

## Product datasheet for **RG228925**

### STAU2 (NM\_001164384) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	STAU2 (NM_001164384) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	STAU2
Synonyms:	39K2; 39K3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG228925 representing NM\_001164384  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCTTCAAATAAATCAGATGTTCTCAGTGCAGCTGAGTCTTGGTGAGCAGACATGGGAATCCGAAGGCA  
 GCAGTATAAAGAAGGCTCAGCAGGCTGTTGCCAATAAAGCTTTGACTGAATCTACGTTCCCAAACCAAGT  
 TCAGAAGCCACCCAAAAGTAATGTTAAACAATAACCCAGGCAGTATAACTCCAACCTGTGGAACCTGAATGGG  
 CTTGCTATGAAAAGGGGAGAGCCTGCCATCTACAGGCCATTAGATCCAAAGCCATTCCCAAATTATAGAG  
 CTAATTACAACCTTCGGGGCATGTACAATCAGAGGTATCATTGCCCAGTGCCTAAGATCTTTTATGTTCA  
 GCTCACTGTAGGAAATAATGAATTTTTGGGGAAGGAAAGACTCGACAAGCTGCTAGACACAATGCTGCA  
 ATGAAAGCCCTCAAGCACTGCAGAATGAACCTATTCCAGAAAGATCTCCTCAGAATGGTGAATCAGGAA  
 AGGATATGGATGATGACAAAGATGCAAAATAAGTCTGAGATCAGCTTAGTGTGTTGAAATTGCTCTGAAGCG  
 AAATATGCCTGTCAGTTTTGAGGTTATTAAGAAAGTGGACCACCACATATGAAAAGCTTTGTTACTCGA  
 GTGTCAGTAGGAGAGTTCTCTGCAGAAGGAGAAGGAAATAGCAAAAACTCTCCAAGAAGCGCGCTGCGA  
 CCACCGTCTTACAGGAGCTTAAAAAATCCACCTCTTCTGTGGTGGAAAAGCCAAAACCTATTTTTTAA  
 AAAACGCCCTAAAACAATAGTAAAGGCCGGACCAGAATATGGCCAAGGGATGAACCTATTAGCCGCGCTG  
 GCGCAAAATCAACAGGCCAAAAGGAAAAGGAGCCGGATTATGTTTTGCTTTCAGAAAGAGGAATGCCTC  
 GACGTCGAGAATTTGTGATGCAGGTGAAGGTAGGCAATGAAGTTGCTACAGGAACAGGACCTAATAAAAA  
 GATAGCCAAAAAATGCTGCAGAAGCAATGCTGTTACAACCTGGTTATAAAGCATCCACTAATCTTCAG  
 GATCAACTTGAGAAGACAGGGGAAAACAAGGATGGAGTGGTCCAAGCCTGGGTTTCTGAACCAACAA  
 ATAATACTCCAAAAGGAATCTTCATTTGTCTCCTGATTTTATCAAGAGATGGAAGCCAGCCGCCACAA  
 AGTAATCTCTGGCACTACTCTAGGCTATTTGTACCCCAAAGATATGAACCAACCTCAAGCTCTTTCTTC  
 AGTATATCTCCACATCGAATAGTTCAGCTACAATTGCCAGGAACTCCTTATGAATGGAACATCTTCTA  
 CAGCTGAAGCCATAGTTTTAAAAGGAAGTTCTCTACTCCCCTTGTCTCCAGTACAACCTTCAAAAACA  
 ACTGGAATATTTAGCAAGGATTCAAGGCTTTCAGGTA

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG228925 representing NM\_001164384  
 Red=Cloning site Green=Tags(s)

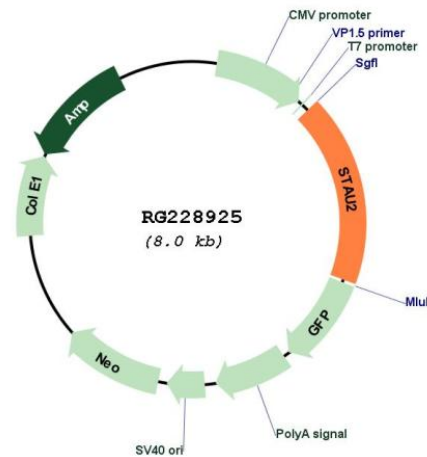
MLQINQMFSVQLSLGEQTWESESSIKKAQQAVANKALTESTLPKPVQKPPKSNVNNNPGSITPTVELNG  
 LAMKRGEPAIYRPLDPKFPFNRYRANYNFRGMYNQRYHCPVPKIFYVQLTVGNNEFFGEGKTRQAARHNAA  
 MKALQALQNEPIPERSPQNGESGKMDDDKDANKSEISLVFEIALKRNMPVSFEVIKESGPPHMKSFVTR  
 VSVGEFSAEAGEGNSKLSKKRAATTVLQELKLLPPLPVVEKPKLFFKKRPKTIIVKAGPEYQGMNPI SRL  
 AQIQQAKKEKEDYVLLSERGMPPRRREFVMQVKVGNVATGTGPNKKIAKKNAAEAMLLQLGYKASTNLQ  
 DQLEKTGENKGWSGPKPGFPEPTNNTPKGILHLSPDVYQEMEASRHKVISGTTLGYLSPKDMNQPSSTFF  
 SISPTSNSATIARELLMNGTSSTAEAIGLKGSSPTPPCSPVQPSKQLEYLARIQGFQV

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

**Plasmid Map:**


**ACCN:** NM\_001164384

**ORF Size:** 1437 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\\_001164384.1](#), [NP\\_001157856.1](#)

**RefSeq Size:** 4225 bp

**RefSeq ORF:** 1440 bp

**Locus ID:** 27067

**UniProt ID:** [Q9NUL3](#)

**Cytogenetics:** 8q21.11

**Protein Families:** Transcription Factors

**Gene Summary:** Staufen homolog 2 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. Staufen homolog 2 shares 48.5% and 59.9% similarity with drosophila and human staufen, respectively. The exact function of Staufen homolog 2 is not known, but since it contains 3 copies of conserved dsRNA binding domain, it could be involved in double-stranded RNA binding events. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Aug 2009]