

Product datasheet for RC211427

VPS37D (NM_001077621) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	VPS37D (NM_001077621) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	VPS37D
Synonyms:	WBSCR24
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC211427 representing NM_001077621 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTACCGGGCCCGGGCGCGGGCGGGGCGGGAGCCCGGCAGCCCGGGCGCTTTGGGATCCTCAGCA
CCGGGCAGCTCCGGGACCTGCTTCAGGATGAGCCAAGCTGGACCGGATCGTGCGGCTCAGCAGGAAGTT
CCAGGGCCTGCAGCTGGAGCGTGAGGCCTGCCTGGCCTCAAACACGCGCTGGCCAAGGAGAACCTGGCC
CTGCGGCCCGCCTGGAGATGGCCGGGCTGCCCTGGCCATCAAATACCAGGAGCTTCGTGAGGTGGCCG
AGAAGTGCAGCAAGCTGCAGCGACTGGAGGAAAGCATGCATCGCTGGAGTCCCCTGCGCGCTGGG
CTGGCTGCAGGCTGAGCTAGAAGAGGCGGAGCAGGAGGCAGAGGAGCAGATGGAGCAGCTGCTGCTCGGG
GAGCAAAGCCTGGAGGCCTTCCTGCCTGCCTCCAGCGTGGCCGCGCCCTGGCCACCTGAGGCGGACGC
AGGAGAGAAAGCTGCAGGAGCTGCTGCGGCGTCCGGAGCGTTCTGCCAGCCGGCCCGCCACCTCGGCTGC
TGATCCCCCAAATCCTTCCCGGCTGCAGCTGTCTGCCACTGGGGCCCGCCGGGGGCCACAGCAGTG
CCCCGGAGCCTGCCCGCTTGGACTCCCGCCAGTGCCCCACTGAAGGGCTCCCCGGGTGCCCGCTCG
GCCCGGCCCGCTGTGAGCCCTCGGCCCTCGCAGCCAGAGCCCCCCACCGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC211427 representing NM_001077621
Red=Cloning site Green=Tags(s)

MYRARAARAGPEPGSPGRFGILSTGQLRDLLQDEPKLDRIVRLSRKFQGLQLEREACLASNYALAKENLA
 LRPRLMGRAALAIKYQELREVAENCADKLQRLEESMHRWSPHCALGWLQAELEAEQEAEQMEQLLLG
 EQSLEAFLLPAFQGRALAHLRRTQAEKLQELLRRRERSAQPAPTSAADPPKSFPAAVLPTGAARGPPAV
 PRSLPPLDSRPVPLKGGSPGCPLGPAPLLSPRPSQPEPPHR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8025_h02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001077621

ORF Size: 753 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_001077621.2](#)

RefSeq Size: 1609 bp

RefSeq ORF: 756 bp

Locus ID: 155382

UniProt ID: [Q86XT2](#)

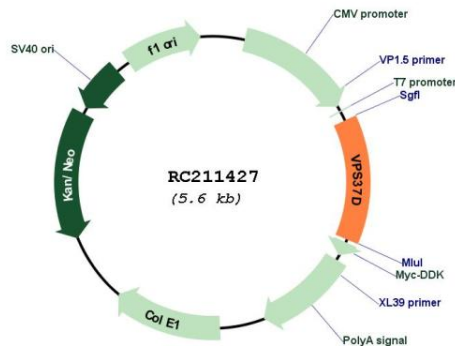
Cytogenetics: 7q11.23

Protein Pathways: Endocytosis

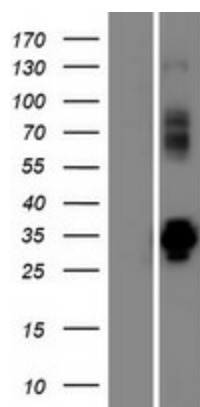
MW: 27.5 kDa

Gene Summary: Component of the ESCRT-I complex, a regulator of vesicular trafficking process. Required for the sorting of endocytic ubiquitinated cargos into multivesicular bodies. May be involved in cell growth and differentiation.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC211427



Western blot validation of overexpression lysate (Cat# [LY421464]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC211427 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).