

Product datasheet for **RC235552**

VPS29 (NM_001282151) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: VPS29 (NM_001282151) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: VPS29
Synonyms: DC7; DC15; PEP11
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC235552 representing NM_001282151
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGTTGGTGTGGTATTAGGAGATCTGCACATCCACACCGGTGCAACAGTTTGCCAGCTAAATTCAAAA
AACTCCTGGTGCCAGGAAAAATTCAGCACATTCTCTGCACAGGAAACCTTGCACAAAGAGAGTTATGA
CTATCTCAAGACTCTGGCTGGTGTATGTTTCATATTGTGAGAGGAGACTTCGATGAGAAACATTATTCCATC
ATTTGTGTTGATGGATATCCAGGCTTCTACAGTGGTCACCTATGTGTATCAGCTAATTGGAGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC235552 representing NM_001282151
Red=Cloning site Green=Tags(s)

MLVLVLGDLHIPHCNSLPAKFKLLVPGKIQHILCTGNLCTKESYDYLKTLAGDVHIVRGDFDEKHYSI
ICVDGYPGFYSGHLCVSNWR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

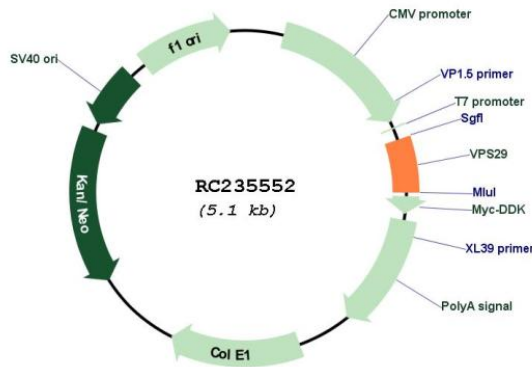


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001282151

ORF Size: 273 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:	<u>NM_001282151.1</u> , <u>NP_001269080.1</u>
RefSeq Size:	905 bp
RefSeq ORF:	276 bp
Locus ID:	51699
Cytogenetics:	12q24.11
MW:	10.7 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]