

## Product datasheet for **SC115029**

### STAU2 (NM\_014393) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	STAU2 (NM_014393) Human Untagged Clone
Tag:	Tag Free
Symbol:	STAU2
Synonyms:	39K2; 39K3
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF within SC115029 sequence for NM\_014393 edited (data generated by NextGen Sequencing)

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ATGCTTCAAATAAATCAGATGTTCTCAGTGCAGCTGAGTCTTGGTGAGCAGACATGGGAA
TCCGAAGGCAGCAGTATAAAGAAGGCTCAGCAGGCTGTTGCCAATAAAGCTTTGACTGAA
TCTACGCTTCCCAAACAGTTTCAAAGCCACCCAAAAGTAATGTTAACAATAACCCAGGC
AGTATAACTCAAAGTGTGAACTGAATGGGCTTGTATGAAAAGGGGAGAGCCTGCCATC
TACAGGCCATTAGATCCAAAGCCATTCCCAAATTATAGAGCTAATTACAACCTTTCGGGGC
ATGTACAATCAGAGGTATCATTGCCAGTGCCTAAGATCTTTTATGTTTCAGCTCACTGTA
GGAAATAATGAATTTTTGGGGAAGGAAAGACTCGACAAGCTGCTAGACACAATGCTGCA
ATGAAAGCCCTCAAGCACTGCAGAATGAACCTATTCCAGAAAGATCTCCTCAGAATGGT
GAATCAGGAAAGGANNTGGATGATGACAAAGATGCAAATAAGTCTGAGATCAGCTTAGTG
TTTGAAATGCTCTGAAGCGAAATATGCCTGTCAGTTTTGAGGTTATTAAGAAAGTGGAA
CCACCACATATGAAAAGCTTTGTTACTCGAGTGTGAGTAGGAGAGTTCTCTGCAGAAAGGA
GAAGGAAATAGCAAAAACTCTCCAAGAAGCGCGCTGCGACCACCGTCTTACAGGAGCTT
AAAAAATCCACCTCTTCTGTGGTGGAAAAGCCAAAATTTTTTAAAAACGCCCT
AAAACAATAGTAAAGCCGGACCAGAATATGGCCAAGGGATGAACCTATTAGCCGCTG
GCGCAAATCAACAGGCCAAAAGGAAAAGGAGCCGATTATGTTTTGCTTTCAGAAAGA
GGAATGCCTCGAGCTCGAGAATTTGTGATGCAGGTGAAGGTAGGCAATGAAGTTGCTACA
GGAACAGGACCTAATAAAAAGATAGCAAAAAAATGCTGCAGAAGCAATGCTGTTACAA
CTTGGTTATAAAGCATCCACTAATCTTCAGGATCAACTTGAGAAGACAGGGGAAAACAAA
GGATGGAGTGGTCAAAGCCTGGGTTTCTGAACCAACAAATAACTCCAAAAGGAATT
CTTCATTTGCTCCTGATGTTTATCAAGAGATGGAAGCCAGCCGCCACAAAGTAATCTCT
GGCACTACTCTAGGCTATTTGTCAACCAAGATATGAACCAACCTTCAAGCTCTTTCTTC
AGTATATCTCCACATCGAATAGTTCAGCTACAATTGCCAGGAACTCCTTATGAATGGA
ACATCTTCTACAGCTGAAGCCATAGGTTTAAAAGGAAAGTTCTCCTACTCCCCCTTGTCT
CCAGTACAACCTTCAAAACAAGTGAATATTTAGCAAGGATTCAAGGCTTTCAGGTATGA

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Clone variation with respect to NM\_014393.2  
495 t=>n;496 g=>n

**5' Read Nucleotide Sequence:** >OriGene 5' read for NM\_014393 unedited

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NGGTCAGCATTTGTATACGACTCATATAGGCGGCCGCGNATTCGGCAGGAGGTTGGAGCC
GTCTGCAAGTGTCCCGGCAAGAAGAGGCTGCCTACCACAAGGACTTTAGCTTACTTTTT
AAAGATTGAAGAAAAAAGAAGACAGAAAAAGAAGCAAGATACACAAAGTAATT
TGAACCAAGGCTCAGAAGTTTTGGAGCCGTGAGGGATACAGCAGTTTGGTCAATATTGT
CTTAACATGCTTCAAATAAATCAGATGTTCTCAGTGCAGCTGAGTCTTGGTGAGCAGACA
TGGGAATCCGAAGGCAGCAGTATAAAGAAGGCTCAGCAGGCTGTTGCCAATAAAGCTTTG
ACTGAATCTACGCTTCCCAAACAGTTCAGAAGCCACCCAAAAGTAATGTTAACAATAAC
CCAGGCAGTATAACTCCAAGTGTGAACTGAATGGGCTTGTATGAAAAGGGGAGAGCCT
GCCATCTACAGGCCATTAGATCCAAAGCCATTCCCAAATTATAGAGCTAATTACAACCTT
CGGGGCATGTACAATCAGAGGTATCATTGCCAGTGCCTAAGATCTTTTATGTTTCAGCTC
ACTGTAGGAAATAATGAATNTTTGGGGAAGGAAAGACTCGACAAGCTGCTAGACACAAT
GCTGCAATGAAAGCCCTCAAGCACTGCAGAATGAACCTATTCCAGAAAGATCTNCTCAG
AATGGTGAATCANGAAAGGATATGGATGATGACAAAGATGCAAATAAGTCTGAGATCAGC
TTTAGTGTGTTGAAATTGCTCTGAAGCGAATATGCCTGTCAGTTTTGAGGTTATTTAAGAA
AGTGGACCACCCCTATGAAAAGCTTTGGTACTCCAATTGTCAGA

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<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_014393 unedited TGTACGCGCCGCATCTATATCGAGNTTTTTTTTTTTTTTTTTTTTTTTTTTTTCAATACACT CATATATTTTTACTTTGTAATACAATATAGCTGTCACATACAATGGCTCTATTAGGCTTA AATCAAATTGCAATGGGCAAGGAAAGCCAAAAAAGGGTTACACATTATCAATAAGCAA CAGTATCTGTTTCAGTGGGCAATAAAATAAAAAAGTTCTAACCTAAAAACACAAAAA ATTTATTGTTTTAAGTTTTAAAAATAAAAGTAACAAAAATAGGGTATAATCTGTAACAAG CTGGTCTGTAATTTCTAACTACAGTCCAATTAACATTTAAGTAATAAAAAACAATCT ACATGTTTTTCTACCAGTAAATATACCTGAAAGGGTTACCTATAAAAAAATAGGCTTTA AAACTTTTAACCAAAAAAATTTCTGCTGCGACATTATGAAAATGGGCTATGCATGTGG CCAAACTAAGTCATTTCCCGGAGATTCTGCTCACTGCTTACCTGCAGGTAGTGGCCCATC AATGACAGAGTATTTACATAAATACCAGCTCATTCAACCAAAGAAGCACAGTAATTTT TAAATCACCTGTTTATTTTATTAGTATGTAATTTCCATTACACAGATTTGGAAACCT ATTACGGTCCCATAAAAAAGATTTTATTATGTAAGCCTTAACCTTTTTAAAAAGGCCTT AACATTGCACTAATGAAGGAACGCGCACTTTACATGGTGGCTCACGCGGAAAATCTCGCA AAATTTTATCATGTGCTTTGCCAAACCTCACAATTAACCATTTAAAAATTAACCT TCTGGGCGCAAAATACCCTTTCTGTAACAACCTTCAAATCAATTATCATCCAACCTGTAG GACTCGCCCTTTTTCTCTCAAATGTGCTTCTCCCATATTTCTCATGTTTATATACATT TTATCCTCCCTCCTGTGCTGAGCTTTATCTTATCATCTCCGNATATTCCACCTCCAAA
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_014393
<b>Insert Size:</b>	4000 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_014393.1</a></u> , <u><a href="#">NP_055208.1</a></u>
<b>RefSeq Size:</b>	4058 bp
<b>RefSeq ORF:</b>	1440 bp
<b>Locus ID:</b>	27067
<b>UniProt ID:</b>	<u><a href="#">Q9NUL3</a></u>
<b>Cytogenetics:</b>	8q21.11
<b>Domains:</b>	DSRM

**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]

Transcript Variant: This variant (5) differs in the 5' and 3' UTRs and coding sequence compared to variant 1. The resulting isoform (e) has shorter and distinct N- and C-termini compared to isoform a. Variants 5 and 6 both encode the same isoform (e).