

Product datasheet for **RC220006**

VPS24 (CHMP3) (NM_016079) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	VPS24 (CHMP3) (NM_016079) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	VPS24
Synonyms:	CGI-149; NEDF; VPS24
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC220006 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGCTGTTTGGAAAGACCCAGGAGAAGCCGCCAAAGAACTGGTCAATGAGTGGTCATTGAAGATAA
GAAAGGAAATGAGAGTTGTTGACAGGCAAATAAGGGATATCCAAAGAGAAGAAGAAAAAGTGAAACGATC
TGTGAAAGATGCTGCCAAGAAGGCCAGAAGGATGTCTGCATAGTTCTGGCCAAGGAGATGATCAGGTCA
AGGAAGGCTGTGAGCAAGCTGTATGCATCAAAGCACACATGAACTCAGTGCTCATGGGGATGAAGAACC
AGCTCGCGGTCTTGCAGTGGCTGGTCCCTGCAGAAGAGCACAGAAGTATGAAGGCCATGCAAAGTCT
TGTGAAGATCCAGAGATTCAGGCCACCATGAGGGAGTTGTCCAAGAAATGATGAAGGCTGGGATCATA
GAGGAGATGTTAGAGGACACTTTTAAAAGCATGGACGATCAGGAAGAAATGGAGGAAGAAGCAGAAATGG
AAATTGACAGAATTCTCTTTGAAATTACAGCAGGGGCTTGGGCAAAGCACCCAGTAAAGTGACTGATGC
CCTTCCAGAGCCAGAACCTCCAGGAGCGATGGCTGCCTCAGAGGATGAGGAGGAGGAGGAAGAGGCTCTG
GAGGCCATGCAGTCCCGGCTGGCCACACTCCGCAGC

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC220006 protein sequence
Red=Cloning site Green=Tags(s)

MGLFGKTQEKPPKELVNEWSLKIRKEMRVVDRQIRDIQREEEKVKRSVKDAAKKGQKDVCIVLAKEMIRS
 RKAVSKLYASKAHMNSVLMGMKNQLAVLRVAGSLQKSTEVKAMQSLVKIPEIQATMRELSKEMMKAGII
 EEMLEDTFESMDDQEEMEEEAEMEIDRILFEITAGALGKAPSKVTDALPEPEPPGAMAASEDEEEEEEEAL
 EAMQSRLATLRS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6391_e06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_016079

ORF Size: 666 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_016079.4](#)

RefSeq Size: 3194 bp

RefSeq ORF: 669 bp

Locus ID: 51652

UniProt ID: [Q9Y3E7](#)

Cytogenetics: 2p11.2

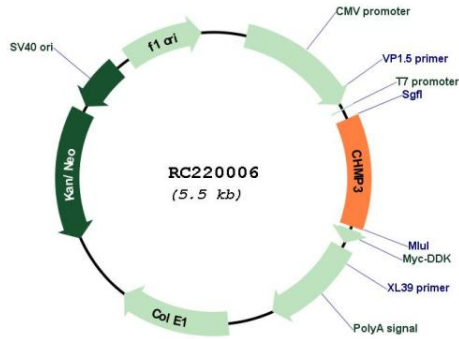
Domains: DUF279

Protein Pathways: Endocytosis

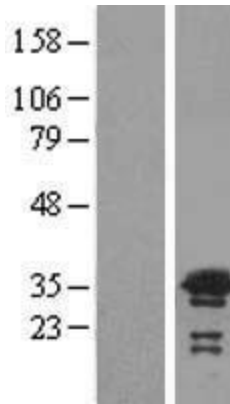
MW: 25.1 kDa

Gene Summary: This gene encodes a protein that sorts transmembrane proteins into lysosomes/vacuoles via the multivesicular body (MVB) pathway. This protein, along with other soluble coiled-coil containing proteins, forms part of the ESCRT-III protein complex that binds to the endosomal membrane and recruits additional cofactors for protein sorting into the MVB. This protein may also co-immunoprecipitate with a member of the IFG-binding protein superfamily. Alternative splicing results in multiple transcript variants. Read-through transcription also exists between this gene and the upstream ring finger protein 103 (RNF103) gene. [provided by RefSeq, Nov 2010]

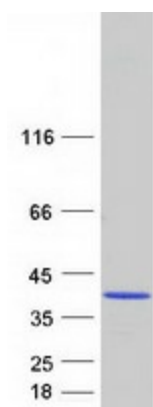
Product images:



Circular map for RC220006



Western blot validation of overexpression lysate (Cat# [LY414204]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC220006 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified CHMP3 protein (Cat# [TP320006]). The protein was produced from HEK293T cells transfected with CHMP3 cDNA clone (Cat# RC220006) using MegaTran 2.0 (Cat# [TT210002]).