

## Product datasheet for **RG201460**

### VPS29 (NM\_057180) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** VPS29 (NM\_057180) 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:** >RG201460 representing NM\_057180  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCTGGGCACAGATTGGTGTGGTATTAGGAGATCTGCACATCCACACCCGGTCAACAGTTTGCCAG  
 CTAATTCAAAACTCCTGGTGCCAGGAAAAATTCAGCACATTCTGCACAGGAAACCTTTGCACCAA  
 AGAGAGTTATGACTATCTCAAGACTCTGGCTGGTGTGTTTATTTGTGAGAGGAGACTTCGATGAGAAT  
 CTGAATTATCCAGAACAGAAAGTTGTGACTGTTGGACAGTTCAAATTTGGTCTGATCCATGGACATCAAG  
 TTATTCATGGGGAGATATGGCCAGCTTAGCCCTGTTGCAGAGGCAATTTGATGTGGACATTCTTATCTC  
 GGGACACACACAAAATTTGAAGCATTTGAGCATGAAAAATAATTTCTACATTAATCCAGGTTCTGCCACT  
 GGGGCATATAATGCCTTGAAACAAACATTATTCCATCATTTGTGTTGATGGATATCCAGGCTTCTACAG  
 TGGTCACCTATGTGTATCAGCTAATTGGAGATGATGTGAAAGTAGAACGAATCGAATACAAAAACCT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG201460 representing NM\_057180  
 Red=Cloning site Green=Tags(s)

MAGHRLVVLGDLHIPHCNSLPAKFKLLVPGKIQHILCTGNLCTKESYDYLKTLAGDVHIVRGDFDEN  
 LNYPEQKVVTVGQFKIGLIHGQVIPWGDMSLALLQRQFDVDILISGHTHKFEAFEHENKFYINPGSAT  
 GAYNALETNIIPSFVLMDIQASTVVTVYVQLIGDDVKVERIEYKKP

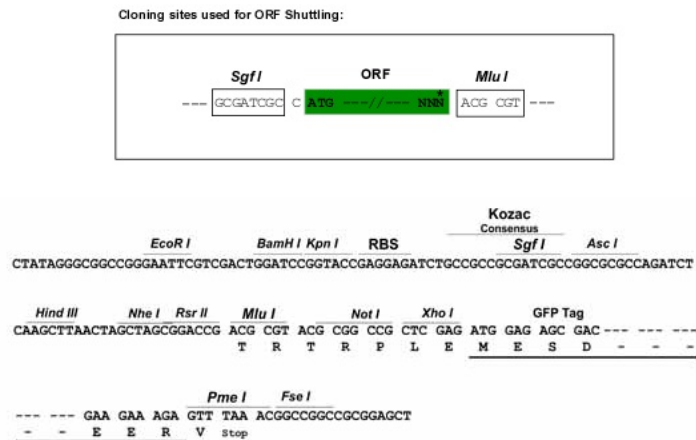
**TRTRPLE** - GFP Tag - V

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja3382\\_g06.zip](https://cdn.origene.com/chromatograms/ja3382_g06.zip)



**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](mailto: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

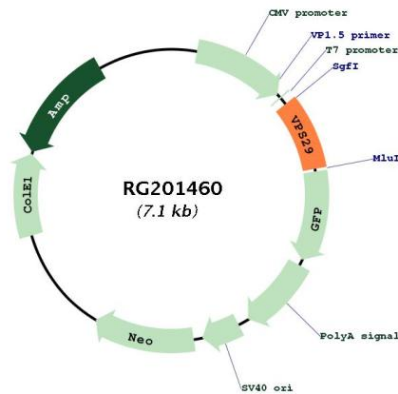
**UniProt ID:** [Q9UBQ0](#)

**Cytogenetics:** 12q24.11

**Domains:** Metallophos

**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 RG201460