

## Product datasheet for **RG218563**

### CHMP2A (NM\_198426) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CHMP2A (NM_198426) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CHMP2A
Synonyms:	BC-2; BC2; CHMP2; VPS2; VPS2A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG218563 representing NM_198426 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGACCTATTGTTCTGGGCGCCGGAAGACGCCAGAGGAGCTACTGCGGCAGAACCAGAGGGCCCTGAACC  
GTGCCATGCGGGAGCTGGACCGCGAGCGACAGAACTAGAGACCCAGGAGAAGAAAATCATTGCAGACAT  
TAAGAAGATGGCCAAGCAAGGCCAGATGGATGCTGTTTCGCATCATGGCAAAGACTTGGTGCGCACCCGG  
CGCTATGTGCGCAAGTTTGTATTGATGCGGGCCAACATCCAGGCTGTGTCCCTCAAGATCCAGACACTCA  
AGTCCAACAACCTCGATGGCACAAGCCATGAAGGGTGTACCAAGGCCATGGGCACCATGAACAGACAGCT  
GAAGTTGCCCCAGATCCAGAAGATCATGATGGAGTTTGAGCGGCAGGCAGAGATCATGGATATGAAGGAG  
GAGATGATGAATGATGCCATTGATGATGCCATGGGTGATGAGGAAGATGAAGAGGAGAGTGATGCTGTGG  
TGTCCCAGGTTCTGGATGAGCTGGGACTTAGCCTAACAGATGAGCTGTGCGAACCTCCCCTCAACTGGGGG  
CTCGCTTAGTGTGGCTGCTGGTGGGAAAAAAGCAGAGGCCCGCAGCCTCAGCCCTAGCTGATGCTGATGCA  
GACCTGGAGGAACGGCTTAAGAACCTGCGGAGGGAC

**ACGCGT**ACGCGGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG218563 representing NM\_198426  
Red=Cloning site Green=Tags(s)

MDLLFGRRKTPPELLRQNQRALNRMRELDRERQKLETQEKKIIADIKKMAKQGQMDAVRIMAKDLVRTR  
 RYVRKFVLMRANIQAVSLKIQTLKSNNSMAQAMKGVTKAMGTMRQLKLPQIQKIMMEFERQAEIMDMKE  
 EMMNDAIDDAMGDEEDEEESDAVVSQVLDLGLSLTDEL SNLPSTGGSLSVAAGGKKAEEAASALADADA  
 DLEERLKNLRRD

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_198426

**ORF Size:** 666 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\\_198426.3](#)

**RefSeq Size:** 928 bp

**RefSeq ORF:** 669 bp

**Locus ID:** 27243

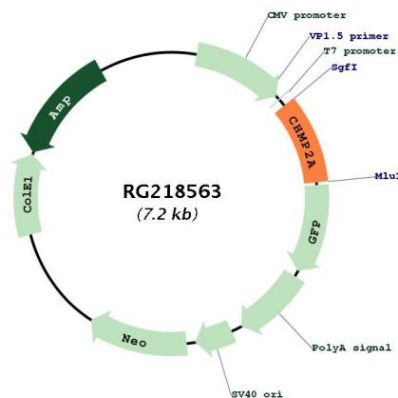
**UniProt ID:** [O43633](#)

**Cytogenetics:** 19q13.43

**Protein Pathways:** 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]

### Product images:



Circular map for RG218563