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Product datasheet for RC224536

VPS18 (NM_020857) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	VPS18 (NM_020857) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	VPS18
Synonyms:	PEP3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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ORF Nucleotide Sequence:

>RC224536 representing NM_020857
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGTCCATCCTGGATGAGTACGAGAACTCGCTGTCCCGCTCGGCCGTCTTGCAGCCCGGCTGCCCTA
GCGTGGGCATCCCCCACTCGGGGTATGTGAATGCCCAGCTGGAGAAGGAAGTGCCCATCTTCACAAAGCA
GCGCATTGACTTCACCCCTTCCGAGCGCATTACCAGTCTTGTCGTCTCCAGCAATCAGCTGTGCATGAGC
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GTAAGGATGACGCAAAAGTTCACAAGATGTTCCTTGACCATACTGGCTCTCACCTGCTGATTGCCCTGAG
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ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC224536 representing NM_020857
Red=Cloning site Green=Tags(s)

MASILDEYENSLSRSAVLQPGCPSVGIPHSGYVNAQLEKEVPIFTKQRIDFTPSERITSLVVSSNQLCMS
LGKDTLLRIDLGKANEPNHVELGRKDDAKVHKMFLDHTGSHLLIALSSTEVLYVNRNGQKVRPLARWKGQ
LVESVGWNKALGTESSTGPILVGTAQGHIFEAELSASEGGLFGPAPDLYFRPLYVLNEEGGPAPVCSLEA
ERGPDGRSFVIATTRQRLFQFIGRAAEGAEAQGFSGLFAAYTDHPPPFREFPSNLGYSELAFYTPKLRSA
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VIMQDYERVVAYHCQHEAYEEALAVLARHRDPQLFYKFSPILIRHIPRQLVDAWIEMGSRLDARQLIPAL
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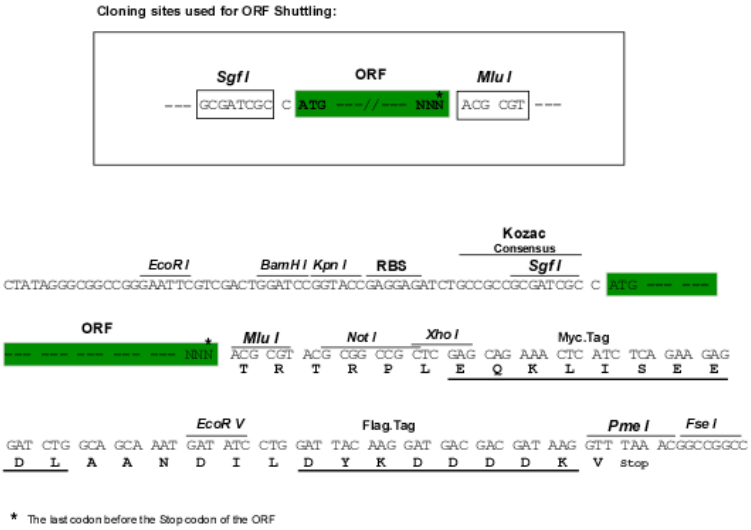
RGRYGTVEPQDKCATCDFPLLNRPFYLFLCGHMFHADCLLQAVRPGLPAYKQARLEELQRKLGAAPPPAK
GSARAKEAEGGAATAGPSREQLKADLDELVAAECVYCGELMIRSIDRPFIDPQRYEEEQLSWL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6252_b02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_020857

ORF Size: 2919 bp

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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.
RefSeq:	NM_020857.3
RefSeq Size:	3922 bp
RefSeq ORF:	2922 bp
Locus ID:	57617
UniProt ID:	Q9P253
Cytogenetics:	15q15.1
Domains:	Pep3_Vps18
MW:	110 kDa
Gene Summary:	Vesicle mediated protein sorting plays an important role in segregation of intracellular molecules into distinct organelles. Genetic studies in yeast have identified more than 40 vacuolar protein sorting (VPS) genes involved in vesicle transport to vacuoles. This gene encodes the human homolog of yeast class C Vps18 protein. The mammalian class C Vps proteins are predominantly associated with late endosomes/lysosomes, and like their yeast counterparts, may mediate vesicle trafficking steps in the endosome/lysosome pathway. [provided by RefSeq, Jul 2008]

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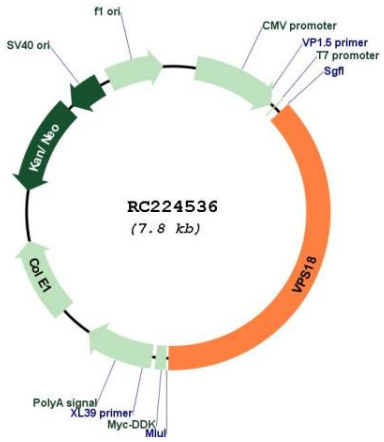
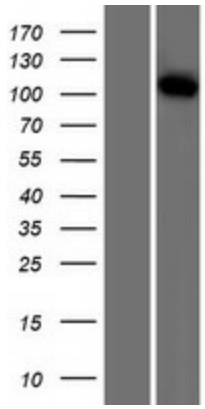
Product images:



Circular map for RC224536



Western blot validation of overexpression lysate (Cat# [LY412275]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC224536 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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