

Product datasheet for **RG207637**

CHMP4B (NM_176812) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CHMP4B (NM_176812) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CHMP4B
Synonyms:	C20orf178; CHMP4A; CTPP3; CTRCT31; dj553F4.4; Shax1; SNF7; SNF7-2; Vps32-2; VPS32B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG207637 representing NM_176812 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCGGTGTTTCGGGAAGCTGTTTCGGGGCTGGAGGGGTAAAGCCGGCAAGGGCGGCCGACCCCCAGG
AGGCCATCCAGCGGCTGCGGGACACGGAAGAGATGTTAAGCAAGAAACAGGAGTTCCTGGAGAAGAAAAT
CGAGCAGGAGCTGACGGCCGCAAGAAGCACGGCACAAAAACAAGCGCGGCCCTCCAGGCACTGAAG
CGTAAGAAGAGGTATGAGAAGCAGCTGGCGCAGATCGACGGCACATTATCAACCATCGAGTTCAGCGGG
AGGCCCTGGAGAATGCCAACCAACACCGAGGTGCTCAAGAACATGGGCTATGCCGCAAGGCCATGAA
GGCGGCCATGACAACATGGACATCGATAAAGTTGATGAGTTAATGCAGGACATTGCTGACCAGCAAGAA
CTTGACAGAGGAGATTTCAACAGCAATTTGAAACCTGTAGGGTTTGGAGAAGAGTTTGACAGGATGAGC
TCATGGCGGAATTAGAAGAACTAGAACAGGAGGAAGTAGACAAGAATTTGCTGGAATCAGTGGACCCGA
AACAGTCCCTCTACAAAATGTTCCCTCTATAGCCCTACCATCAAAACCCGCAAGAAGAAAGAGAGGAG
GACGACGACATGAAGGAATTGGAGAAGTGGGCTGGATCCATG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG207637 representing NM_176812
 Red=Cloning site Green=Tags(s)

MSVFGKLFGAGGGKAGKGGPTPQEAIQRLRDTEMLSKKQEFLEKKIEQELTAAKKGTKNKRAALQALK
 RKKRYEKQLAQIDGTLSTIEFQREALENANTNTEVLKNGMYAAKAMKAAHDNMDIDKVDLMQDIADQQE
 LAEEISTAISKPVGFGEFFDEDELMAELEEELEQEELDKNLLIISGPETVPLPNVPSIALPSKPAKKKEEE
 DDDMKELNHWAGSM

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_176812

ORF Size: 672 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_176812.5](#)

RefSeq Size: 1685 bp

RefSeq ORF: 675 bp

Locus ID: 128866

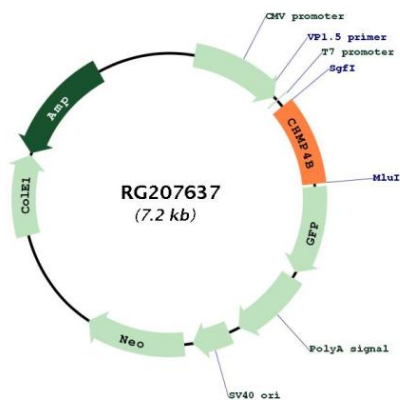
UniProt ID: [Q9H444](#)

Cytogenetics: 20q11.22

Protein Pathways: Endocytosis

Gene Summary: This gene encodes a member of the chromatin-modifying protein/charged multivesicular body protein (CHMP) protein family. The protein is part of the endosomal sorting complex required for transport (ESCRT) complex III (ESCRT-III), which functions in the sorting of endocytosed cell-surface receptors into multivesicular endosomes. The ESCRT machinery also functions in the final abscission stage of cytokinesis and in the budding of enveloped viruses such as HIV-1. The three proteins of the CHMP4 subfamily interact with programmed cell death 6 interacting protein (PDCD6IP, also known as ALIX), which also functions in the ESCRT pathway. The CHMP4 proteins assemble into membrane-attached 5-nm filaments that form circular scaffolds and promote or stabilize outward budding. These polymers are proposed to help generate the luminal vesicles of multivesicular bodies. Mutations in this gene result in autosomal dominant posterior polar cataracts.[provided by RefSeq, Oct 2009]

Product images:



Circular map for RG207637