

## Product datasheet for RC236622

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

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** VPS29 (NM\_001282150) 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:** >RC236622 representing NM\_001282150.  
Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTGTGAAACCGTCAGAATTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGAGCAGGTGTGCTCTCAGAGGGCGGGATTTGGCGCTTGCAATTGCTGGAAGTGTTCCTTCCACGGG
TTGCTACGCCCTTTAGGGCTGGGCACAGATTGGTGTGGTATTAGGAGATCTGCACATCCACACCCGG
TGCAACAGTTTGCACAGTAAATTCAAAAACTCCTGGTCCAGGAAAAATTCAGCACATTCTGCACA
GGAAACCTTTCACCAAGAGAGTTATGACTATCTCAAGACTCTGGCTGGTGATGTTTCATATTGTGAGA
GGAGACTTCGATGAGAATCTGAATTATCCAGAACAGAAAGTTGTGACTGTTGGACAGTTCAAAATGGT
CTGATCCATGGACATCAAGTTATCCATGGGAGATATGGCCAGCTTAGCCCTGTTGCAGAGGCAATTT
GATGTGGACATCTTATCTCGGGACACACACAAATTTGAAGCATTGAGCATGAAAATAAATTCTAC
ATTAATCCAGTTCTGCCACTGGGCATATAATGCCTTGAAACAAACATTATCCATCATTTGTGTTG
ATGGATATCCAGGCTTCTACAGTGGTCACCTATGTGTATCAGCTAATTGGAGATGATGTGAAAGTAGAA
CGAATCGAATACAAAAACCT
ACGCGTACGCGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTAAACGGCCGCGC
```

**Protein Sequence:** >Peptide sequence encoded by RC236622  
Blue=ORF Red=Cloning site Green=Tag(s)

```
MSRCALRGRDLALAIAGTVSFHGLLRLFRAGHRLVLVLDLHPIHRCNSLPKFKKLLVPGKIQHILCT
GNLCTKESYDYLKTLAGDVHIVRGDFDENLNYPEQKVVTGQFKIGLIHGHQVIPWGDMSLALLQRQF
DVDILISGHTHKFEAFEHENKFYINPGSATGAYNALETNIIPSFVLMDIQASTVVTVVYQLIGDDVKVE
RIEYKKP
TRTRPLEQKLISEEDLAANDILDYKDDDDKV
```

**Restriction Sites:** Sgfl-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).

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

**RefSeq Size:** 1296 bp

**RefSeq ORF:** 645 bp

**Locus ID:** 51699

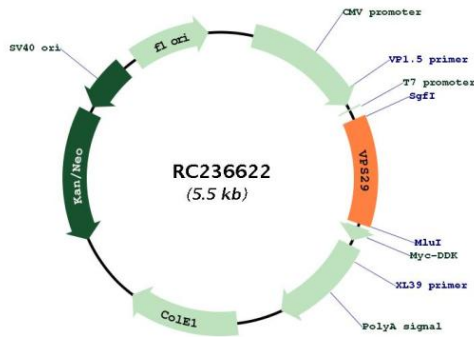
**Cytogenetics:** 12q24.11

**MW:** 24 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 RC236622