Product datasheet for MR201926

Chmp1a (NM_145606) Mouse Tagged ORF Clone

Product data:

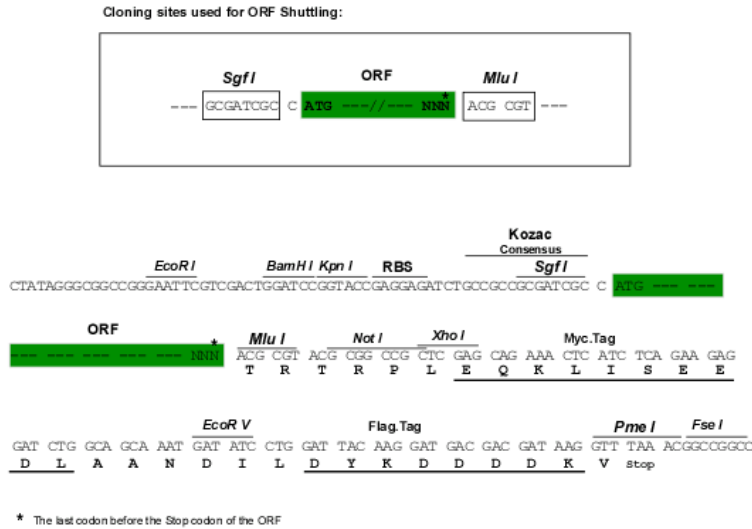|	
Product Type:	Expression Plasmids
Product Name:	Chmp1a (NM_145606) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Chmp1a
Synonyms:	2900018H07Rik; Pcoln3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR201926 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGACGATACCCTGTTCCAGTTGAAGTTCACAGCGAAGCAGCTGGAGAAACTGGCCAAGAAGGCCGAGA AGGACTCCAAGGCTGAGCAGGCCAAAGTGAAGAAGGCCCTTCAGCAGAAAAATGTGGAGTGTGCCCGGGT GTATGCTGAAAATGCCATCCGCAAGAAGAATGAAGGTGTAAATTGGCTCCGAATGGCCTCCCGTGTGGAC GCAGTGGCCTCCAAGGTGCAGACAGCTGTGACCATGAAGGGGGGTGACCAAGAATATGGCCCAGGTGACCA AGGCTCTGGACAAGGCCCTGAGCGCCATGGACCTTCAGAAGGTGTCTGCAGTGATGGACAGGTTTGAGCA GCAGGTGCAGAACCTGGATGTGCACACATCGGTAATGGAGGATTCCGTGAGCTCTGCCACCACGCTGACC ACGCCTCAGGAGCAGGTCGACAGCCTCATTGTCCAGATAGCTGAGGAAAACGGCCTGGAGGTCCTAGACC AGCTCAGCCAGCTGCCAGAGGGAGCGTCTGCTGTGGGCGAGAGCTCTGTGCGCAGCCAGGAGGACCAGCT GTCCCGGAGGTTGGCTGCCCTGAGGAAT ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA
Protein Sequence:	>MR201926 protein sequence Red=Cloning site Green=Tags(s) MDDTLFQLKFTAKQLEKLAKKAEKDSKAEQAKVKKALQQKNVECARVYAENAIRKKNEGVNWLRMASRVD AVASKVQTAVTMKGVTKNMAQVTKALDKALSAMDLQKVSAVMDRFEQQVQNLDVHTSVMEDSVSSATTLT TPQEQVDSLIVQIAEENGLEVLDQLSQLPEGASAVGESSVRSQEDQLSRRLAALRN TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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ORIGENE

Restriction Sites:	SgfI-MluI

Cloning Scheme:

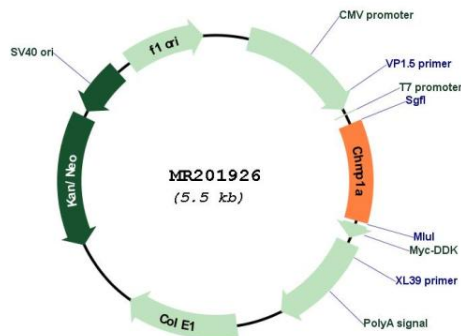|	
ACCN:	NM_145606
ORF Size:	591 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its 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_145606.3
RefSeq Size:	2188 bp
RefSeq ORF:	591 bp
Locus ID:	234852
UniProt ID:	Q921W0

Cytogenetics:	8 E1
MW:	21.6 kDa
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]

Product images:

Circular map for MR201926