OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RG202592

VPS24 (CHMP3) (NM_001005753) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	VPS24 (CHMP3) (NM_001005753) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CHMP3
Synonyms:	CGI-149; NEDF; VPS24
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG202592 representing NM_001005753 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGGCTGTTTGGAAAGACCCAGGAGAAGCCGCCCAAAGAACTGGTCAATGAGTGGTCATTGAAGATAA
GAAAGGAAATGAGAGTTGTTGACAGGCAAATAAGGGGATATCCAAAGAGAAGAAGAAAAAGTGAAACGATC
TGTGAAAGATGCTGCCAAGAAGGGCCAGAAGGATGTCTGCATAGTTCTGGCCAAGGAGATGATCAGGTCA
AGGAAGGCTGTGAGCAAGCTGTATGCATCCAAAGCACACATGAACTCAGTGCTCATGGGGATGAAGAACC
AGCTCGCGGTCTTGCGAGTGGCTGGTTCCCTGCAGAAGAGCACAGAAGTGATGAAGGCCATGCAAAGTCT
TGTGAAGATTCCAGAGATTCAGGCCACCATGAGGGAGTTGTCCAAAGAAATGATGAAGGCTGGGATCATA
GAGGAGATGTTAGAGGACACTTTTGAAAGCATGGACGATCAGGAAGAAATGGAGGAAGAAGCAGAAATGG
AAATTGACAGAATTCTCTTTGAAATTACAGCAGGGGCCTTGGGCAAAGCACCCAGTAAAGTGACTGATGC
CCTTCCAGAGCCAGAACCTCCAGGAGCGATGGCTGCCTCAGAGGATGAGGAGGAGGAGGAAGAGGCTCTG
GAGGCCATGCAGTCCCGGCTGGCCACACTCCGCAGC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG202592 representing NM_001005753
Red=Cloning site Green=Tags(s)

MGLFGKTQEKPPKELVNEWSLKIRKEMRVVDRQIRDIQREEEKVKRSVKDAAKKGQKDVCIVLAKEMIRS
RKAVSKLYASKAHMNSVLMGMKNQLAVLRVAGSLQKSTEVMKAMQSLVKIPEIQATMRELSKEMMKAGII
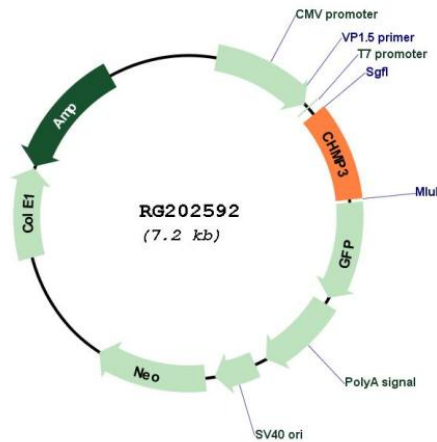EEMLEDTFESMDDQEEMEEEAEMEIDRILFEITAGALGKAPSKVTDALPEPEPPGAMAASEDEEEEEEAL
EAMQSRLATLRS

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Plasmid Map:

ACCN: NM_001005753

ORF Size: 468 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_001005753.1, NP_001005753.1
RefSeq Size:	3113 bp
RefSeq ORF:	471 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]