

Product datasheet for **SC315983**

CHMP1A (NM_001083314) Human Untagged Clone

Product data:

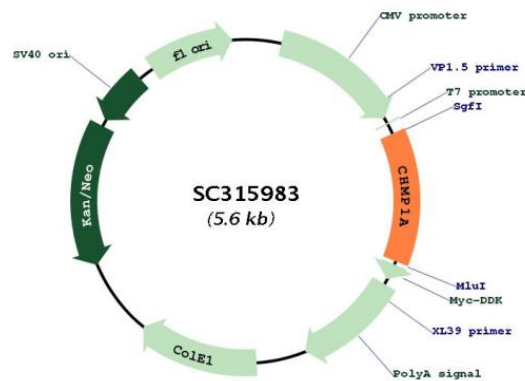
Product Type:	Expression Plasmids
Product Name:	CHMP1A (NM_001083314) Human Untagged Clone
Tag:	Tag Free
Symbol:	CHMP1A
Synonyms:	CHMP1; PCH8; PCOLN3; PRSM1; VPS46-1; VPS46A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC315983 representing NM_001083314. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGACGTTACGGCGAAGCAGCTGGAGAAGCTGGCCAAGAAGGCGGAGAAGGACTCCAAGGCGGAGCA
GGCCAAGTGAAGAAGGCCCTTCTGCAGAAAAATGTAGAGTGTGCCCGTGTGTATGCCGAGAACGCCAT
CCGCAAGAAGAACGAAGGTGTGAAGTGGCTTCGGATGGCGTCCCGCGTAGACGCAGTGGCCTCCAAGGT
GCAGACAGCTGTGACTATGAAGGGGTGACCAAGAATATGGCCCAGGTGACCAAAGCCCTGGACAAGGC
CCTGAGCACCATGGACCTGCAGAAGGTCTCCTCAGTGATGGACAGGTTGAGCAGCAGGTGCAGAACCT
GGACGTCCATACATCGGTGATGGAGGACTCCATGAGCTCGGCCACCACCCTGACCACGCCGAGGAGCA
GGTGGACAGCCTCATCATGCAGATCGCCGAGGAGAATGGCTGGAGGTGCTGGACCAGCTCAGCCAGCT
GCCCGAGGGCGCCTCTGCCGTGGGCGAGAGCTCTGTGCGCAGCCAGGAGGACCAGCTGTCACGGAGGTT
GGCCGCTTGAGGAAGTACGCCGTGCCCGCCGGTGTGCACCGCCTCTGCCCGTGTGTGCTGGAAGGC
TCCTGTCTCTCCCACCGCTCTTGCCTTTGTGCTGACCCCGGGGCTGCGGCCGGCAGCCACTCTG
CGTCTCACCTGCCAGGCTGCGTGGCCTTAG
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: Sgfl-MluI



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Plasmid Map:


ACCN: NM_001083314

Insert Size: 723 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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001083314.3](https://www.ncbi.nlm.nih.gov/RefSeq/record/NM_001083314.3)

RefSeq Size: 2408 bp

RefSeq ORF: 723 bp

Locus ID: 5119

Cytogenetics: 16q24.3

Protein Families: Druggable Genome, Transcription Factors

MW: 24.7 kDa

Gene Summary: This gene encodes a member of the CHMP/Chmp family of proteins which are involved in multivesicular body sorting of proteins to the interiors of lysosomes. The initial prediction of the protein sequence encoded by this gene suggested that the encoded protein was a metalloproteinase. The nomenclature has been updated recently to reflect the correct biological function of this encoded protein. Several transcripts encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2012]
Transcript Variant: This variant (1) lacks an alternate exon in the 5' coding region that results in a frameshift in subsequent regions of the CDS, compared to variant 2. The encoded isoform (1) shares the first two residues but is otherwise distinct and longer than isoform 2. Translation of this isoform is assumed due to use of the expected start codon, which has a strong Kozak signal.