

Product datasheet for **RG228463**

STAU2 (NM_001164380) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	STAU2 (NM_001164380) 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:

>RG228463 representing NM_001164380
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCAAACCCAAAAGAGAAAAGTGAATGTGTCTGGTAAATGAGTTAGCCCGTTTCAATAGAGTCCAAC
 CCCAGTATAAACTTCTGAATGAAAGAGGGCCTGCCTCATTCAAAGATGTTCTCAGTGCAGCTGAGTCTTGG
 TGAGCAGACATGGGAATCCGAAGCAGCAGTATAAAGAAGGCTCAGCAGGCTGTTGCCAATAAAGCTTTG
 ACTGAATCTACGCTTCCCAAACAGTTCAGAAGCCACCCAAAAGTAAATGTTAAACAATAACCCAGGCAGTA
 TAACTCCAAGTGTGGAAGTGAATGGGCTTGTATGAAAAGGGGAGAGCCTGCCATCTACAGGCCATTAGA
 TCCAAAGCCATCCCAAATTATAGAGCTAATTACAACCTTCGGGGCATGTACAATCAGAGGTATCATTGC
 CCAGTGCCTAAGATCTTTATGTTGAGTCACTGTAGGAAATAATGAATTTTTGGGGAAGGAAAGACTC
 GACAAGCTGCTAGACACAATGCTGCAATGAAAGCCCTCCAAGCACTGCAGAATGAACCTATTCCAGAAA
 ATCTCCTCAGAATGGTGAATCAGGAAAGGATGTGGATGATGACAAAGATGCAAAATAGTCTGAGATCAGC
 TTAGTGTTTGAAATTGCTCTGAAGCGAAATATGCCTGTCAGTTTTGAGGTTATTAAGAAAGTGGACCAC
 CACATATGAAAAGCTTTGTTACTCGAGTGTGAGTGGAGAGTTCTCTGCAGAAGGAGAAGGAAATAGCAA
 AAAACTCTCCAAGAAGCGCGCTGCGACCACCGTCTTACAGGAGCTTAAAAAACTTCCACCTCTTCTGTG
 GTGGAAAAGCCAAAAGTATTTTTTAAAAACGCCCTAAAAACAATAGTAAAGGCCGGACCAGAATATGGCC
 AAGGGATGAACCTATTAGCCGCTGGCGCAAATCAACAGGCCAAAAAGGAAAAGGAGCCGGATTATGT
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 GTTATAAAGCATCCACTAATCTTCAGGATCAACTTGAGAAGACAGGGGAAAAACAAGGATGGAGTGGTCC
 AAAGCTGGGTTTCTGAACCAACAAATAATACTCCAAAAGGAATCTTCAATTTGCTCCTGATGTTTAT
 CAAGAGATGGAAGCCAGCCGCCCAAAAGTAACTCTGGCACTACTCTAGGCTATTTGTCACCCAAAGATA
 TGAACCAACCTTCAAGCTCTTTCTTCAAGTATATCTCCACATCGAATAGTTTCAAGTACAATTGCCAGGGA
 ACTCCTTATGAATGGAACATCTTCTACAGCTGAAGCCATAGGTTTAAAAGGAAGTTCTCCTACTCCCTT
 TGTTCTCCAGTACAACCTTCAAACAAGTGAATATTTAGCAAGGATTCAAGGCTTTCAGGCAGCCTTAA
 GTGCCCTGAAACAATTTCTGAACAAGGACTGGATCCAATCGATGGAGCAATGAATATCGAAAAAGGTTT
 TCTTGAACCAAGCAAGCATCTGAGAGAGAAAGCGGACAATAACCAGGCACCCCGGGCTCCATCGT
 CAGGACTGCAAGAAATCAAACCTCGGCCGTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

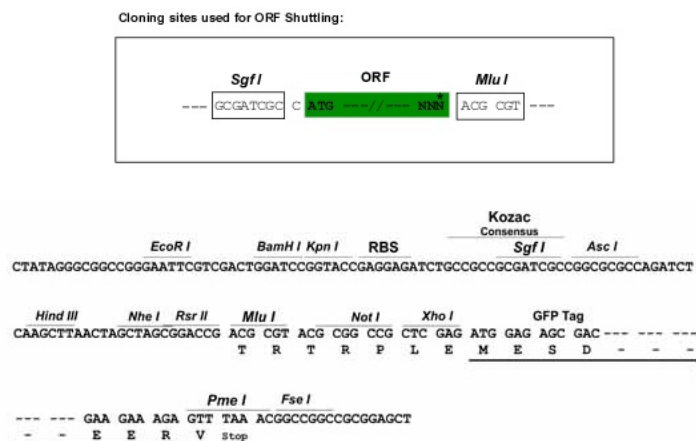
>RG228463 representing NM_001164380
 Red=Cloning site Green=Tags(s)

MANPKEKTAMCLVNELARFNRVQPQYKLLNERGPAHSMKFSVQLSLGEQTWESESSIKKAQQAVANKAL
 TESTLPKPVQKPPKSNVNNNPGSITPTVELNGLAMKRGEPAIYRPLDPKPFPNYRANYNFRGMYNQRYHC
 PVPKIFYVQLTVGNNEFFGEGKTRQAARHNAAMKALQALQNEPIPERSPQNGESGKDVEDDKDANKSEIS
 LVFEIALKRNPVSFEVIKESGPPHMKSFVTRVSVGEFSAEGEGNSKKLSKKRAATTVLQELKKLPLPV
 VEKPKLFFKKRPKTIIVKAGPEYQGMPNISRLAQIQAKKEKEPDYVLLSERGMPPRRREFVMQVKGNEV
 ATGTGPNKKIAKKNAAEAMLLQLGYKASTNLQDQLEKTGENKGSWSPKPGFPEPTNNTPKGILHLSPDVY
 QEMEASRHKVISGTTLGYLSPKDMNQSSFFSISPTSNSATIARELLMNGTSSTAEIIGLKGSSPTTP
 CSPVQPSKQLEYLARIQGFQAALSALKQFSEQGLDPIDGAMNIEKGSLEKQAKHLREKADNNQAPPGSIA
 QDCKKSNSAV

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001164380

ORF Size: 1710 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_001164380.2](#)

RefSeq Size: 3065 bp

RefSeq ORF: 1713 bp

Locus ID: 27067

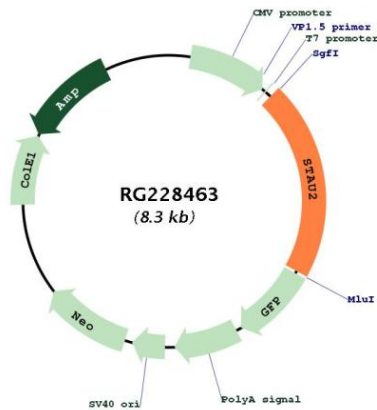
UniProt ID: [Q9NUL3](#)

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 staufer, 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]

Product images:



Circular map for RG228463