

## Product datasheet for **SC115119**

### CHMP4A (NM\_014169) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CHMP4A (NM_014169) Human Untagged Clone
Tag:	Tag Free
Symbol:	CHMP4A
Synonyms:	C14orf123; CHMP4; CHMP4B; HSPC134; SHAX2; SNF7; SNF7-1; VPS32-1; VPS32A
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_014169, the custom clone sequence may differ by one or more nucleotides

```
ATGTCGCGGCGGCGCCCTGAGGACGGATTGGGCAAGGCTGGTCCCTGTGTGATGAGACATCACCCCTCCCA
GGAGCAAGGCGGAAGTCTGGAGGACGCTGAGGGCGGAGGCGGGAGAGGCGAGCTCGCGATGAGTGGTCT
CGGCAGGCTCTTCGGGAAGGGGAAGAAGGAGAAAGGGCCAACCCCTGAAGAAGCAATACAGAAACTGAAG
GAGACAGAGAAGATACTGATCAAGAAACAGGAATTTTTGGAGCAGAAGATTCAACAGGAGCTACAAACAG
CCAAGAAGTATGGGACCAAGAATAAGAGAGCTGCCCTACAGGCTTTGCGGAGGAAGAAAAGATTGGAACA
GCAGCTGGCACAACACTGACGGGACATTATCCACCCTGGAGTTTCAGCGTGAGGCCATTGAGAATGCCACT
ACCAATGCAGAAGTCCTTCGTACCATGGAGCTTGCTGCCCAAAGCATGAAGAAGGCTACCAGGACATGG
ACATTGACAAGGTAGATGAACTGATGACTGACATCACGGAACAACAGGAGGTGGCCAGCAGATCTCAGA
TGCCATTTCTCGGCCTATGGGCTTTGGAGATGATGTGGATGAGGATGAACTGCTGGAGGAGCTAGAGGAG
CTGGAGCAGGAGGAATTGGCCAGGAGTTGTTAAATGTGGGCGACAAGGAAGAAGAACCCCTCAGTCAAAT
TGCCTAGTGTACCTTCTACTCATCTGCCGGCAGGGCCAGCTCCCAAAGTGGATGAAGATGAAGAAGCACT
AAAGCAGTTGGCTGAGTGGGTATCCTGA
```



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_014169 unedited  
 GTTTTGTAAACGACTTCATATAGGGCGGCCGCAATTCGCACGAGGGCGGGAGATGCGA  
 GCTCGGATGAGTGGTCTCGGCAGGCTCTTCGGGAAGGGGAAGAAGGAGAAAGGGCCAAC  
 CCCTGAAGAAGCAATACAGAACTGAAGGAGACAGAGAAGATACTGATCAAGAAACAGGA  
 ATTTTTGGAGCAGAAGATTCAACAGGAGCTACAAACAGCCAAGAAGTATGGGACCAAGAA  
 TAAGAGAGCTGCCCTACAGGCTTTGCGGAGGAAGAAAAGATTGAAACAGCAGCTGGCACA  
 AACTGACGGGACATTATCCACCCTGGAGTTTCAGCGTGAGGCCATTGAGAATGCCACTAC  
 CAATGCAGAAGTCTTCGTACCATGGAGCTTGCTGCCAAAGCATGAAGAAGGCCTACCA  
 GGACATGGACATTGACAAGGTAGATGAACTGATGACTGACATCACGGAACAACAGGAGGT  
 GGCCAGCAGATCTCAGATGCCATTTCTCGGCCTATGGGCTTTAGAGATGATGTGGATGA  
 GGATGAACTGCTGGAGGAGCTAGAGGAGCTGGAGCAGGAGGAATTGGCCAGGAGTTGTT  
 AAATGTGGGCGACAAGGAAGAAGAACCCTCAGTCAAATTCCTAGTGTACCTTCTACTCA  
 TCTGCCGCGAGGGCCAGCTCCCAAAGTGGATGAAGATGAAGAAGCACTAAAGCAGTTGGC  
 TGAGTGGGTATCCTGATAAATCTGGGCTTGTCTTCTAATGCTACCTTTGTTGGCTCTTT  
 CTTCTTAAGTGCCAAGTCTGAGCTAAAGGAGGATACTNTNTGGGAGTCATGCTGAG  
 GGTGGTAGTGTGACCCTGCCTGAAAAAAGGGTCTTACCTCCAGCCCTGGCTACTCT  
 GAAGAAGATCTTCTACACAGGGAGCCTTTGGCTCCCTCCTTTGATACAGTTTAAATGG  
 CCCTGNTCCCATAAAAGTGAAG

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_014169 unedited  
 CTATGGCCCGGCGGCCGCAATCTAGNATCGAGTTTTTTTTTTTTTTTTTCCATCTGCC  
 AGTTTTATTGGGAACAAGGCATTATAACTGCTATCAAAGAGAGGGAGCCAGGGCTCCT  
 TCTGTAGCAAGATCCTTCTCAGAGTTGAGCCAGGGCTGGGAGGTAAGAGACCCTTTT  
 TCAGGCAGGGTCACACTACCACCCTCAGCATGACTTCCCAAAAAGTTATCCTCCTTAG  
 CTCAGCACTTGGCACTTAAGGAAGAAAGGACCAACAAAGGTAGCATTAGGAAGACAAGCC  
 CAGATTTATCAGGATACCCACTCAGCCAACTGCTTTAGTGCTTCTTCATCTTCATCCACT  
 TTGGGAGCTGGCCCTGCCGCGAGATGAGTAGAAGGTACTAGGCAATTTGACTGAGGGT  
 TCTTCTTCTTGTGCGCCACATTTAACTCCTGAGCCATTCCTCCTGCTCCAGCTCC  
 TCTAGCTCCTCCAGCAGTTCATCCTCATCCACATCATCTCTAAAGCCCATAGGCCGAGAA  
 ATGGCATCTGAGATCTGCTGGCCACCTCCTGTGTTCCGTGATGTCAGTCATCAGTTCA  
 TCTACCTTGTCAATGTCCATGTCTGTTAGGCTTCTTCATGCTTTGGGCAGCAAGCTCC  
 ATGGTAGCAAGGACTTCTGCATTGGTAGTGCCATTCTCAATGGCCTCACGCTGAAACTCC  
 AGGGTGGATAATGTCCCCTCAGTTTGTGCCAGCTGCTGTTCAATCTTTTCTTCTCCGC  
 ANAGCCTGTNAGGCAGCTCTCTTATCCTGGNNCCATACTNNTGNCTGNNTGNAGCTCC  
 TGTTGAAATCTCTGCTCCAAAATCCTGTTTCTTGATCAGNATCTNCTGGCTCCCTCA  
 GNNTNCTGAATGGCTNCTTCAAGGGTGGGCTTTTCTNCTTCTNCTTNNNCGANNAG  
 CTGCGAGACCCTCATCGGG

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_014169

**Insert Size:**

1000 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).

**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\\_014169.1](#), [NP\\_054888.1](#)

**RefSeq Size:** 1372 bp

**RefSeq ORF:** 672 bp

**Locus ID:** 29082

**UniProt ID:** [Q9BY43](#)

**Cytogenetics:** 14q12

**Domains:** DUF279

**Protein Pathways:** Endocytosis

**Gene Summary:** CHMP4A belongs to the chromatin-modifying protein/charged multivesicular body protein (CHMP) family. These proteins are components of ESCRT-III (endosomal sorting complex required for transport III), a complex involved in degradation of surface receptor proteins and formation of endocytic multivesicular bodies (MVBs). Some CHMPs have both nuclear and cytoplasmic/vesicular distributions, and one such CHMP, CHMP1A (MIM 164010), is required for both MVB formation and regulation of cell cycle progression (Tsang et al., 2006 [PubMed 16730941]).[supplied by OMIM, Mar 2008]