

Product datasheet for **RC200025**

VPS28 (NM_016208) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Tag: Myc-DDK
Symbol: VPS28
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC200025 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTTTCATGGGATCCCAGCCACGCCGGGCATAGGAGCCCTGGGAACAAGCCGGAGCTGTATGAGGAAG
 TGAAGTTGTACAAGAACGCCGGGAGAGGGAGAAGTACGACAACATGGCAGAGCTGTTTGCAGTGGTGAA
 GACAATGCAAGCCCTGGAGAAGGCCTACATCAAGGACTGTGTCTCCCCAGCGAGTACACTGCAGCCTGC
 TCCCGGCTCCTGGTCCAATACAAAGCTGCCTTCAGGCAGGTCCAGGGCTCAGAAATCAGCTCTATTGACG
 AATTCTGCGCAAGTTCCGCCTGGACTGCCGCTGGCCATGGAGCGGATCAAGGAGGACCGGCCCATCAC
 CATCAAGGACGACAAGGGCAACCTCAACCGCTGCATCGCAGACGTGGTCTCGCTCTTCATCACGGTCATG
 GACAAGCTGCGCCTGGAGATCCGCGCCATGGATGAGATCCAGCCGACCTGCGAGAGCTGATGGAGACCA
 TGCAACCGCATGAGCCACCTCCCACCCGACTTTGAGGGCCGCCAGACGGTCAGCCAGTGGCTGCAGACCT
 GAGCGGCATGTCGGCGTCAGATGAGCTGGACGACTCACAGGTGCGTCAGATGCTGTTTCGACCTGGAGTCA
 GCCTACAACGCCTTCAACCGCTTCTGCATGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC200025 protein sequence
 Red=Cloning site Green=Tags(s)

MFHGIPATPGIGAPGNKPELYEEVKLYKNAREREKYDNMAELFAVVKTMQALEKAYIKDCVSPSEYTAAC
 SRLLVQYKAAFRQVQSGEISSIDEFCRKFRLCDPLAMERIKEDRPITIKDDKGNLNRCIADVSLFITVM
 DKLRLEIRAMDEIQPDRELME TMHRMSHLPDFEGRQTVSQWLQTL SGMSASDELDDSQVRQMLFDLES
 AYNFNRFLHA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

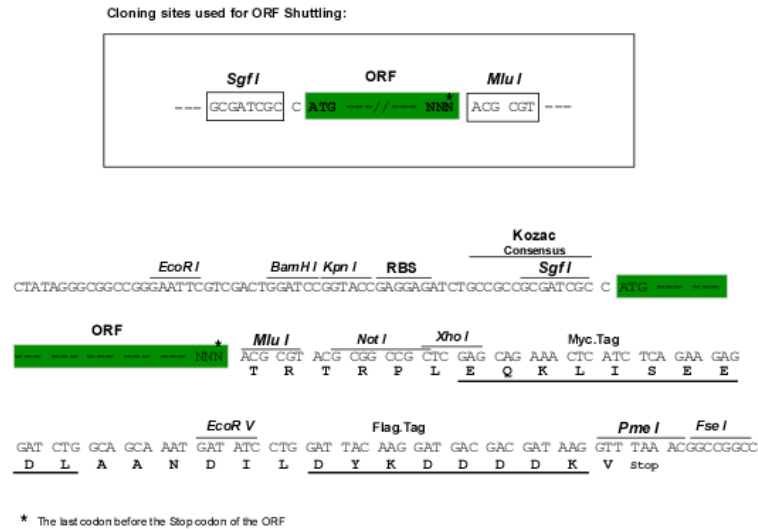
Chromatograms: https://cdn.origene.com/chromatograms/mk6408_h04.zip



[View online »](#)

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_016208

ORF Size: 663 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_016208.2](#), [NP_057292.1](#)

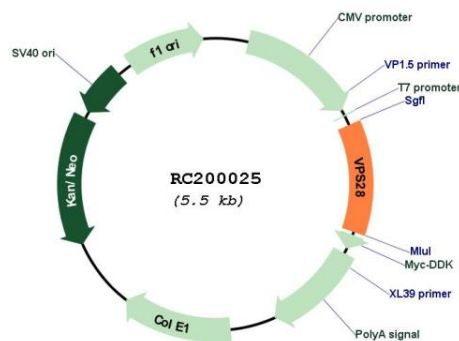
RefSeq Size: 994 bp

RefSeq ORF: 666 bp

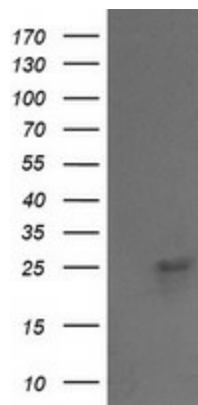
Locus ID: 51160
UniProt ID: [Q9UK41](#)
Cytogenetics: 8q24.3
Domains: VPS28
Protein Pathways: Endocytosis
MW: 25.4 kDa
Gene Summary:

This gene encodes a protein subunit of the ESCRT-I complex (endosomal complexes required for transport), which functions in the transport and sorting of proteins into subcellular vesicles. This complex can also be hijacked to facilitate the budding of enveloped viruses from the cell membrane. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jul 2013]

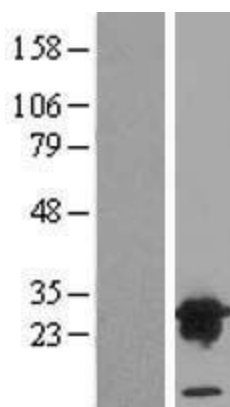
Product images:



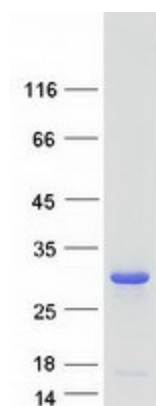
Circular map for RC200025



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY VPS28 (Cat# RC200025, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-VPS28 (Cat# [TA505691]). Positive lysates [LY414122] (100ug) and [LC414122] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY414122]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200025 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified VPS28 protein (Cat# [TP300025]). The protein was produced from HEK293T cells transfected with VPS28 cDNA clone (Cat# RC200025) using MegaTran 2.0 (Cat# [TT210002]).