

Product datasheet for **RG200310**

STUB1 (NM_005861) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	STUB1 (NM_005861) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	STUB1
Synonyms:	CHIP; HSPABP2; NY-CO-7; SCA48; SCAR16; SDCCAG7; UBOX1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG200310 representing NM_005861 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGGGCAAGGAGGAGAAGGAGGGCGCGCACGGCTGGGCGCTGGCGGCGGAAGCCCCGAGAAGAGCC
CGAGCGCGCAGGAGCTCAAGGAGCAGGGCAATCGTCTGTTCGTGGGCCGAAAGTACCCGGAGGCGGCGGC
CTGCTACGGCCGCGGATCACCCGGAACCCGCTGGTGGCCGTGTATTACACCAACCGGCCCTTGCTAC
CTGAAGATGCAGCAGCAGCAGCAGGCCCTGGCCGACTGCCGCGCGCCCTGGAGCTGGACGGGCAGTCTG
TGAAGGCGCACTTCTTCCTGGGGCAGTGCCAGCTGGAGATGGAGAGCTATGATGAGGCCATCGCCAATCT
GCAGCGAGCTTACAGCCTGGCCAAGGAGCAGCGGCTGAACTTCGGGGACGACATCCCCAGCGCTCTCGA
ATCGCGAAGAAGAAGCGCTGGAACAGCATTGAGGAGCGGCGCATCCACCAGGAGAGCGAGCTGCACTCCT
ACCTCTCCAGGCTCATTGCCGCGGAGCGTGAGAGGGAGCTGGAAGAGTGCCAGCGAAACCACGAGGGTGA
TGAGGACGACAGCCACGTCCGGGCCAGCAGGCCCTGCATTGAGGCCAAGCAGCACAAGTACATGGCGGAC
ATGGACGAGCTTTTTTCTCAGGTGGATGAGAAGAGGAAGAAGCGAGACATCCCCGACTACCTGTGTGGCA
AGATCAGCTTTGAGCTGATGCGGGAGCCGTGCATCACCCAGTGGCATCACCTACGACCCGAAGGACAT
CGAGGAGCACCTGCAGCGTGTGGTCAATTTGACCCCGTAGCCCGGAGCCCCCTGACCCAGGAACAGCTC
ATCCCCAATTGGCTATGAAGGAGGTTATTGACGCATTCATCTTGAGAATGGCTGGGTGGAGGACTAC

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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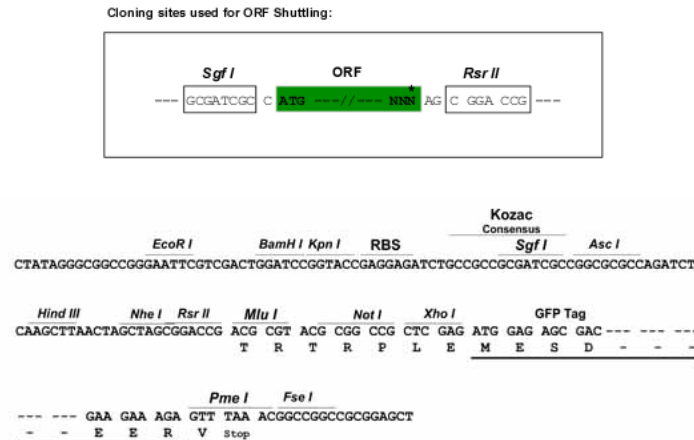
Protein Sequence: >RG200310 representing NM_005861
 Red=Cloning site Green=Tags(s)

MKGKKEKEGGARLGAGGGSPKSPSAQELKEQGNRLFVGRKYPEAAACYGRAITRNPLVAVYYTNRALCY
 LKMQQHEQALADCRRALELDGQSVKAHFFLGQCQLEMESYDEAIANLQRAYSLAKEQRLNFGDDIPSALR
 IAKKKRWNSIEERRIHQSELSYLSRLIAAERERELEECQRNHEGDEDDSHVRAQQACIEAKHDKYMAD
 MDELFSQVDEKRRKRDIPDYLCGKISFELMREPCITPSGITYDRKDIEEHLQRVGHFDPVTRSPLTQEQL
 IPNLAMKEVIDAFISENGWVEDY

SGPTRRRLE - GFP Tag - V

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_005861

ORF Size: 909 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_005861.4](#)

RefSeq Size: 1646 bp

RefSeq ORF: 912 bp

Locus ID: 10273

UniProt ID: [Q9UNE7](#)

Cytogenetics: 16p13.3

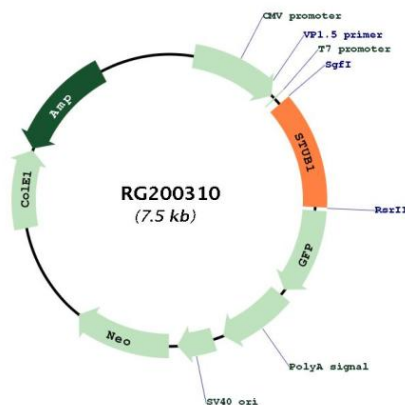
Domains: TPR, U-box

Protein Families: Druggable Genome

Protein Pathways: Ubiquitin mediated proteolysis

Gene Summary: This gene encodes a protein containing tetratricopeptide repeat and a U-box that functions as a ubiquitin ligase/cochaperone. The encoded protein binds to and ubiquitinates shock cognate 71 kDa protein (Hspa8) and DNA polymerase beta (Polb), among other targets. Mutations in this gene cause spinocerebellar ataxia, autosomal recessive 16. Alternative splicing results in multiple transcript variants. There is a pseudogene for this gene on chromosome 2. [provided by RefSeq, Jun 2014]

Product images:



Circular map for RG200310