

Product datasheet for **RN203834**

Chmp5 (NM_001025410) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Chmp5 (NM_001025410) Rat Untagged Clone
Tag: Tag Free
Symbol: Chmp5
Synonyms: RGD1305968
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >RN203834 representing NM_001025410
Red=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGAACCGATTCTTCGAAAAGCGAAACCAAGGCTCCGCCACCTAGCCTGACTGACTGCATTGGGACGG
TGGATAGCAGGGCAGAATCCATTGACAAAAGATTTCCCGTTGGATGCTGAAGTGGTAAATATAAGGA
CCAAATCAAGAAGATGAGAGAGGGTCCTGCTAAGAACATGGTCAAACAGAAAGCCCTGAGGGTTTTAAAG
CAAAAACGGATGTATGAGCAGCAGCGAGACAACCTTGCCCAACAGTCCTTTAACATGGAGCAAGCTAATT
ACACCATCCAGTCACTGAAGGATACAAAACCACGGTTGATGCAATGAAATTGGGAGTAAAGGAAATGAA
GAAGGCTTACAAGGAAGTAAAAATTGACCAGATTGAGGATTTACAAGACCAGTTGGAAGACATGATGGAA
GATGCAATGAGATCCAGGAGGCCCTGGGCCGAGCTACGGCACCCAGAACTGGATGAGGACGACCTGG
AAGCAGAGTTGGATGCGCTGGGCGATGAGCTTCTGGCTGATGAGGACAGCTTTACTTGGACGAAGCAGC
TTCTGCACCGCAATTCAGAGGGCGTTCCCCTGACACAAAAACAAGGATGGAGTGCTGGTGGATGAA
TTTGGACTGCCACAGATTCAGCTTCG**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001025410
Insert Size: 660 bp



[View online »](#)

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:	<u>NM_001025410.1</u> , <u>NP_001020581.1</u>
RefSeq Size:	1355 bp
RefSeq ORF:	660 bp
Locus ID:	297995
UniProt ID:	<u>Q4QQV8</u>
Cytogenetics:	5q22
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 (By similarity).[UniProtKB/Swiss-Prot Function]