

Product datasheet for **MC204657**

Chmp3 (NM_025783) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Chmp3 (NM_025783) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Chmp3
Synonyms:	25.1; 4921505F14Rik; 9130011K15Rik; CGI-49; D6Ertd286e; NEDF; Vps24
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC049964
 CCTGCCTGGGCGCAGGGAACGGAAAGTCGGAAGGGGTAAGAGGAGTTCAGTTCATCATGGGACTCTTTGG
 AAAAACCCAGGAGAAGCCTCCCAAAGAGCTGGTTAATGAATGGTCACTGAAGATCAGAAAGGAAATGAGA
 GTTGTGACAGGCAAATAAGAGATATCCAAAGAGAAGAAGAGAAAAGTAAAACGGTCTGTGAAAGATGCAG
 CCAAGAAGGGCCAAAAGGAAGTCTGTGTGGTCTGGCCAAGGAGATGATCAGGTCAAGGAAAGCCGTGAG
 CAAGCTCTATGCCTCAAAGCACACATGAACTCTGTGCTCATGGGCATGAAGAACCAACTCGCGGTCTCG
 CGAGTAGCTGGTCTCTGCAGAAGAGCACAGAAGTGATGAAGGCAATGCAGAGTCTTGTGAAGATCCCAG
 AAATCCAGGCCACCATGCGGGAGCTGTCCAAAGAGATGATGAAGGCTGGAATCATAGAGGAGATGTTAGA
 GGATACATTTGAAAGCATGGATGATCAAGAAGAAATGGAAGAAGCAGCTGAGATGGAGATTGACAGAATC
 CTCTTTGAAATCACAGCAGGAGCCTTGGGCAAAGCACCCAGTAAAGTAACCGATGCCCTTCTGAGCCTG
 AACCCGCAGGAGCGATGGCTGCCCGAAGAGGGAGAAGAGGAAGAAGATGAAGAGGACCTGGAGGCTAT
 GCAGTCACGGCTGGCCACACTCAGAAGCTAGGGCCACCCAGTTGGGGTCTCAACTCTCTGGTGTCTCC
 TCTAGGTGTATCTGGCCTCTGAGGAGTACCATTCTTGTATCTCTTGCCTACACCTCTGCTGTGAA
 GCATTACATTTGGAGAGGGTCTGTGCTGGTATATCTTACAGATCTGCAGAGGATTAAGGATTGCTTTT
 ATGAAGGTGGTGAATCAAATGTATTATTTTCAGGAGCATAAATAGCAGAAGTATCTTCTTGGGGGAGG
 GCAAAGAAATCCATTTTCTCATGAAGCAATTTTGAAGAAGTAGATTGAATGATGAGGACTCTATATTTG
 GTGTGATGTGTAATAATATATTAATGGATGTCAATAAACTTCTGCTTTAGCTCTTGGTCTCATTGTA
 AATGTCACATGCAATGAACTCAAGATATTAATCTCCAGATTGTCTCAGTGTGGCCTTGGAAAGAGGAC
 ATGCTATCTCAAAGCATCGGGACATGGGAGCTTAGCAGAAGTACCTTCAGCTCCGGGGCCGCTGGTCTG
 CTCTTCACAGGCTGGTTGTGGGGGCCACTCTTGTGCATTTTGTCAATTTGTCTAACCTTCGGGTAAACGTG
 CTGTGTTGACTGAATGACCATATCATACACTGGTGTGTACAAGGGAGTTTTTACAGCTGGTAGGCATTCT
 TCCCCACTGCAAGTGAATGCAGGACAGTTAGATCTGGGATCAGGACTCTTGCAGTCCATCCCTGCTTGG
 AGCTAAGTGTCTTGTACCCAGGGACGTAGCCTTAACCATGAGCAGGAAGAGCTAACCCAGGAAGAGTTTG
 GATTATGCAGTGAAACACACACAGCAGAGCATGCTTTAGATGCATTGAGAAATAGCCCAGCAGTAGCACT
 GTGTGGAGCAGTTTAAAAGCTTTCTGGTATGCATGATCTTACAAATGAGGACAGCTGTATCTGAAGT
 CACAAACCCTAAAGTACAATAGCCAGTATCCGCCAGTATTGTACAGAATGGCTTTGTTACCCAAAACACA
 ACCCATGTGCTGTTTATTGCTTCTCTAATCCCTTGGCACCCACTGACCCGGTGTGCTCCATGGGCT
 TTCCTTTCCAGCCTTTCAGTATGTCTTCCCTCACGTGGTATGATGCATTTACGTTCCCTCCGTGGATTCA
 TGACTTGACTGTTACGCCCTTCTATTGAGCAGCGTTCATTTTCTAGCTGTACCACAGCTTGTCTTGAA
 GGCCACCTGGACTGCTTCTGAGTTTGGGAGTTTGAAGCAATGTCTGTAGCAGGTTTCCCTGTGTGTTTTA
 ATTCCTCTGGATACCAGAGAGCTCAACCCTGGGATCATGTGGTCAGCACAACCTGTGCTGTAAGGTA
 CCAGCCGTGCAGAGCACGTACTGTCCCGTCTCAGGAGGAAGAGTTCTGCCTGCCATCCTGTGGCTTTGG
 CAGAATTTGTCATGAGGGATTTGTGTTGAAGTACCCTGGGCATGTTTTATACTTGCCTTCTGTATCT
 TGTTTTGAAATGTTGACATAGTGGCCTTGAACCTCATGACCTGTCTGCTCTACCACCACACTGAGCTTGGC
 GCCTGGATTTCTCGTTGTTGGTGTGTTGTTCAATTTATAACCTGGATTGTTTGTGTTTCTGATTATTCAAG
 TTTAAGGACCTCTTACAGATTTTGAACCAATCATCTATCAGATTATATCCTATTCTGTCTATTCTCT
 CATTGTTGACTGTTTTCAAAGCTGAAGGTTTCTTTTTACTTTTAAATAAAACCCCTGCTTCTCAAAAAA
 AA

- Restriction Sites:** RsrII-NotI
- ACCN:** NM_025783
- Insert Size:** 675 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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:	BC049964 , AAH49964
RefSeq Size:	2573 bp
RefSeq ORF:	675 bp
Locus ID:	66700
UniProt ID:	Q9CQ10
Cytogenetics:	6 32.17 cM
Gene Summary:	<p>Probable core component of the endosomal sorting required for transport complex III (ESCRT-III) which is involved in multivesicular bodies (MVBs) formation and sorting of endosomal cargo proteins into MVBs. MVBs contain intraluminal vesicles (ILVs) that are generated by invagination and scission from the limiting membrane of the endosome and mostly are delivered to lysosomes enabling degradation of membrane proteins, such as stimulated growth factor receptors, lysosomal enzymes and lipids. The MVB pathway appears to require the sequential function of ESCRT-O, -I, -II and -III complexes. ESCRT-III proteins mostly dissociate from the invaginating membrane before the ILV is released. The ESCRT machinery also functions in topologically equivalent membrane fission events, such as the terminal stages of cytokinesis. ESCRT-III proteins are believed to mediate the necessary vesicle extrusion and/or membrane fission activities, possibly in conjunction with the AAA ATPase VPS4. Selectively binds to phosphatidylinositol 3,5-bisphosphate PtdIns(3,5)P2 and PtdIns(3,4)P2 in preference to other phosphoinositides tested. Involved in late stages of cytokinesis. Plays a role in endosomal sorting/trafficking of EGF receptor (By similarity). [UniProtKB/Swiss-Prot Function]</p>