

Product datasheet for **RG235552**

VPS29 (NM_001282151) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: VPS29 (NM_001282151) 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: >RG235552 representing NM_001282151.
Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGTTGGTGTGGTATTAGGAGATCTGCACATCCACACCCGGTGAACAGTTTGCCAGCTAAATCAAA
AAACTCCTGGTGCCAGGAAAAATTCAGCACATTCTCTGCACAGGAAACCTTTGCACCAAAGAGATTAT
GACTATCTCAAGACTCTGGCTGGTGATGTTTCATATTGTGAGAGGAGACTTCGATGAGAAACATTATTC
ATCATTGTGTTGATGGATATCCAGGCTTCTACAGTGGTCACCTATGTGTATCAGCTAATTGGAGA
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

Protein Sequence: >Peptide sequence encoded by RG235552
Blue=ORF Red=Cloning site Green=Tag(s)

```
MLVLVLGDLHIPHCNSLPAKFKLLVPGKIQHILCTGNLCTKESYDYLKTLAGDVHIVRGDFDEKHYS
IICVDGYPGFYSGHLCVSANWR
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNNGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPEP
SVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

Restriction Sites: SgfI-MluI



Cloning Scheme:


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).

RefSeq: [NM_001282151.1](#), [NP_001269080.1](#)

RefSeq Size: 905 bp

RefSeq ORF: 276 bp

Locus ID: 51699

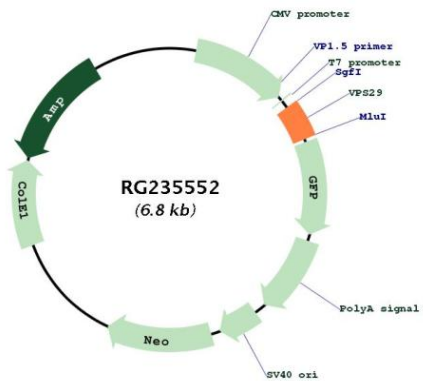
Cytogenetics: 12q24.11

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]

Product images:



Circular map for RG235552