

## Product datasheet for **MR221856**

### **Stau2 (NM\_025303) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Stau2 (NM_025303) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Stau2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR221856 representing NM\_025303  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCAAACCCAAAGAGAAAACCCAGTGTGTCTGGTAATGAGTTAGCCCGTTCCATAGCATCCAAC  
 CCCAGTATAAGCTTCTGAATGAAAGCGGCCTGCTCATTGGAAGATGTTTTCGGTGCAGCTGAGTCTTGG  
 CGAGCAGACATGGGAATCCGAAGGGAGCAGTATAAAGAAGGCCCAACAAGCTGTTGCTAACAAAGCTTTG  
 ACTGAATCTACGCTTCCCAAACAGTTCAGAAACACCTAAAAGTAATGTCAATAATAACCCAGGTAGTA  
 TAACTCCAAGTGTGGAAGTGAATGGGCTCGCTATGAAAAGGGGAGAGCCTGCCATCTACAGGCCACTAGA  
 TCCAAAGCCATTCCAAATTATAGAGCTAACTACAACCTCCGGGGCATGTACAATCAGAGGTATCATTGC  
 CCAATGCCAAGATCTTTTATGTTCAAGTAACTGTAGGAAATAATGAATCTTTGGTGAAGGGAAGACTC  
 GACAAGCTGCCAGACACAATGCTGCGATGAAAGCGCTTCAAGCCCTACAGAATGAGCCAATTCAGAAAA  
 GTCTCCCAGAATGGTGAATCAGGAAAAGAAATGGATGACGATAAAGATGCAAAATAATCTGAAATAAGC  
 TTAGTGTTTTGAGATTGCGCTGAAGAGAAAATATGCCTGTCAGTTTTGAGGTTATTAAGAAAAGTGGACCAC  
 CACATATGAAGAGTTTTGTAACCTCGGGTGTCAAGTGGGAGAATTTCTGCAGAAGGAGAGGAAAATAGCAA  
 AAAACTCTCCAAGAAGCGTGCAGCAACCACTGTCTTACAGGAGCTTAAAAAACTCCACCTCTTCTGTG  
 GTAGAGAAGCCAAAACCTATTTTTTAAAAACGCCCTAAAAACAATAGTAAAGGCTGGACCCGACTATGGTC  
 AAGGAATGAACCCATTAGCCGCTGGCTCAGATCCAGCAAGCCAGAAAGGAAAAGGAGCCTGATTACAT  
 CCTACTCTCAGAACGAGGAATGCCTCGCCGTCGAGAGTTCGTAATGCAGGTCAAGGTAGGCAATGAAGTT  
 GCGACTGGAACAGGACCAATAAAAAGATAGCCAAAAAAATGCTGCTGAAGCAATGCTGTTACAGCTTG  
 GCTATAAAGCGTCCACCAGTCTTCAGGATCCGCTCGACAAGACAGGTGAAAACAAAGGATGGAGTGGTCC  
 AAAGCCTGGGTTTTCTGAACCAACAATAACACTCCAAAAGGAATCTTTCATCTTTCTCCTGATGTTTTAT  
 CAAGAGATGGAAGCTAGCCGCCACAGAGTGACCTCTGGCACAACCTAAGCTACTTATCTCCCAAAGATA  
 TGAACCAACCTTCAAGCTCTTTCTTCAAGTGTGTCTCCCTCATCAACTAGTTCAGCCACAGTTGCCAGGGA  
 ACTCCTTATGAATGGAACATCTCCTACTGCTGAAGCCATAGGTTTAAAAGGAAGTTCTCCTACTTCCCT  
 TGTTCTTCAAGTACAGCCTTCAAACAACCTGGAATATTTAGCAAGGATTCAAGGCTTTCAGGCAGCCTTAA  
 GTGCCCTGAAACAGTTTTCTGAACAAGGACTGGAATCAATTGATGGGCGAGTGAATGTTGAAAAGGGTTC  
 TCTTGAACCAAGCAAGCATCTGCGGGAGAAAGCAGACAATAACCAGGCGAAGCCGGCCTCCATCTCT  
 CAGGACTGCAAGAAATCAAAGTCGGCCATC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR221856 representing NM\_025303  
 Red=Cloning site Green=Tags(s)

MANPKEKTPVCLVNELARFHSIQPYKLLNESGPAHSMKFSVQLSLGEQTWESESSIKKAQQAVANKAL  
 TESTLKPQVQPKSNVNNPGSITPTVELNGLAMKRGEPAIYRPLDPKFPNRYRANYNFRGMYNQRYHC  
 PMPKIFYVQLTVGNNEFFGEGKTRQAARHNAAMKALQALQNEPIPEKSPQNGESGKEMDDDKDANKSEIS  
 LVFEIALKRNPVSFEVIKESGPPHMKSFVTRVSVGEFSAELEGNSKLSKKRAATTVLQELKLLPPLPV  
 VEKPKLFFKRPKTIIVKAGPDYQGMPNISRLAQIQARKEKEPDYILLSERGMPRRREFVMQVKVNEV  
 ATGTGPNKKIAKKNAAEAMLLQLGYKASTSLQDPLDKTGENKGWSGPKPGFPEPTNNTPKGILHLSPDVY  
 QEMEASRHRVTSGTTLSYLSPKDMNQPSFFFVSPSSSTSATVARELLMNGTSPTAEIIGLKGSSPTSP  
 CSSVQPSKQLEYLARIQGFQAALSALKQFSEQGLESIDGAVNVEKGSLEKQAKHLREKADNNQAKPASPIS  
 QDCKKSKSAI

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_025303

**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\\_025303.3](#), [NP\\_079579.2](#)
**RefSeq Size:** 2890 bp

**RefSeq ORF:** 1713 bp

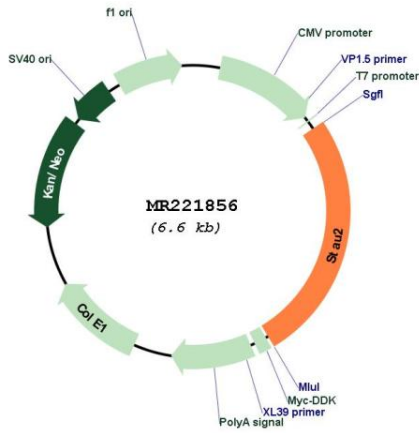
**Locus ID:** 29819

**UniProt ID:** [Q8CJ67](#)
**Cytogenetics:** 1 A3

**MW:** 63 kDa

**Gene Summary:** RNA-binding protein required for the microtubule-dependent transport of neuronal RNA from the cell body to the dendrite. As protein synthesis occurs within the dendrite, the localization of specific mRNAs to dendrites may be a prerequisite for neurite outgrowth and plasticity at sites distant from the cell body (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR221856