

## Product datasheet for MC212494

### Chmp6 (NM\_001085498) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Chmp6 (NM_001085498) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Chmp6
Synonyms:	2400004G01Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC212494 representing NM_001085498 Red=Cloning site Blue=ORF Orange=Stop codon

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGGCAACCTGTTGGCCGCAAGAAGCAGAGCCGAGTCACCGAACAGGACAGGGCCATCCTGCAACTGA  
 AGCAGCAGAGGGACAACTGAGGCAGTACCAGAAGAGGGTCACGCAGCAGCTGGAGAGGGAGCGGGCCCT  
 GGCCAGGCAGCTGCTGCGGGATGGCAGGAAAGAACGAGCCAAGCTGCTGCTCAAGAAGAAGAGGTACCGG  
 GAGCAACTGCTCGATAGGACAGAAAACCAGATCAGCAGCCTGGAAGCCATGGTTCAGAGCATCGAGTTCA  
 CGCAGATCGAGATGAAGGTGATGGAGGGGCTACAGGTGGGGAACGAATGTCTGAATAAGATGCACCAGGT  
 GATGTCCATAGAGGAGGTGGAGAGGATCCTGGACGAGACCCAGGAGGCAGTGGAGTACCAGCGGCAAATT  
 GATGAGCTGCTGGCCGGAACCTTACCCAGGAGGATGAGGACGCCATCCTGGAAGAGCTGAATGCAATCA  
 CTCAGGAACAAATGGAGTTACCAGAGGTTCCGTCAGAGCCGCTCCCTGACCGAAACCCAGAAGCCCTGC  
 CAAGGCCAGATCCAGGCAGGCAGAGCTGGTGGCGGCTTCAT**AA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-MluI
ACCN:	NM_001085498
Insert Size:	603 bp


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<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<u>NM_001085498.2, NP_001078967.1</u>
<b>RefSeq Size:</b>	1561 bp
<b>RefSeq ORF:</b>	603 bp
<b>Locus ID:</b>	208092
<b>UniProt ID:</b>	<u>P0C0A3</u>
<b>Cytogenetics:</b>	11 E2
<b>Gene Summary:</b>	<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. In the ESCRT-III complex, it probably serves as an acceptor for the ESCRT-II complex on endosomal membranes (By similarity).[UniProtKB/Swiss-Prot Function]</p>