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Product datasheet for RC228873

STAU2 (NM_001164383) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	STAU2 (NM_001164383) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	STAU2
Synonyms:	39K2; 39K3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC228873 representing NM_001164383 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGAAAGCCCTCCAAGCACTGCAGAATGAACCTATTCCAGAAAGATCTCCTCAGAATGGTGAATCAGGAA AGGATGTGGATGATGACAAAGATGCAAATAAGTCTGAGATCAGCTTAGTGTTTGAAATTGCTCTGAAGCG AAATATGCCTGTCAGTTTTGAGGTTATTAAAGAAAGTGGACCACCACATATGAAAAGCTTTGTTACTCGA GTGTCAGTAGGAGAGTTCTCTGCAGAAGGAGAAGGAAATAGCAAAAAACTCTCCAAGAAGCGCGCTGCGA CCACCGTCTTACAGGAGCTTAAAAAACTTCCACCTCTTCCTGTGGTGGAAAAGCCAAAACTATTTTTTAA AAAACGCCCTAAAACAATAGTAAAGGCCGGACCAGAATATGGCCAAGGGATGAACCCTATTAGCCGCCTG GCGCAAATTCAACAGGCCAAAAAGGAAAAGGAGCCGGATTATGTTTTGCTTTCAGAAAGAGGAATGCCTC GACGTCGAGAATTTGTGATGCAGGTGAAGGTAGGCAATGAAGTTGCTACAGGAACAGGACCTAATAAAAA GATAGCCAAAAAAAAATGCTGCAGAAGCAATGCTGTTACAACTTGGTTATAAAGCATCCACTAATCTTCAG GATCAACTTGAGAAGACAGGGGAAAACAAAGGATGGAGTGGTCCAAAGCCTGGGTTTCCTGAACCAACAA ATAATACTCCAAAAGGAATTCTTCATTTGTCTCCTGATGTTTATCAAGAGATGGAAGCCAGCCGCCACAA AGTAATCTCTGGCACTACTCTAGGCTATTTGTCACCCAAAGATATGAACCAACCTTCAAGCTCTTTCTTC AGTATATCTCCCACATCGAATAGTTCAGCTACAATTGCCAGGGAACTCCTTATGAATGGAACATCTTCTA CAGCTGAAGCCATAGGTTTAAAAGGAAGTTCTCCTACTCCCCCTTGTTCTCCAGTACAACCTTCAAAACA ACTGGAATATTTAGCAAGGATTCAAGGCTTTCAGGCAGCCTTAAGTGCCTTGAAACAATTTTCTGAACAA GGACTGGATCCAATCGATGGAGCAATGAATATCGAAAAAGGTTCTCTTGAAAAACAAGCCAAGCATCTGA GAGAGAAAGCGGACAATAACCAGGCACCCCCGGGCTCCATCGCTCAGGACTGCAAGAAATCAAACTCGGC CGTC ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

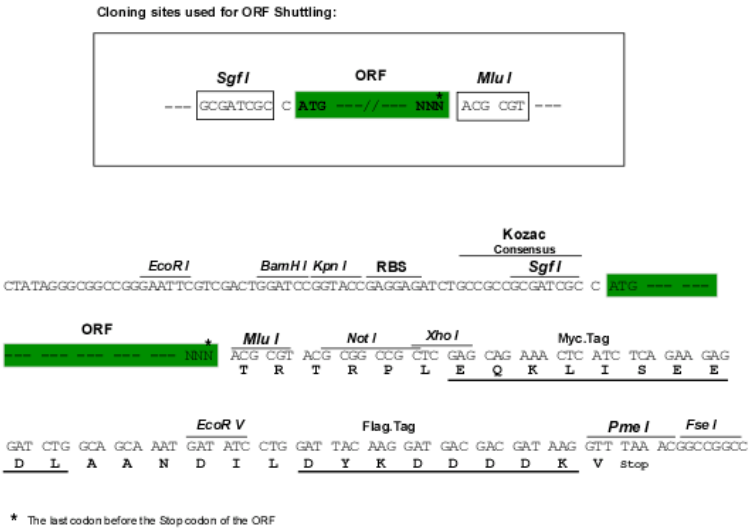
>RC228873 representing NM_001164383
Red=Cloning site Green=Tags(s)

MKALQALQNEPIPERSPQNGESGKDVDDDKDANKSEISLVFEIALKRNMPVSFEVIKESGPPHMKSFVTR
VSVGEFSAEGEGNSKKLSKKRAATTVLQELKKLPPLPVVEKPKLFFKKRPKTIVKAGPEYGQGMNPISRL
AQIQQAKKEKEPDYVLLSERGMPRRREFVMQVKVGNEVATGTGPNKKIAKKNAAEAMLLQLGYKASTNLQ
DQLEKTGENKGWSGPKPGFPEPTNNTPKGILHLSPDVYQEMEASRHKVISGTTLGYLSPKDMNQPSSSFF
SISPTSNSSATIARELLMNGTSSTAEAIGLKGSSPTPPCSPVQPSKQLEYLARIQGFQAALSALKQFSEQ
GLDPIDGAMNIEKGSLEKQAKHLREKADNNQAPPGSIAQDCKKSNSAV

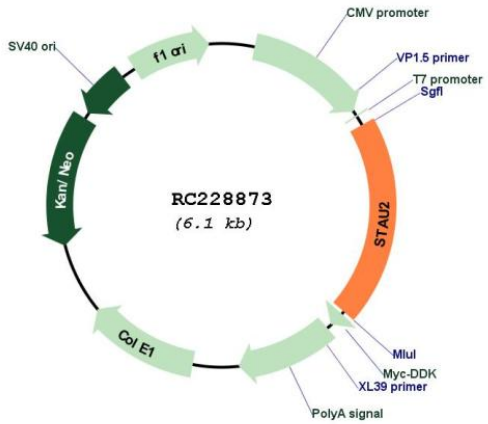
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001164383

ORF Size:	1194 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_001164383.1, NP_001157855.1
RefSeq Size:	2459 bp
RefSeq ORF:	1197 bp
Locus ID:	27067
UniProt ID:	Q9NUL3
Cytogenetics:	8q21.11
Protein Families:	Transcription Factors
MW:	43.3 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 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]