGGGGAAGGTGAAGGAAAAGCA
AGAAGATTTCAAAGAAAATGCCGCCATAGCTGTTCTTGAGGAGCTGAAGAAGTTACCGCCCTGCCTGC
AGTTGAACGAGTAAAGCCTAGAATCAAAGAAAACAAAACCCATAGTCAAGCCACAGACAAGCCAGAA
TATGGCCAGGGGATCAATCCGATTAGCCGACTGGCCAGATCCAGCAGGCAAAAAGGAGAGAGCCAG
AGTACACGCTCCTCACAGAGCGAGGCTCCCGCGCCGAGGGAGTTTGTGATGCAGGTGAAGTTGGAAA
CCACACTGCAGAAGGAACGGGCACCAACAAGAAGTGGCCAAGCGCAATGCAGCCGAGAACATGCTGGAG
ATCCTTGGTTTCAAAGTCCCGCAGGCGCAGCCACCAACCCGCACTCAAGTCAAGGAGAGACACCCA
TAAAGAAACCAGGGATGGAAGAAAAGTAACTTTTTGAACTGGCTCTGGGGATGAAAATGGGACTAG
TAATAAAGAGGATGAGTTCAGGATGCCTTATCTAAGTCATCAGCAGCTGCCTGCTGGAATCTTCCCATG
GTGCCCGAGGTCGCCAGGCTGTAGGATGATCAAGGACATCACACCAAGATTTTACCAGGGCAGCTC
CGAATCCTGCCAAGGCCACGGTAACTGCCATGATAGCCCGAGAGTTGTTGTATGGGGCACCTCGCCAC
AGCCGAGACCATTTAAAGAATAACATCTTTCAGGCCAGTACCCATGGACCTCTCACGAGACCTCT
GAGCAACTGGACTATCTTCCAGAGTCCAGGGATTCCAGGTTGAATACAAAGACTTCCCCAAAACAACA
AGAACGAATTTGTATCTTATCAATTGCTCCTCTCAGCCACCTCTGATCAGCCATGGTATCGGCAAGGA
TGTGGAGTCTGCCATGATATGGCTGCGCTGAACATCTTAAAGTTGCTGTCTGAGTTGGACCAACAAAGT
ACAGAGATGCCAAGAACAGGAAACGGACCAATGTCTGTGTGGGAGGTGCTGA
    
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_017453 unedited

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NTGGTCAAATTTGATACGACTCACTATAGGCGGCCGGAATTCGCACGAGGGCTGCCGC
GTCTCTCTCGGCTCCCGCTTCTTTGACCGCTCCCCCCCCGGCCCGGGCGGCCCGCC
TCCTCCACGGCCACTCCGCCTCTCCCTCCCTTCGTCCCTTCTTCTCTCCCTTTTTTCC
TTCTTCTTCCCTCCTCGCCGCCACCGCCAGGACCGCCGGCCGGGGACGAGCTCGGA
GCAGCAGCCAGAGTTTATTAACCACTTAACTCTCAGAAGTGAACAAAGACAACATTTGTT
CCTGGAACGCCCTTTTTTAAAAAAGGTAGAAGTTTAGACTTCATAGCACTGAATTAACC
TGCACTGAAAGCTGTTTACCTGCATTTGTTCACTTTTGTGAAAGTGACCATGTCTCAAG
TTCAAGTGCAAGTTCAGAACCCATCTGCTGCTCTCTCAGGGAGCCAAATACTGAACAAGA
ACCAGTCTCTTCTCACAGCCTTTGATGAGTATTCTTCTACTACTAGCTCTCTGCCCT
CTGAAAATGCAGGTAGACCCATTCAAACCTCTGCTTTACCTCTGCATCTATTACATCCA
CCAGTGCAGCTGCAGAAAGCATAACCCCTACTGTAGAATAAATGCACTGTGCATGAAAC
TTGGAAAAAACCAATGTATAAGCCTGTTGACCCTTACTCTCGGATGCAGTCCACCTATA
ACTACAACATGAGAGGAGGTGCTTATCCCCGAGGTACTTTTACCCATTTCCAGTCCAC
CTTTACTTTATCAAGTGGAACTTTCTGTGGGAAGACCAGATTTAATGGCANAGGNAAAG
ACAGACAGGCTGCGAAACACGATGCTGCTNGCCAAAGCGTTGAGGATCCTGCAGAATGAG
CCCCTGCCANNANNAGCTGNNAGTGAATGGNANANAATCNCGAGAAGA
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_017453 unedited CTATGGACCGCGGCCGCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTTAATTAGTAG CTGTTTATTGATCAATGGTTTGATATAAAGTTATTTTCAGATCTTCAAACCTTTTGCCGAGA TGGAAATCACAAGCATTACAAAGTTTTTTCTTAAAAATAAAAAAAGGATAGGGGCAAGTT GGGAGGGGACCAACCTAGCAGTAGTGGCATTGAGAATAAATTAACAAAAAATTTAGTA TTACCATTTATTGATGACAAACACTTAAGTTTTACTTACATTCCATGGGGAGAAAAATTC CAGCGTAAACAATGAATGGAAGCAGTACTTAACCTCGCAGGGCTACCAGGCTTTCCATACG GACCACACGCAGAGCCTCAGTGACACACTTCTGTGTACAGTAACACAACATCAAAGCA ACACAGCTGTATACAGAAACGTAGGTCATTCTTTTCAGCCCTAATGGAGATGTAATTAAC AGTATCGAGCACTCTGAAAACTACTCTGCAGGTTTATATGGACTACATGGAGATCATAT CCTGTAGTGTAGTGAAAGCTAAGTCTCAAGAGCCATATGTATAGATACACAATGTTTTT TAATAATCTTTAAACAGAGATCAAAGTTCATTTAAGTCTGTTTGCATTAACAAAAATA AAAATGAAATAAAAAATGGAACCAATGATCATCTAAAGTTTAAAATTCCTAAATTGTCCA ATTTATACAACTGTGGGAGACTTATTCAAGGTTTTTGAAGTCCAAGACTGTTTCANCTGA ACCAAAGGGCACACAATTTGCATCACTGAAACTGTCCTGGGGTAGTCAATGAAAAACAA TGCTAAACCACATACCCTGGATATGATCTTTGTGCGGTTAAATATTGAANAAGCAGTCTT AAAACGTTTTACAATGGGCCTATTAAGTGAACAATTGAAAATCTNNAAGAAGATTCT TTAGGGGCGTATCAATCACAGAGAATTAGGAACCTAG
Restriction Sites:	NotI-NotI
ACCN:	NM_017453
Insert Size:	4200 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:	<u>NM_017453.1</u> , <u>NP_059347.1</u>
RefSeq Size:	3688 bp
RefSeq ORF:	1734 bp
Locus ID:	6780
UniProt ID:	<u>O95793</u>
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 (T3) differs in the 5' UTR and the 5' coding region, and uses an upstream translation start site compared to variant T2. The encoded isoform (b) has a longer and distinct N-terminus compared to isoform a. Both variants T3 and T7 encode the same isoform (b).