OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC201460

VPS29 (NM_057180) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	VPS29 (NM_057180) 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:

>RC201460 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCTGGGCACAGATTGGTGTTGGTATTAGGAGATCTGCACATCCCACACCGGTGCAACAGTTTGCCAG
CTAAATTCAAAAAACTCCTGGTGCCAGGAAAAATTCAGCACATTCTCTGCACAGGAAACCTTTGCACCAA
AGAGAGTTATGACTATCTCAAGACTCTGGCTGGTGATGTTCATATTGTGAGAGGAGACTTCGATGAGAAT
CTGAATTATCCAGAACAGAAAGTTGTGACTGTTGGACAGTTCAAAATTGGTCTGATCCATGGACATCAAG
TTATTCCATGGGGAGATATGGCCAGCTTAGCCCTGTTGCAGAGGCAATTTGATGTGGACATTCTTATCTC
GGGACACACACACAAATTTGAAGCATTTGAGCATGAAAATAAATTCTACATTAATCCAGGTTCTGCCACT
GGGGCATATAATGCCTTGGAAACAAACATTATTCCATCATTTGTGTTGATGGATATCCAGGCTTCTACAG
TGGTCACCTATGTGTATCAGCTAATTGGAGATGATGTGAAAGTAGAACGAATCGAATACAAAAAACCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC201460 protein sequence
Red=Cloning site Green=Tags(s)

MAGHRLVLVLGDLHIPHRCNSLPAKFKKLLVPGKIQHILCTGNLCTKESYDYLKTLAGDVHIVRGDFDEN
LNYPEQKVVTVGQFKIGLIHGHQVIPWGDMASLALLQRQFDVDILISGHTHKFEAFEHENKFYINPGSAT
GAYNALETNIIPSFVLMDIQASTVVTYVYQLIGDDVKVERIEYKKP

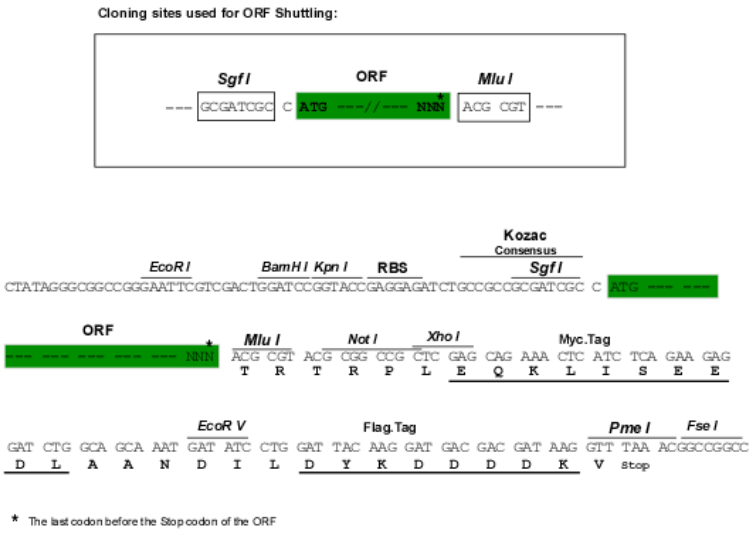
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6858_c07.zip

View online »

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_057180

ORF Size: 558 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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

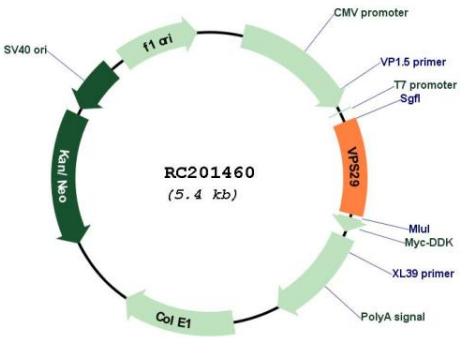
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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).

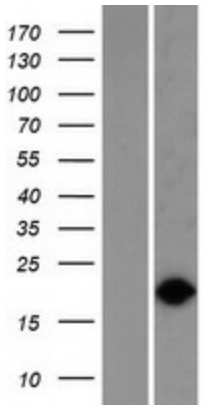
Reconstitution Method:
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid 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_057180.2
RefSeq Size:	1153 bp
RefSeq ORF:	561 bp
Locus ID:	51699
UniProt ID:	Q9UBQ0
Cytogenetics:	12q24.11
Domains:	Metallophos
MW:	20.9 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]

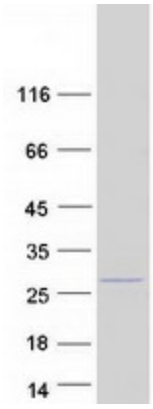
Product images:



Circular map for RC201460



Western blot validation of overexpression lysate (Cat# [LY409254]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201460 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified VPS29 protein (Cat# [TP301460]). The protein was produced from HEK293T cells transfected with VPS29 cDNA clone (Cat# RC201460) using MegaTran 2.0 (Cat# [TT210002]).