

Product datasheet for **MR202607**

Chmp4b (NM_029362) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Chmp4b (NM_029362) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Chmp4b
Synonyms: 2010012F05Rik; C76846; Snf7-2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR202607 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCGGTGTTCGGGAAGCTGTTTCGGGGCTGGAGGGGTAAAGCGGGCAAGGGCGGCCGACCCCCAGG
AGGCCATCCAGCGGCTTCGGGACACGGAGGAGATGTTAAGCAAGAAGCAGGAGTTCCTGGAGAAGAAAAT
CGAACAGGAGCTGACGGCTGCCAAGAAGCACGGCACAAAAATAAGCGCGCCGCCCTGCAGGCTCTGAAG
CGCAAGAAGAGGTATGAGAAGCAGCTGGCACAAATTGATGGCACCCCTGTCAACCATCGAGTTCAGCGGG
AGGCCCTAGAGAACGCCAACACACCGAGGTGCTCAAGAACATGGGCTATGCCGCCAAGGCCATGAA
GGCTGCCACGACAACATGGACATTGATAAGGTGGATGAGTTAATGCAGGACATTGCTGACCAGCAAGAA
CTTGACAGAGGAGATTTCCACAGCTATCTCCAAACCTGTGGGCTTTGGAGAAGAGTTTCGACAGGATGAGC
TCATGGCAGAGTTGGAGGAACCTGAACAAGAGGAGTTGGACAAGAATTTGTTGGAGATCAGTGGGCCCGA
AACAGTCCCTCTACAAATGTCCCTCCGTAGCCCTACCATCCAAACCCGCCAAGAAGAAGGAGAGGAA
GATGACGACATGAAGGAATTGGAGAACTGGGCCGGATCCATG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR202607 protein sequence
 Red=Cloning site Green=Tags(s)

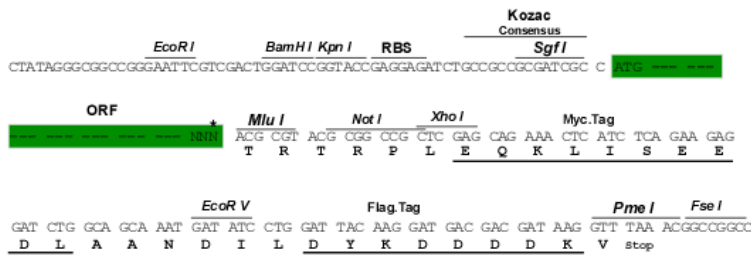
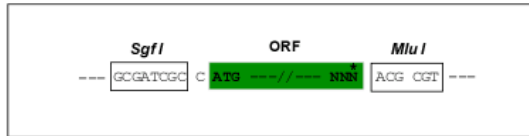
MSVFGKLFGAGGGKAGKGGPTPQEAIQRLRDTEMLSKKQEFLEKKIEQELTAAKKGTKNKRAALQALK
 RKKRYEKQLAQIDGTLSTIEFQREALENANTNTEVLKNMGYAAKAMKAAHDNMDIDKVDLMQDIADQQE
 LAEEISTAISKPVGFGEFFDEDELMAEELEELEQEELDKNLLIISGPETVPLPNVPSVALPSKPAKKKEEE
 DDDMKELLENWAGSM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_029362

ORF Size: 675 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_029362.2](#)

RefSeq Size: 1607 bp

RefSeq ORF: 675 bp

Locus ID: 75608

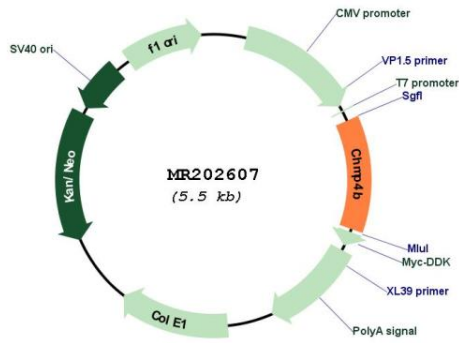
UniProt ID: [Q9D8B3](#)

Cytogenetics: 2 H1

MW: 24.9 kDa

Gene Summary: 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. Together with SPAST, the ESCRT-III complex promotes nuclear envelope sealing and mitotic spindle disassembly during late anaphase. Plays a role in the endosomal sorting pathway. ESCRT-III proteins are believed to mediate the necessary vesicle extrusion and/or membrane fission activities, possibly in conjunction with the AAA ATPase VPS4. When overexpressed, membrane-assembled circular arrays of CHMP4B filaments can promote or stabilize negative curvature and outward budding. CHMP4A/B/C are required for the exosomal release of SDCBP, CD63 and syndecan.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR202607