

## Product datasheet for MC205526

### Vps18 (NM\_172269) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Vps18 (NM_172269) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Vps18
Synonyms:	9930024E13Rik
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>BC036129

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AGCCTATAATCTCTTGGGACTGGAGCTGGGGTGCAAAGCTGCGCCATGGTCTAGTTGGGGCTCCTCGATC
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 TGCTGTCTCAAAAAAAAAAAAAATTAATAATAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA AAAA

- Restriction Sites:** RsrII-NotI
- ACCN:** NM\_172269
- Insert Size:** 2922 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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: [BC036129](#), [AAH36129](#)

RefSeq Size: 3924 bp

RefSeq ORF: 2922 bp

Locus ID: 228545

UniProt ID: [Q8R307](#)

Cytogenetics: 2 E5

**Gene Summary:** Plays a role in vesicle-mediated protein trafficking to lysosomal compartments including the endocytic membrane transport and autophagic pathways. Believed to act as a core component of the putative HOPS and CORVET endosomal tethering complexes which are proposed to be involved in the Rab5-to-Rab7 endosome conversion probably implicating MON1A/B, and via binding SNAREs and SNARE complexes to mediate tethering and docking events during SNARE-mediated membrane fusion. The HOPS complex is proposed to be recruited to Rab7 on the late endosomal membrane and to regulate late endocytic, phagocytic and autophagic traffic towards lysosomes. The CORVET complex is proposed to function as a Rab5 effector to mediate early endosome fusion probably in specific endosome subpopulations (By similarity). Required for fusion of endosomes and autophagosomes with lysosomes (PubMed:14517315, PubMed:22854957). Involved in dendrite development of Purkinje cells (PubMed:22699122).[UniProtKB/Swiss-Prot Function]