

Product datasheet for **RC228925**

STAU2 (NM_001164384) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	STAU2 (NM_001164384) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	STAU2
Synonyms:	39K2; 39K3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC228925 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCTTCAAATAAATCAGATGTTCTCAGTGCAGCTGAGTCTTGGTGAGCAGACATGGGAATCCGAAGGCA
 GCAGTATAAAGAAGGCTCAGCAGCTGTTGCCAATAAAGCTTTGACTGAATCTACGTTCCCAAACCACT
 TCAGAAGCCACCCAAAAGTAATGTTAAACAATAACCCAGGCAGTATAACTCCAACCTGTGAACTGAATGGG
 CTTGCTATGAAAAGGGGAGAGCCTGCCATCTACAGGCCATTAGATCCAAAGCCATTCCCAAATTATAGAG
 CTAATTACAACCTTCGGGGCATGTACAATCAGAGGTATCATTGCCAGTGCCTAAGATCTTTTATGTTCA
 GCTCACTGTAGGAAATAATGAATTTTTGGGGAAGGAAAGACTCGACAAGCTGCTAGACACAATGCTGCA
 ATGAAAGCCCTCAAGCACTGCAGAATGAACCTATTCCAGAAAGATCTCCTCAGAATGGTGAATCAGGAA
 AGGATATGGATGATGACAAAGATGCAAAATAAGTCTGAGATCAGCTTAGTGTGTTGAAATTGCTCTGAAGCG
 AAATATGCCTGTCAGTTTTGAGGTTATTAAGAAAGTGGACCACCACATATGAAAAGCTTTGTTACTCGA
 GTGTCAGTAGGAGAGTTCTCTGCAGAAGGAGAAGGAAATAGCAAAAACTCTCCAAGAAGCGCGCTGCGA
 CCACCGTCTTACAGGAGCTTAAAAAATCCACCTCTTCTGTGGTGGAAAAGCCAAAACTATTTTTTAA
 AAAACGCCCTAAAAAATAGTAAAGGCCGACCAGAATATGGCCAAGGGATGAACCTATTAGCCGCGCTG
 GCGCAAAATCAACAGGCCAAAAAGGAAAAGGAGCCGGATTATGTTTTGCTTTCAGAAAGAGGAATGCCTC
 GACGTCGAGAATTTGTGATGCAGGTGAAGGTAGGCAATGAAGTTGCTACAGGAACAGGACCTAATAAAAA
 GATAGCCAAAAAATGCTGCAGAAGCAATGCTGTTACAACCTGGTTATAAAGCATCCACTAATCTTCAG
 GATCAACTTGAGAAGACAGGGGAAAACAAGGATGGAGTGGTCCAAGCCCTGGGTTTCTGAACCAACAA
 ATAATACTCCAAAAGGAATCTTCATTTGTCTCCTGATTTTCAAGAGATGGAAGCAGCCGCCACAA
 AGTAATCTCTGGCACTACTCTAGGCTATTTGTACCCAAAGATATGAACCAACCTCAAGCTCTTTCTTC
 AGTATATCTCCACATCGAATAGTTCAGCTACAATTGCCAGGAACTCCTTATGAATGGAACATCTTCTA
 CAGCTGAAGCCATAGTTTTAAAAGGAAGTTCTCTACTCCCCTTGTCTCCAGTACAACCTTCAAAACA
 ACTGGAATATTTAGCAAGGATTCAAGGCTTTCAGGTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC228925 protein sequence
 Red=Cloning site Green=Tags(s)

MLQINQMFSVQLSLGEQTWESESSIKKAQQAVANKALTESTLPKPVQKPPKSNVNNNPGSITPTVELNG
 LAMKRGEPAIYRPLDPKPFNRYRANYNFRGMYNQRYHCPVPKIFYVQLTVGNNEFFGEGKTRQAARHNAA
 MKALQALQNEPIPERSPQNGESGKMDDDKDANKSEISLVFEIALKRNMPVSFEVIKESGPPHMKSFVTR
 VSVGEFSAEGEGNSKLSKKRAATTVLQELKLLPPLPVVEKPKLFFKKRPKTIIVKAGPEYQGMNPI SRL
 AQIQQAKKEKEDYVLLSERGMPPRRREFVMQVKVNEVATGTGPNKIAKKNAEAMLLQLGYKASTNLQ
 DQLEKTGENKGSWSPKPGFPEPTNNTPKGILHLSPDVYQEMEASRHKVISGTTLGYLSPKDMNQSSSF
 SISPTSNSATIARELLMNGTSSTAEAIGLKGSSPTPPCSPVQPSKQLEYLARIQGFQV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6560_d09.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

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

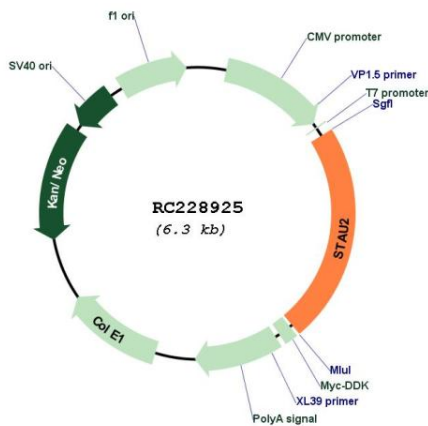
UniProt ID: [Q9NUL3](#)
Cytogenetics: 8q21.11

Protein Families: Transcription Factors

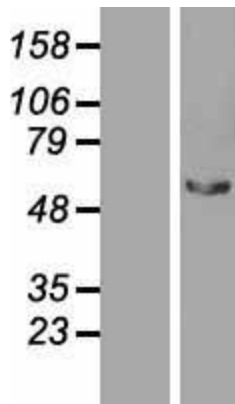
MW: 52.8 kDa

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 RC228925



Western blot validation of overexpression lysate (Cat# [LY431953]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC228925 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).