

Product datasheet for **RC208420**

VPS35L (NM_020314) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	VPS35L (NM_020314) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	VPS35L
Synonyms:	C16orf62; EC97
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC208420 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCCGCTTTTCCTTGGCACTCCAGGAATAGGAACTACAAAGCTGAATTTGCATCATGCCGACTGGAGG
 CTGTACCATTGGAGTTTGGGGACTATCACCTCTGAAACCCATAACTGTACAGAGTCAAAGACAAAGAA
 AGTGAACCGGAAAAGGAAGCACTTCTCCACGTCCTCCTCCTCCAGCTCCGTGGTGGACCCGCTGAGC
 AGCGTCTCGATGGGACTGACCCCTCTCCATGTTTGCAGCCACTGCTGACCCCGCAGCCTTGGCAGCTG
 CCATGGACAGCTCCAGAAGGAAACGTGATAGAGATGATAACTCCGTTGTAGGATCGGATTTTGAGCCTTG
 GACCAACAAACGGGGAGAAAATCCTTGCCCGGTACACCACTACCGAAAAGCTGTCTATTAATCTGTTTATG
 GGATCTGAAAAGGCAAAGCTGGGACTGCCACATTGGCAATGTCAGAGAAGGTGCGGACCCGGCTGGAGG
 AGCTGGATGACTTTGAGGAGGGTCCCAAAGGAGCTGTTGAACTTGACTCAGCAGGATTACGTGAACCG
 CATAGAGGAGCTCAACCAATCGCTGAAGGATGCCTGGGCCTCAGACCAGAAAAGTGAAGGCTCTAAAAATA
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 ACAAATTCCTCTCAAACCGGGAATTTCCAGAGTGCCTGCCCGGTTGACATGCATGATCAGAGGGATCGG
 AGACCCACTAGTGTCCGTGTATGCCCGTGCCTACCTGTGCCGGGTGGGAATGGAAGTGGCCCCACATCTC
 AAAGAACCCCTAAATAAGAACTTTTTGACTTCCCTCCTACGTTCAAACAGATTCATGGGGATACGGTCC
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 GTGAGACGGTGTGGCTCAGATCCTAGAGCATCTGAAAACCTGGCCAAGGACGAGGCCCTGAAGCGCCA
 GAGCTCGTTGGCCCTTCTCTTTAACAGCATCTTGGCCATGGGGACCTACGCAACAACAGCTCAAC
 CAGCTCTCCGTCAACCTGTGGCACCTGGCACAGAGGCACGGCTGTGCAGACACCAGGACCATGGTAAAA
 CGCTAGAATACATCAAGAAGCAAAGCAAACAACAGACATGACTCATCTGACGGAGCTGGCCCTCAGACT
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC208420 protein sequence
 Red=Cloning site Green=Tags(s)

MAVFPWHSRNRNYKAEFASCRLEAVPLEFGDYHLPKIPITVTESKTKKVNKRGSTSTSSSSSSSSVVDPLS
 SVLDGTDPLSMFAATADPAALAAAMDSSRRKRDRDDNSVVGSDFEPTWTKRGEILARYTTTEKLSINLFM
 GSEKKGAGTATLAMSEKVRTRLEELDDFEESQKELLNL TQQDYVNRIEELNQSLKDAWASDQKVKALKI
 VIQCSKLLSDTSVIQFYPSKFVLTIDILDTFGKLVYERIFSMCVDSRSVLPDHFSPENANDTAKETCLNW
 FFKIASIRELIPRFYVEASILKCNKFLSKTGISECLPRLTCMIRGIGDPLVSVYARAYLCRVGMEVAPHL
 KETLNKNFFDFLLTFKQIHGDTVQNQLVVQGVELPSYLPYPPAMDWIFQCISYHAPEALLTEMERCKK
 LGNNALLLNSVMSAFRAEFIATRSMDFIGMIKECDESGFPKHLLFRSLGLNLALADPPESDRLQILNEAW
 KVITKLNKPNQDYINCAEVWVEYTCCKHFTKREVNTVLADVIKHMTPDRAFEDSYPQLQLIIKKVIAHFHDF
 SVLFSVEKFLPFLDMFQKESVRVEVCKCIMDAFIKHQEQPTKDPVILNALLHVCKTMHDSVNALTLEDEK
 RMLSYLINGFIKVSFGRDFEQQLSFYVESRSMFCNLEPVLVQLIHSVNLAMETRKVMKGNHSRKTAAF
 VRACVAYCFITIPSLAGIFTRLNLYLHSGQVALANQCLSQADAFFKAAISLVPEVPKMINIDGKMRPSES
 FLLEFLCNFFSTLLIVDPHEHGVLFVRELLNVIQDYTWEDNSDEKIRIYTCVLHLLSAMSQETLYYHI
 DKVDSNDSL YGGDSKFLAENKLCETVMAQILEHLKTLAKDEALKRQSSLGLSFFNSILAHGDLRNNKLN
 QLSVNLWHLAQRHGCA DTRTMVKTLEYIKKQSKQPD MHTLTELALRRLPLQTRT

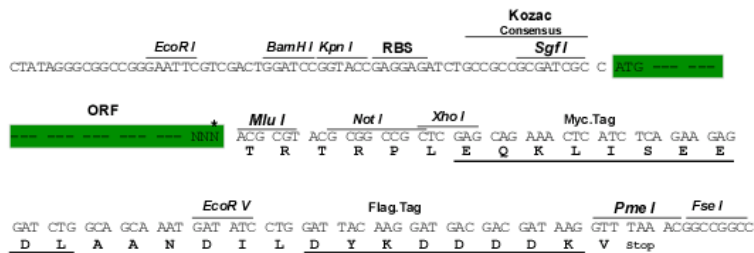
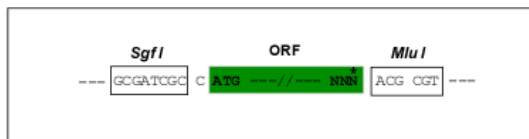
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6693_c04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



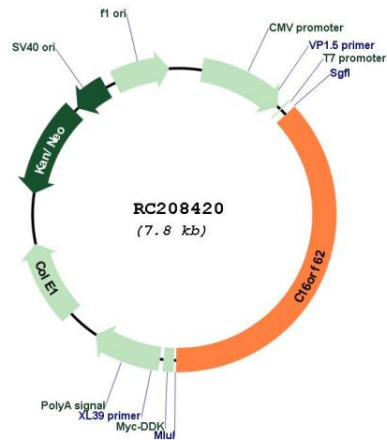
* The last codon before the Stop codon of the ORF

ACCN: NM_020314

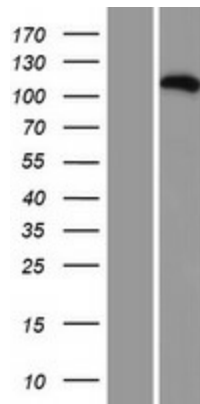
ORF Size: 2889 bp

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:	<ol style="list-style-type: none">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_020314.7
RefSeq Size:	3894 bp
RefSeq ORF:	2892 bp
Locus ID:	57020
UniProt ID:	Q7Z3J2
Cytogenetics:	16p12.3
MW:	109.6 kDa
Gene Summary:	Acts as component of the retriever complex. The retriever complex is a heterotrimeric complex related to retromer cargo-selective complex (CSC) and essential for retromer-independent retrieval and recycling of numerous cargos such as integrin alpha-5/beta-1 (ITGA5:ITGB1) (PubMed:28892079). The recruitment of the retriever complex to the endosomal membrane involves CCC and WASH complexes (PubMed:28892079). In the endosomes, drives the retrieval and recycling of NxxY-motif-containing cargo proteins by coupling to SNX17, a cargo essential for the homeostatic maintenance of numerous cell surface proteins associated with processes that include cell migration, cell adhesion, nutrient supply and cell signaling (PubMed:28892079). Involved in copper-dependent ATP7A trafficking between the trans-Golgi network and vesicles in the cell periphery; the function is proposed to depend on its association with the CCC complex and cooperation with the WASH complex on early endosomes. Seems not to be required for CCC complex stability (PubMed:25355947). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC208420



Western blot validation of overexpression lysate (Cat# [LY412555]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC208420 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).