

## Product datasheet for **SC104721**

### CHMP2A (AK092868) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CHMP2A (AK092868) Human Untagged Clone
Tag:	Tag Free
Symbol:	CHMP2A
Synonyms:	BC-2; BC2; CHMP2; VPS2; VPS2A
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for AK092868, the custom clone sequence may differ by one or more nucleotides

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AAAACGGGTGTCCTGCCAGCTCCGGTGAGTGGCCCTGCTGGACCGTGGATCCCGGGGGCGGTGCGGG  
CGGCAGCGTACGAGGCCCTTCTACTCGCCCGGGTGTCCGGTGCCTCGTTCTCCCTGGGACCCTGTCGTCA  
ACATCGAGGTCTCCAACACCACCTTGCTTTGGTGCCGGGCCACTGACTGTCCTCGGTGTATAGTGCAC  
CGAATCTCCATCATCCCGTCTCAGTGTACAGGATGCCCCAGCGCCCAACCGTCTCCCTCAGCATTCA  
GGTCCCCAAATCCTAATGCCTTGTCTGAGCCTCACAGCCCCACATTACCTGTTCTTGGTACTTAGCG  
TTTCCGCCATCCTGTCTCCTCTATCAGAACCCCAACAATTGCTCTGTCTCGGTGCCACAGTCTCCA  
AAACACCGGTGCACCGGCCCGCTCATCCCCGCTCTCAGTCGTATCAAGGACTCCAGGGCTCACCCAT  
AGTTCTGGAGAGGAAGTGAACCTGCAAGCCATAACTTCTTTGGGCGATGGCGATGAAGGAGGGGCTC  
GGGCCAGCACTTGATAATTTTCAGGTCTACCTGTCCCCCTTTATGTGTCCCGGACAATCCCAGTGT  
CTCAGTGTCTCCCTTTGGCTCCTATTCTGCCTCCAGTCTCCGTTAGCCCTTCCCATTTGGCAAGGC  
TCCCGTAGCCCTGTTCTGCTTCTTGCCCTCCTGGGCCCATGCCCTACAACCTGGGCTCACTCACATCTG  
TCTCAGGCCTGCCAGTGAGCTTCTACCATCATGGACCTATTGTTCCGGGCGCCGGAAGACGCCAGAGGAGC  
TACTGCGGCAGAACCCAGAGGGCCCTGAACCGTGCCATGCGGGAGCTGGACCGCGAGCGACAGAACTAGA  
GACCCAGGAGAAGAAAATCATTGCAGACATTAAGAAGATGGCCAAGCAAGGCCAGATGGTGAAGTGGGT  
GGTCGGGCAGGTTGCTGTCAATCAGGCACGGCTTAACAGCAGTGAACAAGAGAGACCAGACACCAACA  
CAGGTGCTTTTCAGCAAAACGAGTGGAGTGAAGGTGAGCAGGGCTTCCCTAGTTTGGGGTCTGGAAGGC  
TGCTCCAAGGAAGTGGTATGAGATCCAAGGCTTGAGTGTGAGAGTGAAGCTACAGATCTGGGCAGGGA  
ATGTGTTAAGCAGACAGAGCAGCAAAATGTTAAAAAGAGCCTCAAAAAATGGGAGATGACAGGTGAGCT  
TCAAGAGTTGGGCATGGACCAGACAATTCAGAACTCTGGGCCAAAGTGGGAGCTAAGTTGGAAGTTAGG  
GATTACAGGGCCGGGCGCAGTAGCTCAGAGACCTGTAATCCAGCACTTTGGGAGGCAGAGGTGGTTGGA  
TCACCTGAGGTCAGGACTTCGAGACCAGCTGACCAACACAGAGTAACCCGCTCTACTGAAAATAAAA  
AAAAGTCCAGGCATGGTGGCGCACGCTGTAATCCAGCTACTCAGCAGGGCTGAGGCAGGACAATCT  
CTTGAACCCAGGAGGCGGAGGTTACAGTGAAGCAAGATCATGCCACTGCACTCCAGCCTGGGTGACAGAG  
CGAGACTCTGTCTCAAAAAAAAAAAAAAAAAAACCAGTAACTATAAGGATAAGCTGGCCCGCATGATG  
GCTCAAGCCTGTAATCCAGCACTTTGGGAGGCTGAGGTGGTGGATCACCTGAGGTCAGGATTTGAGA  
CCAGCCTGGCCAACATGGCAAAACCCACTCTACCAAAAATTAGCCGGGCATGGTGGTGCATACTTGTTA  
TCCCAGCTATTGAGAGGCTGAGGCAGAAGAATCGCTTGAGGCCGGGAGGCACAGTTGCAAGTGCACAA  
GATTGTGCCACTGCACTCCAGCCTAGGCAACAAAGCAAGACTCCAACCT
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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for AK092868 unedited CCCCCCACCCACCCNNNCCACCCCCCGTTCAAATTTGTATACGACTCATATAGGCG GCCGCGNAATTCGCGCGCGGACAGGACCGAGGGGCTTAGTTGGTGGGCAAGTCGGGGA TCCCAGAAAGAGAAGCGTGACCCGGAAGCGAAACGGGTGTCCGTCCCAGCTCCGGCCTG CCAGTGAGCTTCTACCATCATGGACCTATTGTTTCGGGCGCCGGAAGACGCCAGAGGAGCT ACTGCGGCAGAACCAGAGGGCCCTGAACCGTGCCATGCGGGAGCTGGACCGCGAGCGACA GAAACTAGAGACCCAGGAGAAGAAAATCATTGCAGACATTAAGAAGATGGCCAAGCAAGG CCAGATGGTGAGTGTGGTGGTTCGGGCGAGGTTGCTGTCAATCAGGCACGGCTCTAACAGC AGTGAACAAGAGAGACCGAGACACAAACACAGGTGCTTTCAGCAAAACGAGTGGAGTGAA AGGTGACGAGGGCTTCCCTAGTTTGAGGGTCTGGAAGGCTGCCTCCAAGGAACTGGTATG AGATCCAAGGCTTGAGTGATGAGAGTGAGCCTACAGATCTGGGCAGGGAATGTNGTAAGC AGACAGAGCAGCANATGTTAAAAAGAGCCTCANAAAATGGGAGATGACAGGTGAGCTTC AAGAAGTGGGCATGGACCAGACANTNCAGAAAATCTGGCCCAAAGTGGGAGCTAAGTTGG AAGGTTAGGGGATACAGGGCCCGNCGCAGTAGCTCAGAGACCTGTAATCCCAGCACTTG GAGGCAGAAAGGGGGNNAAAAACCNAAGNAAGGAAATTTAAACCAANCTGACCCACC CAAAAAACCCCGGTTTTACGGAACAAAAAACACCACCCGCGCNTGGGGGCCCCCCC CCGTACCCCAATTCTCAAAGCTTGGGGCGTGAAATTTTTGTTACCCATAGGCGGGG GGTCCCCCGCCCTAAATCTCCATTGCCCCCTCTTGGGGTACAACCCCATCTTCTC CAAAAAAT
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	AK092868
<b>Insert Size:</b>	1000 bp
<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>RefSeq:</b>	<u><a href="#">AK092868.1</a></u>
<b>RefSeq Size:</b>	1939 bp
<b>RefSeq ORF:</b>	1939 bp
<b>Locus ID:</b>	27243
<b>Cytogenetics:</b>	19q13.43
<b>Protein Pathways:</b>	Endocytosis

**Gene Summary:**

CHMP2A 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]