

Product datasheet for **RC210597**

VPS35 (NM_018206) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	VPS35 (NM_018206) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	VPS35
Synonyms:	MEM3; PARK17
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide
Sequence:

>RC210597 ORF sequence

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCCATGCCTACAACACAGCAGTCCCCTCAGGATGAGCAGGAAAAGCTCTTGGATGAAGCCATACAGGCTGTGA
AGGTCCAGTCATTCCAAATGAAGAGATGCCTGGACAAAAACAAGCTTATGGATGCCTAAAAACATGCCTC
TAATATGCTTGGTGAACCCGGACTTCTATGTTATCACCAAAGAGTTACTATGAACCTTTATATGGCCATT
TCTGATGAACTGCACTACTTGGAGGTCTACCTGACAGATGAGTTTGCTAAAGGAAGGAAAGTGCCAGATC
TCTACGAACTTGTACAGTATGCTGGAACATTATCCCAAGGCTTTACCTTTTGATCACAGTTGGAGTTGT
ATATGTCAAGTCATTTCTCAGTCCAGGAAGGATATTTTGAAAGATTTGGTAGAAATGTGCCGTGGTGTG
CAACATCCCTTGAGGGTCTGTTTCTTCGAAATACCTTCTTCAGTGTACCAGAAATATCTTACCTGATG
AAGGAGAGCCAACAGATGAAGAAACAACGGTGACATCAGTGATTCCATGGATTTGTACTGCTCAACTT
TGCAGAAATGAACAAGCTCTGGGTGCGAATGCAGCATCAGGGACATAGCCGAGATAGAGAAAAAGAGAA
CGAGAAAGACAAGAAGTGAAGATTTTAGTGGGAACAAATTTGGTGCCTCAGTCAGTTGGAAGGTGTA
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GGCTCAAGAAATCTCATGGAGTGATTTTACAGTCTTCCCTGATGAATTTACCTCCAGACTTTGAAAT
CCTTTTCTCGGGCTGTGCTGAGTTACACCAGAATGTAATGTGAAGAACATAATCATTGCTTTAATTG
ATAGATTAGCTTTATTTGCTCACCGTGAAGATGGACCTGGAATCCAGCGGATATTAACCTTTTGTAT
ATTTTACAGCAGGTGGCTACAGTGATACAGTCTAGACAAGACATGCCTCAGAGGATGTTGTATCTTTA
CAAGTCTCTGATTAATCTTGCCATGAAATGTTACCTGATCGTGTGGACTATGTTGATAAAGTTCTAG
AAACAACAGTGGAGATATCAATAAGCTCAACCTTGAACATATTGCTACCAGTAGTGCAGTTTCAAAGGA
ACTCACAGACTTTTGAATAACAGTTGACACTTACAACAATATTTTAAACAGTCTTGAATTTAAACAT
TTTCAACCACTCTTTGAGTACTTTGACTACGAGTCCAGAAAGAGCATGAGTTGTTATGTGCTTAGTAATG
TTCTGGATTATAACACAGAAATGTCTCTCAAGACCAGGTGGATTCCATAATGAATTTGGTATCCACGTT
GATTCAAGATCAGCCAGATCAACCTGTAGAAGACCCTGATCCAGAAGATTTTGTGATGAGCAGAGCCTT
GTGGGCCCTTCACTCATCTGCTGCGCTCTGAGGACCCTGACCAGCAGTACTTGATTTTGAACACAGCAC
GAAAACATTTGGAGCTGGTGGAAATCAGCGGATTCGCTTCACTGCCACCTTTGGTATTTGCAGCTTA
CCAGCTGGCTTTTCGATATAAAGAGAATCTAAAGTGGATGACAAATGGGAAAAGAAATGCCAGAAGATT
TTTTCAATTTGCCACCAGACTATCAGTGTCTTGTCAAAGCAGAGCTGGCAGAATTGCCCTTAAGACTTT
TTCTTCAAGGAGCACTAGCTGCTGGGAAATTTGGTTTTGAAAATCATGAGACAGTCGCATATGAATTCAT
GTCCCAGGCATTTTCTCTGTATGAAGATGAAATCAGCGATTCAAAGCACAGCTAGCTGCCATCACCTTG
ATCATTGGCACTTTTGAAGGATGAAGTGCTTCAGTGAAGAGAATCATGAACCTCTGAGGACTCAGTGTG
CCCTTGCTGCATCCAACTTCTAAAGAACTGATCAGGGCCGAGCTGTGAGCACCTGTGCACATCTCTT
CTGGTCTGGCAGAAACACGGACAAAAATGGGGAGGAGCTTACGGAGGCAAGAGGGTAATGGAGTGCCTA
AAAAAGCTCTAAAAATAGCAAATCAGTGCATGGACCCCTCTCTACAAGTGCAGCTTTTTATAGAAATTC
TGAACAGATATCTATTTTTATGAAAAGGAAAATGATGCGGTAACAATTCAGGTTTTAAACCAGCTTAT
CCAAAAGATTCGAGAAGACCTCCCGAATCTTGAATCCAGTGAAGAAACAGAGCAGATTAACAAACATTTT
CATAACACACTGGAGCATTTCGCTTGGCGCGGAATCACCAGAATCCGAGGGCCAATTTATGAAGGTC
TCATCCTTACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC210597 protein sequence
Red=Cloning site Green=Tags(s)

MPTTQQSPQDEQEKLLEDAIQAVKVQSFQMKRCLDKNKLMDALKHASNMLGELRTSMLSPKSYEELYMAI
SDEHLHYLEVYL TDEFAKGRKVADLYELVQYAGNIIPRLYLLITVGVVYVKSFQSRKDILKDLVEMCRGV
QHPLRGLFLRNYLLQCTRNILPDEGEPTDEETTGDISDSMDFVLLNFAEMNKLWVRMQHQGHSRDREKRE
RERQELRILVGTNLVRLSQLEGVNVRYKQIVLTGILEQVVNCRDALAQEYLMECIIQVFPDEFHLQTLN
PFLRACAEHQNVVKNIIIALIDRLALFAHREDGPGIPADIKLFDIFSQQVATVIQSRQMPSEDEVVSL
QVSLINLAMKCYPDRVDYVQVLETTVEIFNKLNLEHIATSSAVSKELTRLLKIPVDTYNNILTVLKLKH
FHPLFEYFDYESRKSMSCYVLSNVDYNTIEIVSQDQVDSIMNLVSTLIQDQDPQVDPDPEDFADEQSL
VGRFIHLLRSEDPDQQYLILNTARKHFGAGGNQRIRFTLPPLVFAAYQLAFRYKENSKVDDKWEKCKQKI
FSFAHQTISALIKAELAEPLRLFLQGALAAGEIGFENHETVAYEFMSQAFSLYEDEISDSKAQLAAITL
IIGTFERMKCFSEENHEPLRTQCALAASKLLKKPDQGRAVSTCAHLFWSGRNTDKNGEELHGGKRVMECL
KKALKIANQCMDPSLQVQLFIEILNRYIYFYEKENDAVTIQVLNQLIQKIREDLPNLESSEETEQINKHF
HNTLEHLRLRRESPESEGPIYEGLIL

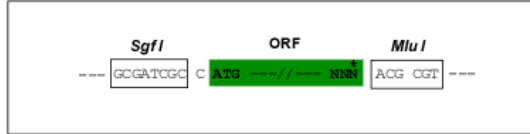
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6140_d12.zip

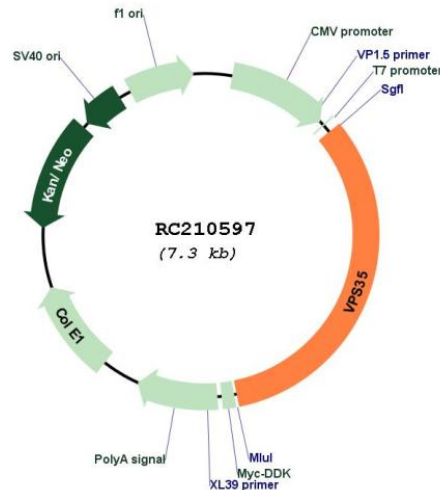
Restriction Sites: Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:


ACCN: NM_018206

ORF Size: 2388 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in *E. coli* are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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:

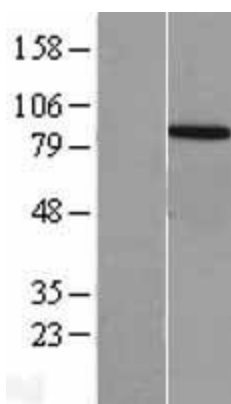
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store 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_018206.5](#)

RefSeq Size:	3298 bp
RefSeq ORF:	2391 bp
Locus ID:	55737
UniProt ID:	Q96QK1
Cytogenetics:	16q11.2
Domains:	Vps35
MW:	91.7 kDa

Gene Summary: This gene belongs to a group of vacuolar protein sorting (VPS) genes. The encoded protein is a component of a large multimeric complex, termed the retromer complex, involved in retrograde transport of proteins from endosomes to the trans-Golgi network. The close structural similarity between the yeast and human proteins that make up this complex suggests a similarity in function. Expression studies in yeast and mammalian cells indicate that this protein interacts directly with VPS35, which serves as the core of the retromer complex. [provided by RefSeq, Jul 2008]

Product images:



Western blot validation of overexpression lysate (Cat# [LY402657]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC210597 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).