

Product datasheet for **SC322101**

VPS37A (NM_152415) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	VPS37A (NM_152415) Human Untagged Clone
Tag:	Tag Free
Symbol:	VPS37A
Synonyms:	HCRP1; PQBP2; SPG53
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for SC322101
TGTGGTCGGTTTTGGGCGTCTGGGCCGTGAAGGTGGGACCTCCTGTTCCGGGCCGCAAGTT
TCCCTCTCCAGCCGCCCGCGTTTCGTAGCATGTCCCCAGAAGTCCGGGAGCGCAGGCAG
GACAGGCTTAGAGAAGACGCGGTCCCCAGCGCTTGGGCCACGGACGTCCCACCCGCTCC
TCTGTCTGGAGAACC GCCGGCCGAGCCACTGGGAGAAGCAGGCCAGAGCCTTCCAGG
GCCTCCGGCCCGTGGACCCGAGGAGGATGAGCTGGCTTTTTCCCTGACCAAGAGCGCCT
CCTCCTCCGGCGGTGGTCCCCCGTGGCCTCACCAGCCTCCAGCAGCAGAAGCAGCGCC
TGATCGAGTCCCTCCGGAATCACACTCCAGTATAGCCGAAATACAGAAAGATGTGGAAT
ACAGATTGCCATTACCATAAAACAACCTGACAATTAACATTAATACTGCTTCCCTCCAC
AGTTTCTCAGGAAAAACCAGTGATCAGTGTATCCACCAATACGACATCACTTAATGG
ATAAAACAAGGAGTGATGTTACCTCTCCATTAGTAAACAATTTACAATGCACTCAGATC
TTGAAAAATTATTCAGAGTCTGTTGGATGAGTTTTGGAAGAATCCTCCAGTTTTAGCTC
CTACTTCAACAGCATTTCCTTATCTATACAGTAACCAAGTGGGATGTCTCCTTATGCTT
CTCAGGGTTTTCCATTTCTTCTCCATATCCTCCACAAGAAGCAAACAGGAGTATCACTT
CTTTATCTGTTGCTGACTGTTTTCTTCTCAACAACAAGTCATACCACAGCCAAGCCTG
CCGCTCCTTCAATTTGGTGTCTTTCAAATCTGCCATTACCCATTCCACAGTGGATGCTT
CAATACCGACAAGCCAAAATGGTTTTGGGTACAAGATGCCAGATGTCCCTGATGCATTT
CAGAAGCTCAGAAGTGTGTCAACTCACAGATATGAATGAACAAGAGGAGGAT
TACTAGAACAGTTTCTGACTTTGCCTCAACTAAAACAAATTAACCGACAAAGATGACT
TAGTAAAAAGTATTGAGGAAGTACAGAAAAAATCTCCTTTGGAGCCAGCTTGAAG
CCAAAAGACAACTGTTTTAGATAAGTATGAATTACTTACACAGATGAAGTCCACTTTG
AAAAGAAGATGCAAAGGCAGCATGAAGTGTGAGATCTGTAGTGAAGTGCCTTCCAGG
CAAGATTGAAAGTGTGACATGAAGCTGAGGAAGAATCTGATAATATTGCAGAAGATT
TCTTGGAGGAAAGATGGAATAGATGATTTTCTCAGTAGCTTCAAGAAAGAGAACA
TTTGCCACTGTAGAAGAGCCAAGGAAGAAACTTCAGCAGGCGATAGCAATGCACAGCC
AATTTCTGCTCCACTATAGATTTCTGGAAACATGAAGTCCAAAGAGAGGAATGGGAC
ACAAAACCAAACTGTTTTATATTTATGGTTTGCAAAGTGGCATTTCATCAGTGGCTAA
ATTCACAGATATCCTATATAGATTGTATACAGAAGTGTGACTGATTTGTACCGATTAGA
ATGATTGCTATGATCTTTGAGAAATTTTCTGCACTATTTGCACTGAAATGTTTTATTTAT
TGTTGATAAATTGTATCATATTTAAGTTCCACTGCTGTTCTTACCTTGATTAATATGC
CTATGCATGACTTTTAGCTAGTTTTTAATATTTATAAACTTCATTTAAATTTGTATT
TTTTAAGTTGAAGTCCATTTCTTATCAAGGATGGATTTAGATTTTTTCTCTTAACC
TTTTTTCAAAACTATTTTCAACTGTGAGGAAACCTTATTTTTCTTTGTTGGATAA
AACTTTCAAAAGCAATTTAAGATATTCATAGTGTAGGAAACCAAACTGCCTATGTG
CAATCTCACAAAAGAACTTTTAATACCTACAATAAATCAAAAGAATAAACCAAAAAAAA
AAAAAAA

Restriction Sites: Please inquire

ACCN: NM_152415

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.