

Product datasheet for **RG209716**

VPS37A (NM_152415) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: VPS37A (NM_152415) 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: >RG209716 representing NM_152415
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAGCTGGCTTTTTCCCTGACCAAGAGCGCCTCCTCCTCCGCGGCTGGGTCCCCGGTGGCCTCACCA
 GCCTCCAGCAGCAGAAGCAGCGCCTGATCGAGTCCCTCCGGAACACACTCCAGTATAGCCGAAATACA
 GAAAGATGTGGAATACAGATTGCCATTCACCATAAACACCTGACAATTAACATTAATACTGCTTCT
 CCACAGTTTCTCAGGAAAACAGTGATCAGTGTTCACCAATACGACATCACTTAATGGATAAAC
 AAGGAGTGTATGTACCTCTCCATTAGTAAACAATTTACAATGCACTCAGATCTTGAAAAATTATTCA
 GAGTCTGTTGGATGAGTTTTGGAAGAATCCTCCAGTTTTAGCTCCTACTTCAACAGCATTTCCTTATCTA
 TACAGTAACCCAAGTGGGATGTCTCCTTATGCTTCTCAGGGTTTTCCATTTCTTCTCCATATCCTCCAC
 AAGAAGCAAACAGGAGTATCACTTCTTTATCTGTTGCTGACACTGTTTCTTCAACAACAAGTCATAC
 CACAGCCAAGCCTGCCGCTCCTTCATTTGGTGTCTTTCAAATCTGCCATTACCCATTCCCACAGTGGAT
 GCTTCAATACCGACAAGCCAAAATGTTTTGGGTACAAGATGCCAGATGTCCCTGATGCATTTCCAGAAC
 TCTCAGAACTAAGTGTGCACAACCTCACAGATATGAATGAACAAGAGGAGGTATTACTAGAACAGTTTCT
 GACTTTGCCTCACTAAAACAAATATTACCGACAAGATGACTTAGTAAAAAGTATTGAGGAACAGCA
 AGAAAAAATCTCTTTTGGAGCCAGCTTGAAGCCAAAAGACAACTGTTTTAGATAAGTATGAATTAC
 TTACACAGATGAAGTCCACTTTGAAAAGAAGATGCAAAGGCAGCATGAACTTAGTGAGATCTGTAGTGC
 AAGTGCCTTTCAGGCAAGATTGAAAAGTAGCTGCACATGAAGCTGAGGAAGAATCTGATAATATTGCAGAA
 GATTTCTTGGAGGAAAGATGAAAATAGATGATTTTCTCAGTAGCTTCATGGAAAAGAGAACAATTTGCC
 ACTGTAGAAGAGCCAAGGAAGAGAACTTCAGCAGGCGATAGCAATGCACAGCCAATTTTCATGCTCCACT
 A

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

Protein Sequence: >RG209716 representing NM_152415
 Red=Cloning site Green=Tags(s)

MSWLFP LTKSASSAAGSPGGLTSLQQKQRLIESLRNSHSSIAEIQKDVEYRLPFTINNL TININILLP
 PQFPQEKPVISVYPIRHHMLMDKQGVYVTSPLVNNFTMHSDLGKIIQSLLEDFWKNPPVLAPTSTAFFPYL
 YSNPSGMSPYASQGFPLPPYPPQEANRSITLSVADTVSSSTTSHTTAKPAAPSFVLSNLPLPIPTVD
 ASIPTSQNGFGYKMPDVPDAFPELSELVSQLTDMNEQEEVLLLEQFLTLPLKQIITDKDDLKVSIEELA
 RKNLLLEPSLEAKRQTVLDKYELLTQMKSTFEKKMQRQHELSEICASALQARLKVA AHEAEEESDNIAE
 DFLEGM EIDDFLSSFM EKRTICHCRRAKEEKLQQA IAMHSQFHAPL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_152415

ORF Size: 1191 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_152415.1](#), [NP_689628.1](#)

RefSeq Size: 2020 bp

RefSeq ORF: 1194 bp

Locus ID: 137492

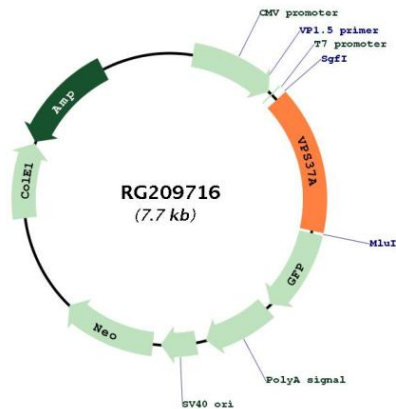
UniProt ID: [Q8NEZ2](#)

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]

Product images:



Circular map for RG209716