

Product datasheet for **RG209513**

CHMP1B (NM_020412) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: CHMP1B (NM_020412) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: CHMP1B
Synonyms: C10orf2; C18-ORF2; C18orf2; CHMP1.5; hVps46-2; Vps46-2; Vps46B
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG209513 representing NM_020412
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTCTAACATGGAGAAACACCTGTTCAACCTGAAGTTCGCGCCAAAGAACTGAGTAGGAGTGCCAAA
 AATGCGATAAGGAGGAAAAGGCCAAAAGGCCAAAATTAAGGCCATTCAGAAGGCCAACATGGAAGT
 TGCAGGATACACGCCAAAATGCCATCCGCCAGAAGAACCAGGCGGTGAATTTCTTGAGAATGAGTGCG
 CGAGTCGATGCAGTGGCTGCCAGGGTCCAGACGCGGTGACGATGGCAAGGTGACCAAGTCGATGGCTG
 GTGTGGTTAAGTCGATGGATGCGACATTGAAGACCATGAATCTGGAGAAGATTTCTGCTTTGATGGACAA
 ATTCGAGCACCAGTTTGAGACTCTGGACGTCAGACGCAGCAAAATGGAAGACACGATGAGCAGCAGCAGC
 ACGCTCACCCTCCAGAACCAAGTGGATATGCTGCTCCAGGAAATGGCAGATGAGGCGGGCCTCGACC
 TCAACATGGAGCTGCCGAGGGCCAGACCGGCTCCGTGGGCACGAGCGTGGCTTCGGCGGAGCAGGATGA
 ACTGTCTCAGAGACTGGCCCGCTTCGGGATCAAGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG209513 representing NM_020412
 Red=Cloning site Green=Tags(s)

MSNMEKHLFNLKFAAKELSRSAKKCDKEEKAIEKAIKKAIQKGNMEVARIHAENAIRQKNQAVNFLRMSA
 RVDAAVARVQTAVTMGKVTSMAGVVKSMDATLKTMLNLEKISALMDKFEHQFETLDVQTQQMEDTMSSTT
 TLTPQNVQDMLLQEMADEAGLDLNMELPQGQTSVSGTGSVASAEQDELSQLRLARLRDQV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



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Cloning Scheme:


ACCN: NM_020412

ORF Size: 597 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_020412.5](#)

RefSeq Size: 1290 bp

RefSeq ORF: 600 bp

Locus ID: 57132

UniProt ID: [Q7LBR1](#)

Cytogenetics: 18p11.21

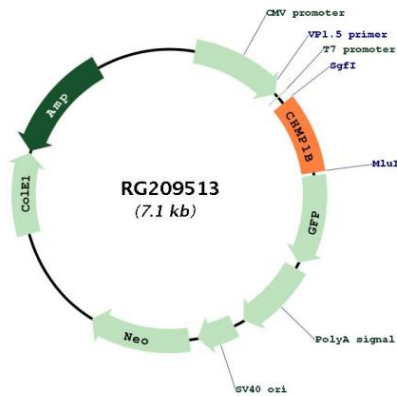
Domains: DUF279

Protein Families: Druggable Genome

Protein Pathways: Endocytosis

Gene Summary: CHMP1B belongs to the chromatin-modifying protein/charged multivesicular body protein (CHMP) family. These proteins are components of ESCRT-III (endosomal sorting complex required for transport III), a complex involved in degradation of surface receptor proteins and formation of endocytic multivesicular bodies (MVBs). Some CHMPs have both nuclear and cytoplasmic/vesicular distributions, and one such CHMP, CHMP1A (MIM 164010), is required for both MVB formation and regulation of cell cycle progression (Tsang et al., 2006 [PubMed 16730941]).[supplied by OMIM, Mar 2008]

Product images:



Circular map for RG209513