

Product datasheet for **RG215637**

Staufen (STAU1) (NM_017454) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Staufen (STAU1) (NM_017454) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	STAU1
Synonyms:	PPP1R150; STAU
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG215637 representing NM_017454
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAACTTGAAAAAACAATGTATAAGCCTGTTGACCCTACTCTCGGATGCAGTCCACCTATAACT
 ACAACATGAGAGGAGGTCTTATCCCCGAGGACTTTTTACCCATTTCCAGTTCCACCTTTACTTTATCA
 AGTGGAACTTTCTGTGGGAGGACAGCAATTTAATGGCAAAGGAAAAGACAAGACAGGCTGCCAAAACACGAT
 GCTGCTGCCAAAGCGTTGAGGATCTGCAGAATGAGCCCCTGCCAGAGAGGCTGGAGGTGAATGGAAGAG
 AATCCGAAGAAGAAAATCTCAATAAATCTGAAATAAGTCAAGTGTGAGATTGCACTTAAACGGAAGTT
 GCCTGTGAATTTGAGAGTGGCCCGGAGAGTGGCCACCCACATGAAGAAGTTTGTGACCAAGGTTTCG
 GTTGGGGAGTTTGTGGGGGAAGGTGAAGGGAAAAGCAAGAAGATTTCAAAGAAAAATGCCCCATAGCTG
 TTCTTGAGGAGCTGAAGAAGTTACCGCCCTGCCTGCAGTTGAACGAGTAAAGCCTAGAATCAAAAAGAA
 AACAAAACCCATAGTCAAGCCACAGACAAGCCAGAATATGGCCAGGGGATCAATCCGATTAGCCGACTG
 GCCCAGATCCAGCAGGCAAAAAAGGAGAAGGAGCCAGAGTACACGCTCCTCACAGAGCGAGGCTCCCGC
 GCCGCAGGGAGTTTGTGATGCAGGTGAAGGTGGAAACCACACTGCAGAAGGAACGGGCACCAACAAGAA
 GGTGGCCAAGCGCAATGCAGCCGAGAACATGCTGGAGATCCTTGGTTTCAAAGTCCCGCAGCGGCAGCCC
 ACCAAAACCCGACTCAAGTCAGAGGAGAAGACCCATAAAGAAACCAGGGGATGGAAGAAAAGTAACTT
 TTTTTGAACCTGGCTCTGGGGATGAAAAATGGGACTAGTAATAAAGAGGATGAGTTTCCAGGATGCCTTATCT
 AAGTCATCAGCAGCTGCCTGCTGGAATTTCTCCCATGGTCCCGAGGTCGCCAGGCTGTAGGAGTTAGT
 CAAGGACATCACACCAAGATTTTACCAGGGCAGCTCCGAATCCTGCCAAGGCCACGGAAGTCCATGA
 TAGCCCGAGAGTTGTTGTATGGGGGCACCTCGCCACAGCCGAGACCATTTTAAAGAATAACATCTCTTC
 AGGCCACGTACCCCATGGACCTCTCACGAGACCTCTGAGCAACTGGACTATCTTCCAGAGTCCAGGGA
 TTCCAGGTTGAATACAAAGACTTCCCCAAAAACAACAAGAACGAATTTGTATCTTATCAATTGCTCCT
 CTCAGCCACCTCTGATCAGCCATGGTATCGGCAAGGATGTGGAGTCTGCCATGATATGGCTGCGCTGAA
 CATCTTAAAGTTGCTGTCTGAGTTGGACCAACAAGTACAGAGATGCCAAGAACAGGAAACGGACCAATG
 TCTGTGTGTGGGAGGTGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

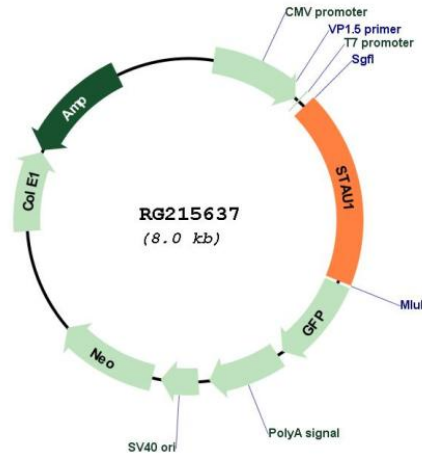
>RG215637 representing NM_017454
 Red=Cloning site Green=Tags(s)

MKLGKKPMYKVPDPSRMQSTYNYNMRGGAYPPRYFYFPVPLLYQVELSVGGQQFNGKGTQAAKHD
 AAKALRILQNEPLPERLEVNGRESEENLNKSEISQVFEIALKRNLVNFVARESGPPHMKNFVTKVS
 VGEFVGELEGKSKKISKKNAAIAVLEELKLLPPLPAVERVKPRIKKKTKPIVKPQTSPEYGGINPISRL
 AQIQQAKKEPEYTLTTERGLPRRREFVMQVKVGNHTAEGTGNKKVAKRNAENMLEILGFKVPQRQP
 TKPALKSEKTPIKKPGDGRKVTFFEPGSGDENGTSNKEDEFMPYLSHQQLPAGILPMVPEVAQAVGVS
 QGHHTKDFTRAAPNPAKATVTAMIARELLYGGTSPTAETILKNNISSGHVPHGPLTRPSEQLDYLSRVQG
 FQVEYKDFPKNNKNEFVSLINCSSQPPLISHGIGKDVESCHDMAALNILKLLSELDDQSTEMPRTGNGPM
 SVCGR

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Plasmid Map:


ACCN: NM_017454

ORF Size: 1488 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_017454.1](#), [NP_059348.1](#)

RefSeq Size: 3142 bp

RefSeq ORF: 1491 bp

Locus ID: 6780

UniProt ID: [O95793](#)

Cytogenetics: 20q13.13

Domains: DSRM

Gene Summary: Staufen 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. The human homologue of staufen encoded by STAU, in addition contains a microtubule-binding domain similar to that of microtubule-associated protein 1B, and binds tubulin. The STAU gene product has been shown to be present in the cytoplasm in association with the rough endoplasmic reticulum (RER), implicating this protein in the transport of mRNA via the microtubule network to the RER, the site of translation. [provided by RefSeq, Apr 2020]