

## Product datasheet for **RG218095**

### **Staufen (STAU1) (NM\_017452) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Staufen (STAU1) (NM_017452) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Staufen
Synonyms:	PPP1R150; STAU
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RG218095 representing NM\_017452  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAAACTTGAAAAAACAATGTATAAGCCTGTTGACCCTACTCTCGGATGCAGTCCACCTATAACT  
 ACAACATGAGAGGAGGTCTTATCCCCGAGGACTTTTTACCCATTTCCAGTTCCACCTTTACTTTATCA  
 AGTGGAACTTTCTGTGGGAGGACAGCAATTTAATGGCAAAGGAAAAGACAAGACAGGCTGCCAAAACACGAT  
 GCTGCTGCCAAAGCGTTGAGGATCTGCAGAATGAGCCCCTGCCAGAGAGGCTGGAGGTGAATGGAAGAG  
 AATCCGAAGAAGAAAATCTCAATAAATCTGAAATAAGTCAAGTGTGAGATTGCACTTAAACGGAACCT  
 GCCTGTGAATTTGAGGTTGGCCGGGAGAGTGGCCACCCACATGAAGAAGTGTGACCAAGGTTTCG  
 GTTGGGGAGTTTGTGGGGGAAGGTGAAGGGAAAAGCAAGAAGATTTCAAAGAAAAATGCCCCATAGCTG  
 TTCTTGAGGAGCTGAAGAAGTTACCGCCCTGCCTGCAGTTGAACGAGTAAAGCCTAGAATCAAAAAGAA  
 AACAAAACCCATAGTCAAGCCACAGACAAGCCAGAATATGGCCAGGGGATCAATCCGATTAGCCGACTG  
 GCCCAGATCCAGCAGGCAAAAAAGGAGAAGGAGCCAGAGTACACGCTCCTCACAGAGCGAGGCTCCCGC  
 GCCGCAGGGAGTTTGTGATGCAGGTGAAGTTGGAAACCACACTGCAGAAGGAACGGGCACCAACAAGAA  
 GGTGGCCAAGCGCAATGCAGCCGAGAACATGCTGGAGATCCTTGGTTTCAAAGTCCCGCAGGCGCAGCCC  
 ACCAAAACCCGACTCAAGTCAGAGGAGAAGACCCATAAAGAAACCAGGGGATGGAAGAAAAGTAACTT  
 TTTTTGAACCTGGCTCTGGGGATGAAAAATGGGACTAGTAATAAAGAGGATGAGTTTCCAGGATGCCTTATCT  
 AAGTCATCAGCAGCTGCCTGCTGGAATCTTCCCATGGTCCCGAGGTCGCCAGGCTGTAGGAGTTAGT  
 CAAGGACATCACCCAAGATTTTACCAGGGCAGCTCCGAATCCTGCCAAGGCCACGGTAACTGCCATGA  
 TAGCCCGAGAGTTGTTGTATGGGGGCACCTCGCCACAGCCGAGACCATTTTAAAGAATAACATCTCTTC  
 AGGCCACGTACCCCATGGACCTCTCACGAGACCTCTGAGCAACTGGACTATCTTCCAGAGTCCAGGGA  
 TTCCAGGTTGAATACAAAGACTTCCCCAAAAACAACAAGAACGAATTTGTATCTTATCAATTGCTCCT  
 CTCAGCCACCTCTGATCAGCCATGGTATCGGCAAGGATGTGGAGTCTGCCATGATATGGCTGCGCTGAA  
 CATCTTAAAGTTGCTGTCTGAGTTGGACCAACAAGTACAGAGATGCCAAGAACAGGAAACGGACCAATG  
 TCTGTGTGTGGGAGGTGC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG218095 representing NM\_017452  
 Red=Cloning site Green=Tags(s)

MKLGKKPMYKVPDPSRMQSTYNYNMRGGAYPPRYFYPFPVPLLYQVELSVGGQQFNGKGTKRQAAKHD  
 AAKALRILQNEPLPERLEVNGRESEENLNKSEISQVFEIALKRNLVNFVARESGPPHMKNFVTKVS  
 VGEFVGEGEGKSKKISKKNAAIAVLEELKLLPPLPAVERVKPRIKKTKPIVKPQTSPEYQGGINPISRL  
 AQIQQAKKEPEYTLTTERGLPRRREFVMQVKVGNHTAEGTGTNKKVAKRNAENMLEILGFKVPAQAP  
 TKPALKSEKTPIKKPGDGRKVTFFEPGSGDENGTSNKEDEFMPYLSHQQLPAGILPMVPEVAQAVGVS  
 QGHHTKDFTRAAPNPAKATVTAMIARELLYGGTSPTAETILKNNISSGHVPHGPLTRPSEQLDYLSRVQG  
 FQVEYKDFPKNNKNEFVSLINCSSQPPLISHGIGKDVESCHDMAALNILKLLSELDQQSTEMPRTGNGPM  
 SVCGR

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_017452

**ORF Size:** 1488 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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\\_017452.3](#)

**RefSeq Size:** 3399 bp

**RefSeq ORF:** 1491 bp

**Locus ID:** 6780

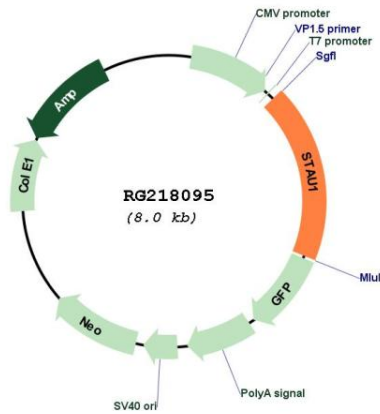
**UniProt ID:** [O95793](#)

**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]

**Product images:**



Circular map for RG218095