

## Product datasheet for SC322648

### 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:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for SC322648  
AACCCTTAACCTCTCAGAACTGAACAAAGACAACATTGTTCTGGAACGCCCTCTTTTT  
AAAAAAGGTAGAACTTTAGACTTCATAGCACTGAATTAACCTGCACTGAAAGCTGTTTA  
CCTGCATTTGTTCACTTTTGTTGAAAGTGACCATGTCTCAAGTTCAAGTGCAAGTTCAGA  
ACCCATCTGCTGCTCTCTCAGGGAGCCAAATACTGAACAAGAACCAGTCTCTTCTCTCAC  
AGCCTTTGATGAGTATTCTTCTACTACTAGCTCTCTGCCCTCTGAAAATGCAGGTAGAC  
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ACGATGCTGCTGCCAAAGCGTTGAGGATCCTGCAGAATGAGCCCTGCCAGAGAGGCTGG  
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AGAAGACACCCATAAAGAAACCAGGGATGGAAGAAAAGTAACTTTTTTGAACCTGGCT  
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TTAGTCAAGGACATCACACCAAAGATTTTACCAGGCGAGCTCCGAATCCTGCCAAGGCCA  
CGGTAACCTGCCATGATAGCCGAGAGTTGTTGTATGGGGGCACCTCGCCACAGCCGAGA



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CCATTTTAAAGAATAACATCTCTTCAGGCCACGTACCCCATGGACCTCTCACGAGACCCT
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CAATGTCTGTGTGGGAGGTGCTGAACCTTTTCTGGCCATGAACCATTATAAAATCCCA
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TTCTCCCATGGAATGTAAGTAAAACCTTAAAGTGTGTGCATCAATAAATGGTAATACTAA
AAAAAAAAAAAAA

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- Restriction Sites:** Please inquire
- ACCN:** NM\_017453
- 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).
- OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
- 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.

**RefSeq:** [NM\\_017453.2](#), [NP\\_059347.2](#)

**RefSeq Size:** 3688 bp

**RefSeq ORF:** 1734 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 (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).