

Product datasheet for **RG232837**

USP39 (NM_001256727) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	USP39 (NM_001256727) 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:

>RG232837 representing NM_001256727
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTTACGGCGGTGCCTTCCCATCTTTTTCTGCAAAGAATGGCCGAGTGGATTCTGAGGACCGGAGGA
 GCCGCCACTGCCGTACCTGGACACCATTAACAGGAGTGTGCTGGACTTTGACTTTGAGAAACTGTGTTT
 TATCTCCCTCTCACACATCAATGCTTATGCCTGTCTGGTGTGGCAAGTACTTTCAAGGCCGGGTTTG
 AAGTCTCACGCCTACATTCACAGTGTCCAGTTTAGCCACCATGTTTTCTCAACCTCCACACCCTCAAGT
 TTTACTGCCTTCCAGACAACTAGAGATCATCGATTCTCATTGGAGGATATCACGTATGTGTTGAAGCC
 CACTTTCAAAAGCAGCAAATTGCAAATTGGACAAGCAAGCAAATTGCCCGGCATATGATGGTACC
 ACTTACCTGCCGGTATTGTGGGACTGAATAACATAAAGGCCAATGATTATGCCAACGCTGTCCTCAGG
 CTCTATCTAATGTTCTCTCTCCGGAAGTACTTTCTGGAAGAAGACAATTATAAGAACATCAAACGTC
 TCCAGGGGATATCATGTTCTTGTGGTCCAGCGTTTTGGAGAGCTGATGAGAAAGCTCTGGAACCTCGA
 AATTTCAAGGCACATGTGTCTCCCATGAGATGCTTCAGGCGATTGTACTTTGCAGTAAGAAGACTTTTC
 AGATCACCAAACAAGGAGATGGCGTTGACTTTCTGTCTTGGTTTCTGAATGCTCTGCACTCAGCTCTGGG
 GGGCACAAGAAGAAAAAGAAGACTATTGTGACTGATGTTTTCCAGGGTCCATGAGGATCTTACTAAA
 AAGCTTCCCCATCCTGATCTGCCAGCAGAAGAAAAAGAGCAGTTGCTCCATAATGACGAGTACCAGGAGA
 CAATGGTGGAGTCCACTTTATGTACCTGACGCTGGACCTTCTACTGCCCCCTCTACAAGGACGAGAA
 GGAGCAGCTCATCTCCCAAGTCCACTTCAACATCCTGGTAAGTTCAATGGCATCACTGAGAAG
 GAATATAAGACTTACAAGGAGAAGTCTTGAAGCGCTTCCAGCTTACCAAGTTGCCTCCATCTAATCT
 TTTGTACAAGAGATTCACCTAAGAACAAGTCTTGTGAGAAGAATCCAAGTCAATTTCCCTAT
 TACAAATGTGGATCTGAGAGAATACTTGTCTGAAGAAGTACAAGCAGTACACAAGAATACCACCTATGAC
 CTATTGCCAACATCGTGCATGACGCAAGCCCTCCGAGGGCTCCTACCGGATCCACGTGCTTCATCATG
 GGACAGGCAAATGGTATGAATTACAAGACCTCCAGGTGACTGACATCCTTCCCAGATGATCACACTGTC
 AGAGGCTTACATTCAGATTTGGAAGAGGCGAGATAATGATGAAACCAACCAGCAGGGGGCT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG232837 representing NM_001256727
 Red=Cloning site Green=Tags(s)

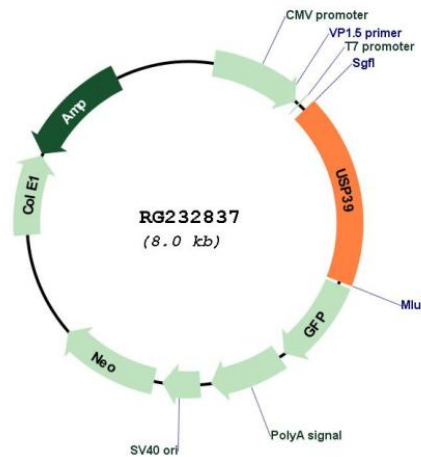
MLTAVPSHLFSAKNGRVDSEDRSRHCPYLDINRSVLDFDFEKLCSISLSHINAYACLVCCKYFQGRGL
 KSHAYIHSVQFHHVFLNLHTLKFYCLPDNYEIIDSSLEDITYVLKPTFTKQQIANLDKQAKLSRAYDGT
 TYLPGIIVGLNNIKANDYANAVLQALSNVPLRNYFLEEDNYKNIKRPPGDIMFLLVQRFGELMRKLWNP
 NFKAHVSPHEMLQAVVLCSSKTFQITKQGDGVDFLSWFLNALHSALGGTKKKKTIIVTDFVQGSRIFTK
 KLPHPDLPAEKEQLLNDEYQETMVESTFMYLTLDLPTAPLYKDEKEQLIIPQVPLFNILAKFNGITEK
 EYKTYKENFLKRFQLTKLPPYLIFCIKRFKTNFFVEKNPTIVNFPITNVDLREYLSEEVAHVHKNNTYD
 LIANIVHDGKPSSEGSYRIHVLHHGTGKWEYLQDLQVTDILPQMITLSEAYIQIWKRRDNDNENQQA

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Plasmid Map:


ACCN: NM_001256727

ORF Size: 1461 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:	<u>NM_001256727.1, NP_001243656.1</u>
RefSeq Size:	2183 bp
RefSeq ORF:	1464 bp
Locus ID:	10713
UniProt ID:	<u>Q53GS9</u>
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 pre-catalytic 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]