

Product datasheet for **RG227139**

VPS37A (NM_001145152) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: VPS37A (NM_001145152) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: VPS37A
Synonyms: HCRP1; PQBP2; SPG53
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG227139 representing NM_001145152
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAGCTGGCTTTTTCCCTGACCAAGAGCGCCTCCTCCTCCGCGGCTGGGTCCCCGGTGGCCTCACCA
 GCCTCCAGCAGCAGAAGCAGCGCCTGATCGAGTCCCTCCGGAACCTCACACTCCAGATTGCTTCTCCACA
 GTTTCCTCAGGAAAACCAGTGATCAGTGTTCATCCACCAATACGACATCACTTAATGGATAACAAGGA
 GTGTATGTTACCTCTCCATTAGTAAACAATTTACAATGCACTCAGATCTTGAAAAATTATTCAGAGTC
 TGTGGATGAGTTTTGGAAGAATCCTCCAGTTTTAGCTCCTACTTCAACAGCATTTCCTTATCTATACAG
 TAACCCAAGTGGGATGTCTCCTTATGCTTCTCAGGGTTTTCCATTCTTCTCCATATCCTCCACAAGAA
 GCAAACAGGAGTACACTTCTTTATCTGTTGCTGACACTGTTTCTTCAACAACAAGTCATACCACAG
 CCAAGCCTGCCGCTCCTTCATTTGGTGTCTTTCAAATCTGCCATTACCCATTCCACAGTGGATGCTTC
 AATACCGACAAGCCAAAATGGTTTTGGGTACAAGATGCCAGATGTCCCTGATGCATTTCCAGAACTCTCA
 GAACTAAGTGTGTCACACTCACAGATATGAATGAACAAGAGGAGGTATTACTAGAACAGTTTCTGACTT
 TGCCTCACTAAAACAAATTTACCGACAAAGATGACTTAGTAAAAAGTATTGAGGAAGTAGCAAGAAA
 AAATCTCCTTTTGAGCCAGCTTGAAGCCAAAAGACAAACTGTTTTAGATAAGTATGAATTACTTACA
 CAGATGAAGTCCACTTTGAAAAGAAGATGCAAAGGCAGCATGAACTTAGTGAGAGCTGTAGTGCAAGTG
 CCTTCAGGCAAGATTGAAAGTAGCTGCACATGAAGCTGAGGAAGAATCTGATAATATTGCAAGAAGACTT
 CTTGGAGGAAAAGATGGAATAGATGATTTTCTCAGTAGCTTCATGGAAAAGAGAACAATTTGCCACTGT
 AGAAGAGCCAAGGAAGAGAACTTCAGCAGGCGATAGCAATGCACAGCCAATTTTCATGCTCCACTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG227139 representing NM_001145152
 Red=Cloning site Green=Tags(s)

MSWLFPLTKSASSAAGSPGGLTSLQQKQRLIESLRNHSRLLPPQFPQEKPVISVYPPIRHHLMDKQG
 VYVTSPLVNNFTMHSDLGKIIQSLLEDFWKNPPVLAPTSTAFPYLYSNPSGMSPYASQGFPLPPYPPQE
 ANRSITSLSVADTVSSSTTSHTTAKPAAPSFVLSNLPLIPTVDASIPTSONGFYKMPDVPDAFPELS
 ELSVSQLTDMNEQEEVLLLEQFLTLPQLKQIITDKDDLKVSIEELARKNLLLEPSLEAKRQTVLDKYELLT
 QMKSTFEKKMQRQHELSESCSASALQARLKVAHEAEEESDNIAEDFLEGMKMEIDDFLSSFMEKRTICHC
 RRAKEEKLQQAAMHSQFHAPL

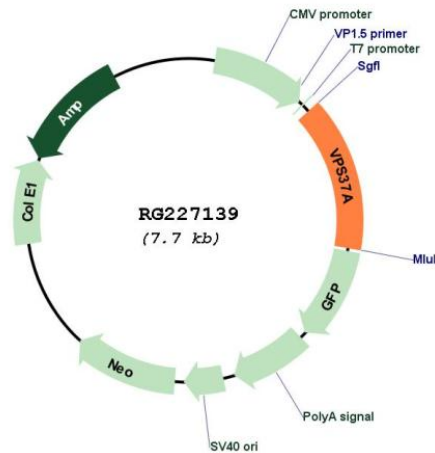
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001145152

| | |
|-------------------------------|---|
| ORF Size: | 1116 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_001145152.1 , NP_001138624.1 |
| RefSeq Size: | 4510 bp |
| RefSeq ORF: | 1119 bp |
| Locus ID: | 137492 |
| UniProt ID: | Q8NEZ2 |
| Cytogenetics: | 8p22 |
| Protein Pathways: | Endocytosis |
| Gene Summary: | This gene belongs to the VPS37 family, and encodes a component of the ESCRT-I (endosomal sorting complex required for transport I) protein complex, required for the sorting of ubiquitinated transmembrane proteins into internal vesicles of multivesicular bodies. Expression of this gene is downregulated in hepatocellular carcinoma, and mutations in this gene are associated with autosomal recessive spastic paraplegia-53. A related pseudogene has been identified on chromosome 5. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Dec 2012] |