

Product datasheet for RC219311

VPS29 (NM_016226) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	VPS29 (NM_016226) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	VPS29
Synonyms:	DC7; DC15; PEP11
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC219311 representing NM_016226 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTGGTGTGGTATTAGGAGATCTGCACATCCACACCGGTGCAACAGTTTGCCAGCTAAATTCAAAA
AACTCCTGGTGCCAGGAAAAATTCAGCACATTCTGACAGGAAACCTTGCACCAAAGAGAGTTATGA
CTATCTCAAGACTCTGGCTGGTATGTTTCATATTGTGAGAGGAGACTTCGATGAGAATCTGAATTATCCA
GAACAGAAAGTTGTGACTGTTGGACAGTTCAAAATTGGTCTGATCCATGGACATCAAGTTATTCCATGGG
GAGATATGGCCAGCTTAGCCCTGTTGCAGAGGCAATTTGATGTGGACATTCTTATCTCGGGACACACACA
CAAATTTGAAGCATTTGAGCATGAAAATAAATTCTACATTAATCCAGTTCTGCCACTGGGGCATATAAT
GCCTTGAAACAAACATTATTCCATCATTTGTGTTGATGGATATCCAGGCTTCTACAGTGGTCACCTATG
TGTATCAGCTAATTGGAGATGATGTGAAAGTAGAACGAATCGAATACAAAAAACCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:	>RC219311 representing NM_016226 Red=Cloning site Green=Tags(s)
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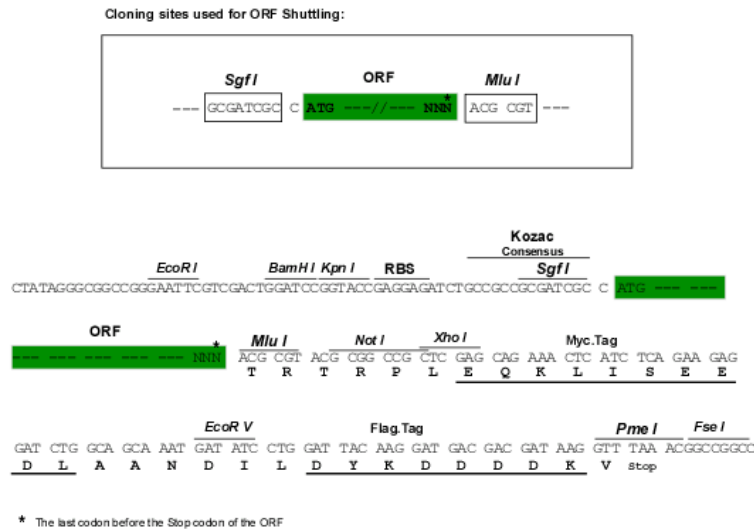
MLVLVLGDLHIPHRNSLPAKFKLLVPGKIQHILCTGNLCTKESYDYLKTLAGDVHIVRGDFDENLNYP
EQKVVTVGQFKIGLIHGQVIPWGDMSLALLQRQFDVDILISGHTHKFEAFEHENKFYINPGSATGAYN
ALETNIIPSFVLMIDIQASTVVTVYVYQLIGDDVKVERIEYKKP

TRTRPLE**QKL**ISEEDLAANDILDYKDDDDKV

Restriction Sites:	SgfI-MluI
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Cloning Scheme:



ACCN: NM_016226

ORF Size: 546 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_016226.5](#)

RefSeq Size: 1095 bp

RefSeq ORF: 549 bp

Locus ID: 51699

UniProt ID: Q9UBQ0

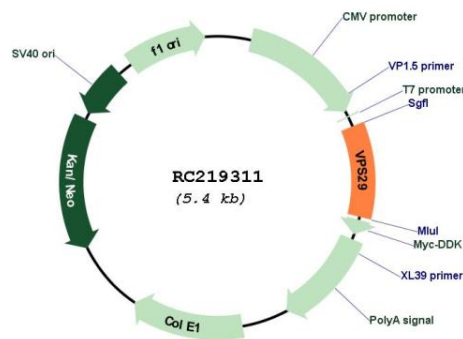
Cytogenetics: 12q24.11

Domains: Metallophos

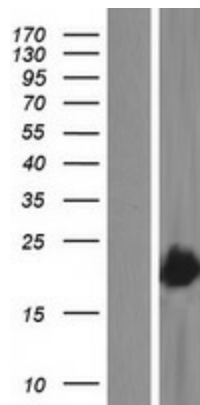
MW: 20.3 kDa

Gene Summary: This gene belongs to a group of vacuolar protein sorting (VPS) genes that, when functionally impaired, disrupt the efficient delivery of vacuolar hydrolases. The protein encoded by this gene is a component of a large multimeric complex, termed the retromer complex, which is involved in retrograde transport of proteins from endosomes to the trans-Golgi network. This VPS protein may be involved in the formation of the inner shell of the retromer coat for retrograde vesicles leaving the prevacuolar compartment. Alternative splice variants encoding different isoforms and representing non-protein coding transcripts have been found for this gene. [provided by RefSeq, Aug 2013]

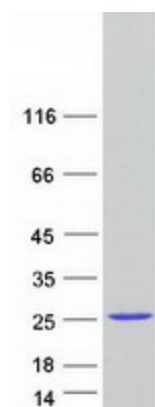
Product images:



Circular map for RC219311



Western blot validation of overexpression lysate (Cat# [LY414109]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC219311 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified VPS29 protein (Cat# [TP319311]). The protein was produced from HEK293T cells transfected with VPS29 cDNA clone (Cat# RC219311) using MegaTran 2.0 (Cat# [TT210002]).