

Product datasheet for **RG234447**

USP39 (NM_001256725) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	USP39 (NM_001256725) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	USP39
Synonyms:	65K; CGI-21; HSPC332; SAD1; SNRNP65
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG234447 representing NM_001256725
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTCCGGCCGGTCTAAGCGGGAGTCTCGCGGTTCCACTCGCGGAAGCGAGAGTCTGAGTCCGGGGCA
 GCTCCGGTCGCGTCAAGCGGGAGCGAGATCGGGAGCGGGAGCCTGAGCGCGGAGCTCCCGGGCAGCCC
 TGTGCGCGTGAAGCGGGAGTTCGAGCGCGGAGCGCGCGAGGCCCGGCTTCTGTTGTCCCGTTTGTG
 CGGGTGAAGCGGGAGCGGAGGTCGATGAGGACTCGGAGCCTGAGCGGGAGGTGCGAGCAAAGAATGGCC
 GAGTGGATTCTGAGGACCGGAGGAGCCGCACTGCCCGTACCTGGACACCATTACAGGAGTGTGCTGGA
 CTTTGACTTTGAGAACTGTGTTCTATCTCCCTCACACATCAATGCTTATGCCTGTCTGGTGTGTGGC
 AAGTACTTTCAAGCGGGGTTGAAGTCTCACGCCTACATTACAGTGTCCAGTTTAGCCACCATGTTT
 TCCTCAACCTCCACACCCTCAAGTTTTACTGCCTTCCAGACAATATGAGATCATCGATTCTCATTGGA
 GGATATACGATGTGTTGAAGCCCACTTCCAAAGCAGCAAATGCAAACCTGGACAAGCAAGCCAAA
 TTGTCGGGGCATATGATGGTACCATTACCTGCCGGGATTGTGGGACTGAATAACATAAAGGCCAATG
 ATTATGCCAAGCTGTCTTTCAGGCTCTATCTAATGTTCTCCTCTCCGGAACACTTTTCTGGAAGAAGA
 CAATTATAAGAACATCAAACGCTCTCCAGGGGATATCATGTTCTTGTGGTCCAGCGTTTTGGAGAGCTG
 ATGAGAAAGCTCTGGAACCCTCGAAATTTCAAGGCACATGTGTCTCCCATGAGATGCTTCAGGCAGTTG
 TACTTTGCAGTAAGAAGACTTTTCAGATCACCAAAACAAGGAGATGGCGTTGACTTTCTGTCTTGGTTTCT
 GAATGCTCTGCACTCAGCTCTGGGGGCACAAAGAAGAAAAGAAGACTATTGTGACTGATGTTTCCAG
 GGTCCATGAGGATCTTCACTAAAAGCTTCCCATCCTGATCTGCCAGCAGAAGAAAAGAGCAGTTGC
 TCCATAATGACGAGTACCAGGAGACAATGGTGGAGTCCACTTTTATGTACCTGACGCTGGACCTTCTTAC
 TGCCCCCTCTACAAGGACGAGAAGGAGCAGTCACTATTCCCAAGTCCCACTTTCAACATCCTGGCT
 AAGTTCAATGGCCTACTGAGAAGGAATAAAGACTTACAAGGAGAACTTTCTGAAGCGTTCCAGCTTA
 CCAAGTTGCCTCCATATCTAATCTTTTGTATCAAGAGATTCATAAGAACAACCTTTTGTGAGAAGAA
 TCCAATATTGTCAATTTCCCTATTACAAATGTGGATCTGAGAGAATACTTGTCTGAAGAAGTACAAGCA
 GTACACAAGAATACCACCTATGACCTATTGCCAACATCGTGCATGACGGCAAGCCCTCCGAGGGCTCCT
 ACCGGATCCAGTCTTATCATGAGGACAGGCAAATGGTATGAATTACAAGACCTCCAGGTGACTGACAT
 CCTTCCCAGATGATCACACTGTCAGAGGCTTACATTAGATTTGGAAGAGGCGAGATAATGATGAAACC
 AACCAGCAGGGGGCT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG234447 representing NM_001256725
 Red=Cloning site Green=Tags(s)

MSGRSKRESRGSTRGKRESESRGSSGRVKRERDREREPEAASSRGSPVRVKREFEPASAREAPASVVPFV
 RVKREVEVDESEPEREVRKNGRVDSEDRSRHCPYLDITNRSVLDVDFEKLCSISLSHINAYACLVCG
 KYFQGRGLKSHAYIHSVQFHHVFLNLHTLKFYCLPDNYEIIDSSLEDITYVLKPTFTKQQIANLDKQAK
 LSRAVDGTTYLPGIVGLNNIKANDYANAVLQALSNVPLRNYFLEEDNYKNIKRPDGDIMFLLVQRFGEL
 MRKLWNPFRKFAHVSPEMLQAVVLCSSKTFQITKQGDGVDFLSWFLNALHSALGGTKKKKKTIVTDVVFQ
 GSMRIFTKKLPHPDLPAAEKEQLLHNDEYQETMVESTFMYLTLDLPTAPLYKDEKEQLIIPQVPLFNILA
 KFNKITEKEYKTYKENFLKRFQLTKLPPYLIFCIKRFKNNFFVEKNPTIVNFPITNVDLREYLSEEVQA
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 NQQGA

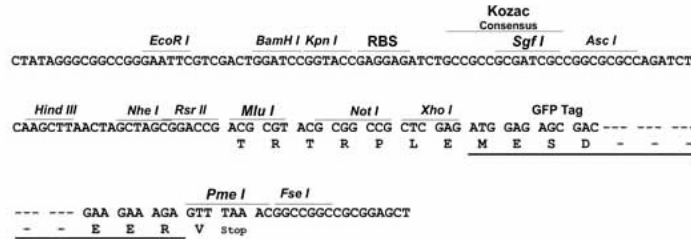
TRTRPLE – GFP Tag – V

Restriction Sites:

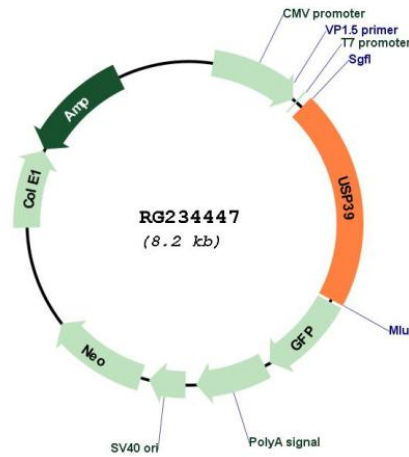
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_001256725
 ORF Size: 1695 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.
RefSeq:	NM_001256725.2
RefSeq Size:	2135 bp
RefSeq ORF:	1698 bp
Locus ID:	10713
UniProt ID:	Q53GS9
Cytogenetics:	2p11.2
Protein Families:	Protease
Protein Pathways:	Spliceosome
Gene Summary:	Plays a role in pre-mRNA splicing as a component of the U4/U6-U5 tri-snRNP, one of the building blocks of the precatalytic spliceosome (PubMed:11350945, PubMed:26912367). Regulates AURKB mRNA levels, and thereby plays a role in cytokinesis and in the spindle checkpoint. Does not have ubiquitin-specific peptidase activity (PubMed:18728397). [UniProtKB/Swiss-Prot Function]