

Product datasheet for **SC319048**

CHMP2A (NM_014453) Human Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | CHMP2A (NM_014453) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | CHMP2A |
| Synonyms: | BC-2; BC2; CHMP2; VPS2; VPS2A |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC (PS100020) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| Fully Sequenced ORF: | <p>>OriGene sequence for NM_014453.2</p> <pre> CTGGACCGTGGATCCCCGGCGGGCGTGCGGGCGGCAGCGTACGAGGCCTTCTACTCGCCC GGGTGTCCGGTGCCTCGCTTCTCCCTGGGACCTGTCGTC AACATCGAGGCCTGCCAGTG AGCTTCTACCATCATGGACCTATTGTTTCGGGCGCCGGAAGACGCCAGAGGAGCTACTGCG GCAGAACCAGAGGGCCCTGAACCGTGCCATGCGGGAGCTGGACCGCAGCGACAGAAACT AGAGACCCAGGAGAAGAAAATCATTGCAGACATTAAGAAGATGGCCAAGCAAGGCCAGAT GGATGCTGTTTCGCATCATGGCAAAGACTTGGTGCGCACCCGGCGCTATGTGCGCAAGTT TGTATTGATGCGGGCCAACATCCAGGCTGTGTCCCTCAAGATCCAGACACTCAAGTCCAA CAACTCGATGGCACAAGCCATGAAGGGTGTACCAAGGCCATGGGCACCATGAACAGACA GCTGAAGTTGCCCCAGATCCAGAAGATCATGATGGAGTTTGAGCGGCAGGCAGAGATCAT GGATATGAAGGAGGAGATGATGAATGATGCCATTGATGATGCCATGGGTGATGAGGAAGA TGAAGAGGAGAGTGATGCTGTGGTGTCCAGGTTCTGGATGAGCTGGGACTTAGCCTAAC AGATGAGCTGTGCAACCTCCCCTCAACTGGGGGCTCGCTTAGTGTGGCTGCTGGTGGGAA AAAAGCAGAGGCCGCGCAGCCTCAGCCCTAGCTGATGCTGATGCAGACCTGGAGGAACGGCT TAAGAACCTGCGGAGGGACTGAGTGCCCTGCCACTCCGAGATAACCAAGTGGATGCCAG GATCTTTTACCACAACCCTCTGTAATAAAAGAGATTTGACACTAAAAAAAAAAAAAAAA AAAAAAAAAAAAAAAA </pre> |
| Restriction Sites: | Please inquire |
| ACCN: | NM_014453 |
| 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). |



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| 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: | <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_014453.2</u> , <u>NP_055268.1</u> |
| RefSeq Size: | 926 bp |
| RefSeq ORF: | 669 bp |
| Locus ID: | 27243 |
| UniProt ID: | <u>O43633</u> |
| Cytogenetics: | 19q13.43 |
| Domains: | DUF279 |
| Protein Pathways: | Endocytosis |
| Gene Summary: | <p>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]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1 and 2 encode the same protein.</p> |