

Product datasheet for **MC205612**

Chmp1a (NM_145606) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Chmp1a (NM_145606) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Chmp1a
Synonyms:	2900018H07Rik; Pcoln3
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC010524
 GAGACAGCGGGTCCGTAACATCGCGTCCCCTGCGCCGCCCGAGGGCTGTGCTAGCCCGACCGGCCATGG
 ACGATACCCTGTTCCAGTTGAAGTTCACAGCGAAGCAGCTGGAGAAAAGTGGCCAAGAAGGCCGAGAAGGA
 CTCCAAGGCTGAGCAGGCCAAAGTGAAGAAGGCCCTTCAGCAGAAAAATGTGGAGTGTGCCCGGGTGTAT
 GCTGAAAATGCCATCCGCAAGAAGAATGAAGGTGTAATTTGGCTCCGAATGGCCTCCCCTGTGGACGCAG
 TGGCCTCCAAGGTGCAGACAGCTGTGACCATGAAGGGGGTGACCAAGAATATGGCCCAGGTGACCAAGGC
 TCTGGACAAGGCCCTGAGCGCCATGGACCTTTCAGAAGGTGTCTGCAGTGTGGACAGGTTTGAGCAGCAG
 GTGCAGAACCTGGATGTGCACACATCGGTAATGGAGGATTCCGTGAGCTCTGCCACCACGCTGACCACGC
 CTCAGGAGCAGGTCGACAGCCTCATTGTCCAGATAGCTGAGGAAAACGGCCTGGAGGTCCTAGACCAGCT
 CAGCCAGCTGCCAGAGGGAGCGTCTGCTGTGGCGAGAGCTCTGTGCGCAGCCAGGAGGACCAGCTGTCC
 CGGAGGTTGGCTGCCCTGAGGAATTAGCACGTCCGTGGCAGGTGCTGTCTCCCTTGCCTGTGATGTTCT
 GAGGCTTCTGCCAACTGCGCTTCACTTTCTCCAACCCTTCGTAGCTGCCTGGGCTCTTTTCCAACCTG
 TCAGGCTGGCGCCTTAGAACTGAGCCTTAGGTTGGGCAGCGGGTCTGTCTCTGGTATTGAATTTGCACA
 AGTGTGTGGTGACATATGTGCTTGTGGCCACAGCTGGAGGATGGCAAGCTTTCTGTTGCCTCTGCCTA
 TGTGGAGTTGACAGGGTTTGGCCTGCAGATGTGTGGACTTGAGCCAGTGCTTTGGGGCCTTGAGACT
 CCAGCGACTGCACACCCGCTCTGTGCTGCGGCCAGGGAGGGTGAGAACCATCGCTCCTTTGCCAGGTAAC
 TCTTGGGAGCCTCTCCCCCTCTGCAGCGAGGAAATCCCAGTGTGTGACAGCCCTTAAGGTTCTGTGGA
 CTTTGTGTACCAAGGTGTCCAGTGCCACCAACTGACCTGGGGCCTTTACAAATGGTTGCTCTCCTCCA
 TCTTCCCAGGGCTGCGGTCTGGTGTCTACTGCCGGCCGGCTGAGTCTGCGTGGGCTTTCTGTCTCTCAG
 CTCCCTTTCCAGCCACAGGGACAGAAGTACCATCCACTTTCAAGTCCAGCTCCTTCTAAGAGATTCT
 TCCACCGTACTCTGCAGCTGCCTCTGGAAGAAGTGGGCTGTGGGGCTGAGCTGTCTGCTTGTGCTG
 ACAGACTCCTAGTGTGAGCTCCCAGGCCGCTTAGAGCTGCTCATTCTGAGTACTGGCTCCCTGCCC
 TTTTAGACAAAGGCTGCTGCTTTTTCAGCCTTCTCCAAGGGAGAGCCTGGCTGGCTAACAGAGGAGCCTGA
 GTCAGTACATCTGGCAGCTGGCAGCAAGCTCTATCCCTCCACAGTGAGGAAGCTGGCAGCGAGCAGG
 TAGACCTGGAGACTGCACGGCTGCTGATTGGTCTTCTATCTCCTGAAGTTTACTCATGTTCTTAAAAC
 CTGGTGATTTTGTCTTTTGGCAACGTAGAAAAGCACAGTGGACGGGTTGTGTTTGTCCCAGCCCTCTCTG
 TAGGCTGAGCAGTGCAGTGGCGCCACAGGTTTACACACAAGTTTGGTTTGGTTTCTTCTGTTCTGCACT
 TTGGAGTCCCTGGGATTTCCACATTACAAGTTGATGTTATAGGTGGGGCTGGAATTTGTTGCCCTGCGTG
 TGGGGACCAAGGTACAATCTAACCATGGGCCCCACAAGGCTTCTGAAATCAACTTAAATGTTAGGTGT
 TGAGAGTAGCTGCAGTCTCGGGATAACTTGTGAGTTCCCTGGGTCTGGAGGGTGCAGGGTTTGTGGAAC
 AGTAGTAGGGATGGGGAGCTGGGCTGGGTTTCATCAGAATGGGCGTGTCTGCCTTCACAGTGTCTCCTAA
 GTAATAAAGGGATTGGTGAAGAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI

ACCN: NM_145606

Insert Size: 591 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:

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: [BC010524](#), [AAH10524](#)

RefSeq Size: 2137 bp

RefSeq ORF: 591 bp

Locus ID: 234852

UniProt ID: [Q921W0](#)

Cytogenetics: 8 E1

Gene Summary: Probable peripherally associated 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. Involved in cytokinesis. Involved in recruiting VPS4A and/or VPS4B to the midbody of dividing cells. May also be involved in chromosome condensation. Targets the Polycomb group (PcG) protein BMI1/PCGF4 to regions of condensed chromatin. May play a role in stable cell cycle progression and in PcG gene silencing (By similarity).[UniProtKB/Swiss-Prot Function]