

Product datasheet for **RG219311**

VPS29 (NM_016226) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: VPS29 (NM_016226) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: VPS29
Synonyms: DC7; DC15; PEP11
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG219311 representing NM_016226
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTTGGTGTGGTATTAGGAGATCTGCACATCCACACCCGGTGAACAGTTTGCCAGCTAAATTCAAAA
 AACTCCTGGTGCCAGGAAAAATTAGCAGCATTCTGCACAGGAAACCTTGCACCAAAGAGAGTTATGA
 CTATCTCAAGACTCTGGCTGGTGTATTTATATTGTGAGAGGAGACTTCGATGAGAATCTGAATTATCCA
 GAACAGAAAGTTGTGACTGTTGGACAGTTCAAAATTGGTCTGATCCATGGACATCAAGTTATTCCATGGG
 GAGATATGGCCAGCTTAGCCCTGTGCAGAGGCAATTTGATGTGGACATTCTATCTCGGGACACACACA
 CAAATTTGAAGCATTGAGCATGAAAATAAATTCTACATTAATCCAGTTCTGCCACTGGGCATATAAT
 GCCTTGAAACAAACATTATTCCATCATTGTGTTGATGGATATCCAGGCTTCTACAGTGGTCACCTATG
 TGTATCAGCTAATTGGAGATGATGTGAAAGTAGAACGAATCGAATACAAAAACCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG219311 representing NM_016226
 Red=Cloning site Green=Tags(s)

MLVLVLDLHPIHRCNSLPAKFKLLVPGKIQHILCTGNLCTKESYDYLKTLAGDVHIVRGDFDENLNYP
 EQKVVTYVQFKIGLIHGHQVIPWGDMSLALLQRQFDVDILISGHTHKFEAFEHENKFIYINPGSATGAYN
 ALETNIIPSFVLMDIQASTVVVYVYQLIGDDVKVERIEYKPK

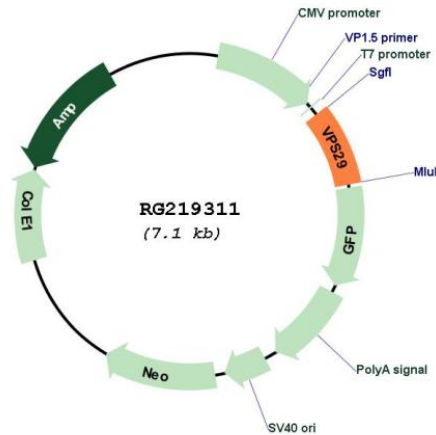
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



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Cloning Scheme:

Plasmid Map:


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:	<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_016226.5</u>
RefSeq Size:	1095 bp
RefSeq ORF:	549 bp
Locus ID:	51699
UniProt ID:	<u>Q9UBQ0</u>
Cytogenetics:	12q24.11
Domains:	Metallophos
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]