

# **Product datasheet for RG231030**

### OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436

Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

## VPS24 (CHMP3) (NM\_001193517) Human Tagged ORF Clone

**Product data:** 

**Product Type:** Expression Plasmids

**Product Name:** VPS24 (CHMP3) (NM\_001193517) Human Tagged ORF Clone

Tag: TurboGFP Symbol: CHMP3

Synonyms: CGI-149; NEDF; VPS24

Mammalian Cell Neomycin

Selection:

**Vector:** pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >RG231030 representing NM\_001193517
Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGGGGCTGTTTGGAAAGACCCAGGAGAAGCCGCCCAAAGAACTGGTCAATGAGTGGTCATTGAAGATAA GAAAGGAAATGAGAGTGTTGTTGACAGGCAAATAAGGGATATCCAAAGAAGAAGAAAAAAGTGAAACGATC TGTGAAAGATGCTGCCAAGAAGGCCAGAAGGGCCAGAAGGATGCTCTGCCAAGGAGATGATCAGGTCA AGGAAGGCCATGCAAAGTCTTGTGAAGATTCCAGAGATTCAGGCCACCATGAGGAGATTGTCCAAAGAAA TGATGAAGGCTGGGATCATAGAGGAGATTTAGAGGACACTTTTGAAAGCATGGACGATCAGGAAAAAT GGAGGAAGAAATGGAAATTGACAGAAATTCTCTTTGAAATTACAGCAGGGGCCTTGGGCAAAGCA CCCAGTAAAGTGACTGATGCCCTTCCAGAGCCAGAACCTCCAGGAGCGATGGCTGCCTCAGAGGATGAGG

AGGAGGAGGAAGAGGCTCTGGAGGCCATGCAGTCCCGGCTGGCCACACTCCGCAGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG231030 representing NM\_001193517

Red=Cloning site Green=Tags(s)

MGLFGKTQEKPPKELVNEWSLKIRKEMRVVDRQIRDIQREEEKVKRSVKDAAKKGQKDVCIVLAKEMIRS RKAMQSLVKIPEIQATMRELSKEMMKAGIIEEMLEDTFESMDDQEEMEEEAEMEIDRILFEITAGALGKA

 ${\tt PSKVTDALPEPEPPGAMAASEDEEEEEALEAMQSRLATLRS}$ 

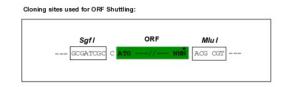
TRTRPLE - GFP Tag - V

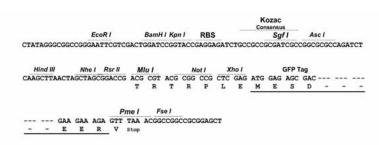
**Restriction Sites:** Sgfl-Mlul



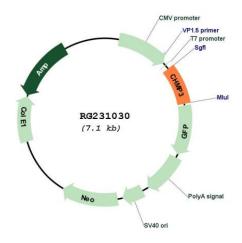


#### **Cloning Scheme:**





#### Plasmid Map:



**ACCN:** NM\_001193517

ORF Size: 546 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.



#### VPS24 (CHMP3) (NM\_001193517) Human Tagged ORF Clone - RG231030

**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:** <u>NM 001193517.2</u>

 RefSeq Size:
 3074 bp

 RefSeq ORF:
 549 bp

 Locus ID:
 51652

 UniProt ID:
 Q9Y3E7

 Cytogenetics:
 2p11.2

**Protein Pathways:** Endocytosis

**Gene Summary:** This gene encodes a protein that sorts transmembrane proteins into lysosomes/vacuoles via

the multivesicular body (MVB) pathway. This protein, along with other soluble coiled-coil containing proteins, forms part of the ESCRT-III protein complex that binds to the endosomal membrane and recruits additional cofactors for protein sorting into the MVB. This protein may also co-immunoprecipitate with a member of the IFG-binding protein superfamily. Alternative splicing results in multiple transcript variants. Read-through transcription also exists between this gene and the upstream ring finger protein 103 (RNF103) gene. [provided]

by RefSeq, Nov 2010]