

## Product datasheet for **SC325838**

### VPS37A (NM\_001145152) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	VPS37A (NM_001145152) Human Untagged Clone
Tag:	Tag Free
Symbol:	VPS37A
Synonyms:	HCRP1; PQBP2; SPG53
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC325838 representing NM_001145152. Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG  
 GATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**  
 ATGAGCTGGCTTTTCCCTGACCAAGAGCGCCTCCTCCTCCGCGGCTGGGTCCCCGGTGGCCTCACC  
 AGCCTCCAGCAGCAGAAGCAGCGCTGATCGAGTCCCTCCGGAACCTCACACTCCAGATTGCTTCTCCA  
 CAGTTTCTCAGGAAAAACAGTGATCAGTGTTCACCAATACGACATCACTTAATGGATAAACAA  
 GGAGTGTATGTTACCTCTCCATTAGTAACAATTTACAATGCACTCAGATCTTGAAAAATTATTCAG  
 AGTCTGTTGGATGAGTTTGAAGAATCCTCCAGTTTCTCTACTTCAACAGCATTTCTTATCTA  
 TACAGTAACCAAGTGGATGTCTCCTTATGCTTCTCAGGGTTTCCATTCTTCTCCATATCCTCCA  
 CAAGAAGCAAACAGGAGTATCACTTCTTATCTGTTGCTGACACTGTTTCTTCTCAACAACAAGTCAT  
 ACCACAGCCAAGCCTGCCGCTCCTTCATTTGGTGTCTTTCAAATCTGCCATTACCCATTCACAGTG  
 GATGCTTCAATACCGACAAGCAAAATGGTTTGGGTACAAGATGCCAGATGTCCCTGATGCATTCCA  
 GAAGTCTCAGAACTAAGTGTGCACAACCTCACAGATATGAATGAACAAGAGGAGTATTACTAGAACAG  
 TTTCTGACTTTGCCTCACTAAAACAAATTATTACCGACAAGATGACTTAGTAAAAAGTATTGAGGAA  
 CTAGCAAGAAAAATCTCCTTTGGAGCCAGCTTGAAGCAAAAGACAACTGTTTATAGATAAGTAT  
 GAATTACTTACACAGATGAAGTCCACTTTCGAAAAGAAGATGCAAAGGCAGCATGAAGTATGAGAGC  
 TGTAGTGAAGTGCCTTCAGGCAAGATTGAAAGTAGTGACATGAAGCTGAGGAAGAATCTGATAAT  
 ATTGCAGAAAGACTTCTTGAGGGAAAGATGGAATAGATGATTTTCTCAGTAGCTTCATGGAAAAGAGA  
 ACAATTTGCCACTGTAGAAGAGCCAAGGAAGAGAACTTCAGCAGGCGATAGCAATGCACAGCCAATTT  
 CATGCTCCACT**ATAG**  
**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT  
 TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites: SgfI-MluI


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<b>ACCN:</b>	NM_001145152
<b>Insert Size:</b>	1119 bp
<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	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.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_001145152.1</a></u>
<b>RefSeq Size:</b>	4510 bp
<b>RefSeq ORF:</b>	1119 bp
<b>Locus ID:</b>	137492
<b>UniProt ID:</b>	<u><a href="#">Q8NEZ2</a></u>
<b>Cytogenetics:</b>	8p22
<b>Protein Pathways:</b>	Endocytosis
<b>MW:</b>	41.5 kDa
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (2) lacks an exon in the coding region compared to variant 1. The encoded isoform (2) is shorter but has the same N- and C-termini compared to isoform 1.</p> <p>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.</p>