

## Product datasheet for **RG236622**

### VPS29 (NM\_001282150) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	VPS29 (NM_001282150) 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:	>RG236622 representing NM_001282150. Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGGCCGGGAATTCGTGCACTG
GATCCGGTACCGAGGAGATCTGCCGCC CGCATCGCC
ATGAGCAGGTGTGCTCTCAGAGGGCGGGATTTGGCGCTTGCAATTGCTGGAAGTGTTCCTTCCACGGG
TTGCTACGCCTCTTAGGGCTGGGCACAGATTGGTGTGGTATTAGGAGATCTGCACATCCCACACCGG
TGCAACAGTTTGCCAGCTAAATTCAAAAACTCCTGGTCCAGGAAAAATTCAGCACATTCTGCACA
GGAAACCTTGCACCAAGAGAGTTATGACTATCTCAAGACTCTGGCTGGTGATGTTTCATATTGTGAGA
GGAGACTTCGATGAGAATCTGAATTATCCAGAACAGAAAGTTGTGACTGTTGGACAGTTCAAATTTGGT
CTGATCCATGGACATCAAGTTATCCATGGGGAGATATGGCCAGCTTAGCCCTGTTGCAGAGGCAATTT
GATGTGGACATTCCTATCTCGGGACACACACAAATTTGAAGCATTTGAGCATGAAAATAAATTCTAC
ATTAATCCAGTTCTGCCACTGGGGCATATAATGCCTTGAAAACAAACATTATTCATCATTTGTGTTG
ATGGATATCCAGGCTTCTACAGTGGTCACCTATGTGTATCAGCTAATTGGAGATGATGTGAAAGTAGAA
CGAATCGAATACAAAAACCT
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```



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**Protein Sequence:** >Peptide sequence encoded by RG236622  
 Blue=ORF Red=Cloning site Green=Tag(s)

MSRCALRGRDLALAIAGTVSFHGLLRFRAGHRLVVLGDLHIPHRCNSLPAKFKKLLVPGKIQHILCT  
 GNLCTKESYDYDLKTLAGDVHIVRGDFDENLNYPEQKVVTVGQFKIGLIHGHOVIPWGDMSLALLQRQF  
 DVDILISGHTHKFEAFEHENKFYINPGSATGAYNALETNIIPSFVLMIDIQASTVVTVYVYQLIGDDVKVE  
 RIEYKKP  
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV  
 MGYGFYHFGTYPSGYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPEP  
 SVIFTDKIIRSNAVHHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA  
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001282150

**ORF Size:** 642 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).

**RefSeq:** [NM\\_001282150.1](#), [NP\\_001269079.1](#)

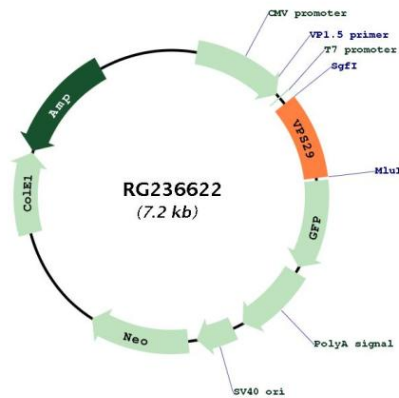
**RefSeq Size:** 1296 bp

**RefSeq ORF:** 645 bp

**Locus ID:** 51699  
**Cytogenetics:** 12q24.11  
**MW:** 24.4 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 RG236622