

Product datasheet for **RC200310**

STUB1 (NM_005861) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	STUB1
Synonyms:	CHIP; HSPABP2; NY-CO-7; SCA48; SCAR16; SDCCAG7; UBOX1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC200310 representing NM_005861. Blue=ORF Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC**CGCATCGCC**
ATGAAGGGCAAGGAGGAGAAGGAGGGCGGCGCAGCGCTGGGCGCTGGCGGCGGAAGCCCCGAGAAGAGC
CCGAGCGCGCAGGAGCTCAAGGAGCAGGCAATCGTCTGTTCTGGGGCCGAAAGTACCGGAGGCGGCG
GCCTGCTACGGCCGCGCATCACCCGGAACCGCTGGTGGCCGTGATTACCAACCGGGCCTTGTC
TACCTGAAGATGCAGCAGCAGCAGCAGGCCCTGGCCGACTGCCGCGCGCCCTGGAGCTGGACGGGCAG
TCTGTGAAGGCGCACTTCTTCTGGGGCAGTGCCAGCTGGAGATGGAGAGCTATGATGAGGCCATCGCC
AATCTGCAGCGAGCTTACAGCTGGCCAAGGAGCAGCGCTGAACCTCGGGGACGACATCCCCAGCGCT
CTTCGAATCGCGAAGAAGAAGCGCTGGAACAGCATTGAGGAGCGGCGCATCCACCAGGAGAGCGAGCTG
CACTCCTACCTCTCCAGGCTCATTGCCGCGGAGCGTGAGAGGGAGCTGGAAGAGTGCCAGCGAAACCAC
GAGGGTGATGAGGACGACAGCCACGTCCGGGCCAGCAGGCTGCATTGAGGCCAAGCACGACAAGTAC
ATGGCGGACATGGACGAGCTTTTTCTCAGGTGGATGAGAAGAGGAAGAAGCGAGACATCCCCGACTAC
CTGTGTGGCAAGATCAGCTTTGAGCTGATGCGGGAGCCGTGCATCACGCCAGTGGCATCACCTACGAC
CGCAAGGACATCGAGGAGCACCTGCAGCGTGTGGGTATTTTACCCCGTGACCCGGAGCCCCCTGACC
CAGGAACAGCTCATCCCCAATTGGCTATGAAGGAGGTTATTGACGCATTATCTCTGAGAATGGCTGG
GTGGAGGACTAC
AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGAT
ATCCTGGATTACAAGGATGACGACGATAAGTTTAA



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Protein Sequence: >Peptide sequence encoded by RC200310
 Blue=ORF Red=Cloning site Green=Tag(s)

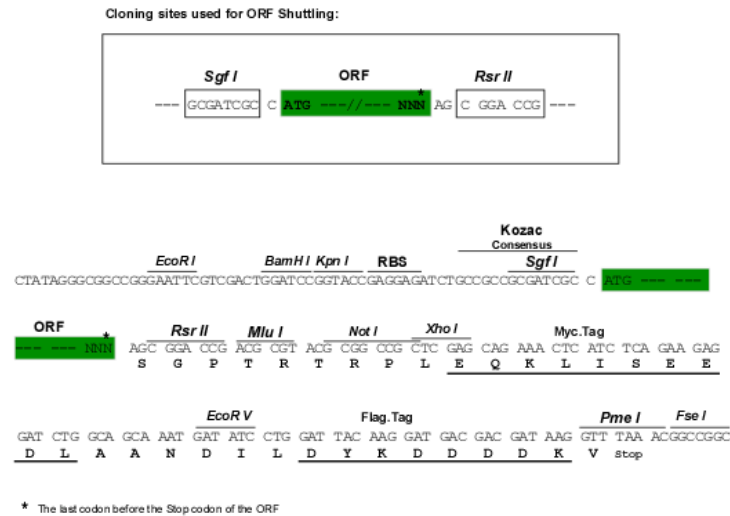
MKGKEEKEGGARLGAGGGSPEKSPSAQELKEQGNRLFVGRKYPEAAACYGRAITRNPLVAVYYTNRALC
 YLKMQQHEQALADCRRALELDGQSVKAHFFLGQCQLEMESYDEAIANLQRAYSLAKEQRLNFGDDIPSA
 LRIAKKKRWNSIEERRIHQSELSYLSRLIAERERELEECQRNHEGDEDDSHVRAQQACIEAKHDKY
 MADMELFSQVDEKRKKRDIPDYLCGKISFELMREPCITPSGITYDRKDIEEHLQRVGHFDPVTRSPLT
 QEQLIPNLAMKEVIDAFISENGWVEDY
 SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Recombinant protein using RC200310 also available, [TP300310](#)

Chromatograms: https://cdn.origene.com/chromatograms/mk6221_a09.zip

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_005861

ORF Size: 909 bp

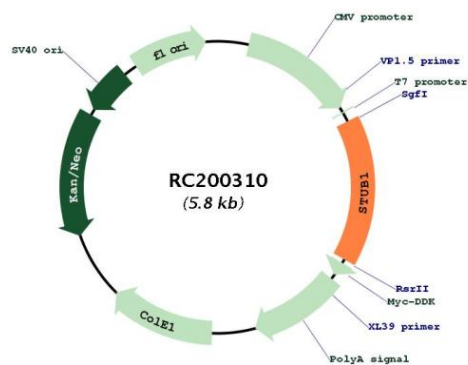
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	<ol style="list-style-type: none"> 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_005861.4</u>
RefSeq Size:	1650 bp
RefSeq ORF:	912 bp
Locus ID:	10273
UniProt ID:	<u>Q9UNE7</u>
Cytogenetics:	16p13.3
Domains:	TPR, U-box
Protein Families:	Druggable Genome
Protein Pathways:	Ubiquitin mediated proteolysis
MW:	34.9 kDa
Gene Summary:	<p>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]</p>

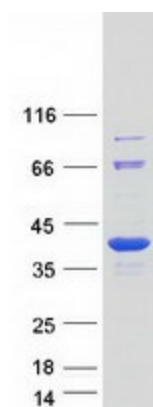
Product images:



Circular map for RC200310



Western blot validation of overexpression lysate (Cat# [LY417031]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200310 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified STUB1 protein (Cat# [TP300310]). The protein was produced from HEK293T cells transfected with STUB1 cDNA clone (Cat# RC200310) using MegaTran 2.0 (Cat# [TT210002]).