

Product datasheet for RC227139

VPS37A (NM_001145152) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	VPS37A (NM_001145152) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	VPS37A
Synonyms:	HCRP1; PQBP2; SPG53
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC227139 representing NM_001145152 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGCTGGCTTTTTCCCTGACCAAGAGCGCCTCCTCCTCCGCGGCTGGGTCCCCGGTGGCCTCACCA
GCCTCCAGCAGCAGAAGCAGCGCCTGATCGAGTCCCTCCGGAACCTCACACTCCAGATTGCTTCTCCACA
GTTTCTCAGGAAAACCAGTGATCAGTGTATCCACCAATACGACATCACTTAATGGATAAACAAGGA
GTGTATGTTACCTCTCCATTAGTAAACAATTTACAATGCACTCAGATCTTGAAAAATTATTCAGAGTC
TGTTGGATGAGTTTTGGAAGAATCCTCCAGTTTTAGCTCCTACTTCAACAGCATTTCCTTATCTATACAG
TAACCCAAGTGGGATGTCTCCTTATGCTTCTCAGGTTTTCCATTTCTTCTCCATATCCTCCACAAGAA
GCAAACAGGAGTACACTTCTTTATCTGTTGCTGACACTGTTTCTTCAACAACAAGTCATACCACAG
CCAAGCCTGCCGCTCCTTCATTTGGTGTCTTTCAAATCTGCCATTACCCATTCCACAGTGGATGCTTC
AATACCGACAAGCCAAAATGGTTTTGGGTACAAGATGCCAGATGTCCCTGATGCATTTCCAGAACTCTCA
GAACTAAGTGTGTCACACTCACAGATATGAATGAACAAGAGGAGGTATTACTAGAACAGTTTCTGACTT
TGCCTCACTAAAACAAATTATTACCGACAAAGATGACTTAGTAAAAAGTATTGAGGAAGTGAAGAAA
AAATCTCCTTTTGAGCCAGCTTGAAGCCAAAAGACAACTGTTTTAGATAAGTATGAATTACTTACA
CAGATGAAGTCCACTTTGAAAAGAAGATGCAAAGGCAGCATGAACCTAGTGAAGCTGTAGTGAAGTG
CCCTTCAGGCAAGATTGAAAGTAGCTGCACATGAAGCTGAGGAAGAATCTGATAATATTGCAAGACTT
CTTGAGGAAAAGATGAAAATAGATGATTTTCTCAGTAGCTTCATGAAAAGAGAACAATTTGCCACTGT
AGAAGAGCCAAGGAAGAGAACTTCAGCAGGCGATAGCAATGCACAGCCAATTTTCATGCTCCACTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >RC227139 representing NM_001145152
Red=Cloning site Green=Tags(s)

MSWLFPLTKSASSAAGSPGGLTSLQQKQRLIESLRNSHSRLLPPQFPQEKPVISVYPPIRHHLMDKQG
 VYVTSPLVNNFTMHSDLGKIIQSLLEDFWKNPPVLAPTSTAFPYLYSNPSGMSPYASQGFPLPPYPPQE
 ANRSITSLSVADTVSSSTTSHTTAKPAAPSGVLSNLPPIPTVDASIPTSONGFYKMPDVPDAFPELS
 ELSVSQLTDMNEQEEVLLLEQFLTLPQLKQIITDKDDLKVSIEELARKNLLLEPSLEAKRQTVLDKYELLT
 QMKSTFEKKMQRQHELSESCASALQARLKVAHEAEEESDNIAEDFLEGKMEIDDFLSSFMEKRITICH
 RRAKEEKLQQAIAMHSQFHAPL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8032_f01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

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:

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 ORF: 1119 bp

Locus ID: 137492

UniProt ID: [Q8NEZ2](#)

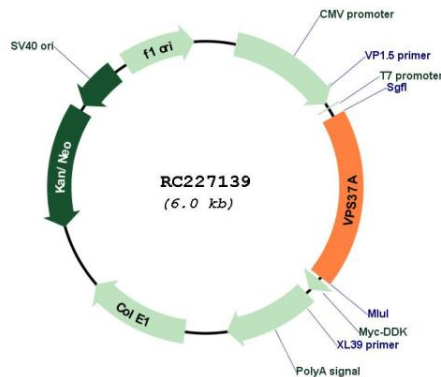
Cytogenetics: 8p22

Protein Pathways: Endocytosis

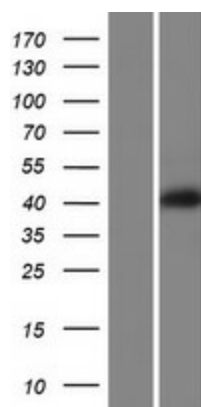
MW: 41.3 kDa

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 RC227139



Western blot validation of overexpression lysate (Cat# [LY428727]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC227139 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).