

## Product datasheet for **SC310327**

### Staufen (STAU1) (NM\_017452) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Staufen (STAU1) (NM_017452) Human Untagged Clone
Tag:	Tag Free
Symbol:	Staufen
Synonyms:	PPP1R150; STAU
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_017452 edited  
 ATGAAACTTGGAAAAACCAATGTATAAGCCTGTTGACCCTTACTCTCGGATGCAGTCC  
 ACCTATAACTACAACATGAGAGGAGGTGCTTATCCCCGAGGTACTTTTACCCATTTC  
 GTTCCACCTTTACTTTATCAAGTGAACCTTTCTGTGGGAGGACAGCAATTTAATGGCAAA  
 GGAAAGACAAGACAGGCTGCGAAACACGATGCTGCTGCCAAAGCGTTGAGGATCCTGCAG  
 AATGAGCCCTGCCAGAGAGGCTGGAGGTGAATGGAAGAGAATCCGAAGAAGAAAATCTC  
 AATAAATCTGAAATAAGTCAAGTGTGTTGAGATTGCACTTAAACGGAACCTGCCTGTGAAT  
 TTCGAGGTGGCCCGGAGAGTGGCCACCCACATGAAGAACCTTGTGACCAAGTTTCG  
 GTTGGGGAGTTTGTGGGGGAAGGTGAAGGGAAAAGCAAGAAGATTTCAAAGAAAAATGCC  
 GCCATAGCTGTTCTTGTAGGAGCTGAAGAAGTTACCGCCCTGCCTGCAGTTGAACGAGTA  
 AAGCCTAGAATCAAAAAGAAAACAAAACCCATAGTCAAGCCACAGACAAGCCAGAAATAT  
 GGCCAGGGGATCAATCCGATTAGCCGACTGGCCAGATCCAGCAGGCAAAAAGGAGAAG  
 GAGCCAGAGTACACGCTCCTCACAGAGCGAGGCCCTCCCGCGCCGAGGGAGTTTGTGATG  
 CAGGTGAAGTTGGAAACCACACTGCAGAAGGAACGGGCACCAACAAGAAGGTGGCCAAG  
 CGCAATGCAGCCGAGAACATGCTGGAGATCCTTGGTTTCAAAGTCCCGCAGGCGCAGCCC  
 ACCAAACCCGCACTCAAGTCAGAGGAGAAGACACCATAAAGAAACCAGGGGATGGAAGA  
 AAAGTAACCTTTTTGAACTGGCTCTGGGGATGAAAATGGGACTAGTAATAAAGAGGAT  
 GAGTTCAGGATGCCTTATCTAAGTCATCAGCAGCTGCCTGCTGGAATCTTCCCATGGTG  
 CCCGAGGTGCCCCAGGCTGTAGGAGTTAGTCAAGGACATCACACCAAGATTTTACCAGG  
 GCAGTCCGAATCCTGCCAAGGCCACGGTAACTGCCATGATAGCCGAGAGTTGTGTAT  
 GGGGGCACCTCGCCACAGCCGAGACCATTTAAAGAATAACATCTCTTACAGCCACGTA  
 CCCCATGGACCTCTCACGAGACCCTCTGAGCAACTGGACTATCTTCCAGAGTCCAGGGA  
 TTCCAGGTTGAATACAAAGACTTCCCCAAAAACAAGAACGAATTTGTATCTCTTATC  
 AATTGCTCCTCTCAGCCACCTCTGATCAGCCATGGTATCGGCAAGGATGTGGAGTCTGC  
 CATGATATGGCTGCGCTGAACATCTTAAAGTTGCTGTCTGAGTTGGACCAACAAAGTACA  
 GAGATGCCAAGAACAGGAAACGGACCAATGTCTGTGTGGGAGGTGCTGA



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<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_017452
<b>Insert Size:</b>	1500 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>OTI Annotation:</b>	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.
<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).
<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_017452.2</a> , <a href="#">NP_059346.2</a>
<b>RefSeq Size:</b>	3399 bp
<b>RefSeq ORF:</b>	1491 bp
<b>Locus ID:</b>	6780
<b>UniProt ID:</b>	<a href="#">O95793</a>
<b>Cytogenetics:</b>	20q13.13
<b>Domains:</b>	DSRM
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (T2) is most abundantly expressed, and encodes the protein isoform (a) of 496 amino acids.</p>