

Product datasheet for **SC106955**

CHMP4B (NM_176812) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CHMP4B (NM_176812) Human Untagged Clone
Tag:	Tag Free
Symbol:	CHMP4B
Synonyms:	C20orf178; CHMP4A; CTPP3; CTRCT31; dj553F4.4; Shax1; SNF7; SNF7-2; Vps32-2; VPS32B
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC106955 sequence for NM_176812 edited (data generated by NextGen Sequencing)

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ATGTCGGTGTTCGGGAAGCTGTTTCGGGGCTGGAGGGGTAAAGCCGGCAAGGGCGGCCCG
ACCCCCAGGAGGCCATCCAGCGGCTGCGGGACACGGAAGAGATGTTAAGCAAGAAACAG
GAGTTCCTGGAGAAGAAAATCGAGCAGGAGCTGACGGCCGCAAGAAGCACGGCACCAAAA
AACAAAGCGCGCGGCCCTCCAGGCACTGAAGCGTAAGAAGAGGTATGAGAAGCAGCTGGCG
CAGATCGACGGCACATTATCAACCATCGAGTTCAGCGGGAGGCCCTGGAGAATGCCAAC
ACCAACACCGAGGTGCTCAAGAACATGGGCTATGCCGCCAAGGCCATGAAGGCGGCCAT
GACAACATGGACATCGATAAAGTTGATGAGTTAATGCAGGACATTGCTGACCAGCAAGAA
CTTGCAGAGGAGATTTCAACAGCAATTTGAAACCTGTAGGGTTTGGAGAAGAGTTTGAC
GAGGATGAGCTCATGGCGGAATTAAGAAGACTAGAACAGGAGGAACTAGACAAGAATTTG
CTGGAAATCAGTGGACCCGAAACAGTCCCTCTACCAAATGTTCCCTCTATAGCCCTACCA
TCAAAACCCGCCAAGAAGAAAGAAGAGGAGGACGACATGAAGGAATTGGAGAAGTGG
GCTGGATCCATGTAA
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Clone variation with respect to NM_176812.4



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_176812 unedited</p> <pre>CGACTCACTATAGGCGGCCGGAATTCGGCACGAGGCGGAGGAGGCGCTGCGGCGGCAG GGAGCGGCGGGACTGGGAGCGGGCGCCGGAGCCGACCCGAGCCGAGCCGAGCCGAGCCGA GCCGGAGCGGGCGGCGAAGGCCGGCGGCGGAGCAGCAACCATGTCGGTGTTCGGGAAGC TGTTCCGGCTGGAGGGGTAAAGGCCGGCAAGGGCGGCCGACCCCCAGGAGGCCATCCA CGAGCAGGAGCTGACGGCCGCAAGAAGCACGGCACAAAAACAAGCGCGGCCCTCCA GGCACTGAAGCGTAAGAAGAGGTATGAGAAGCAGCTGGCGCAGATCGACGGCACATTATC AACCATCGAGTTCACGGGGAGGCCCTGGAGAATGCCAACACCAACACCGAGGTGCTCAA GAACATGGGCTATGCCGCCAAGGCCATGAAGGCGGCCATGACAACATGGACATCGATAA AGTTGATGAGTTAATGCAGGACATTGCTGACCAGCAAGAAGTTCNAGAGGAGATTTCAA CAGCAATTTGAACTGTNAGGGGTTTGGAGAAAAGAGTTTGACGAAGGATGAAGCTCAT GGCANNNGATTAGAAGAACTAGAACAGGGAGGAACTAGACAAGAATTTGCTGGAAATCAG TGGACCCGAAACAGTCCCTCTACCANATGTTNCCTCTATAGCCCTACCATCAAACCCGNC AGAGAANNAGNAGGAGGACGACACNTGAAGGANTGGNAGACTTGGNGCTGATCATGTNA AAGGGGGCCAGCGCTGGCTGGCCAAACGACAGTGGGGTGGCTGGCACGAGCAGCGTTGC CTTTGGGGGCGAGCACAATGGTGCCAAACAGGTCTCTGTTTCACTCTCTCT</pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_176812
Insert Size:	1550 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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:	<ol style="list-style-type: none"> 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_176812.3 , NP_789782.1
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]