

Product datasheet for **RG214991**

CHMP1A (NM_002768) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CHMP1A (NM_002768) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CHMP1A
Synonyms:	CHMP1; PCH8; PCOLN3; PRSM1; VPS46-1; VPS46A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG214991 representing NM_002768 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGACCGCCCGCCGCGCAGCCGCGCCCGCCCTCTGGCGGGACCGGCCACCATCCTCTCGGAGGAGC
ATCCCGTGCACCGGAAGTGGGGCGCGACCCCGGAAGTCCCGCCGGGTGCAGCTTGGTCGGTTCGATC
GCCCGCGGACCTGACACCGCCGGAGTTGGCGTCCCTTCTCCCTCTCCGAGTGTGCTCCTGTATTGT
GGCCATGGACGATACCCTGTTCCAGTTGAAGTTCACGGCGAAGCAGCTGGAGAAGCTGGCCAAGAAGGCC
GAGAAGGACTCCAAGGCGGAGCAGGCCAAAGTGAAGAAGGCCCTTCTGCAGAAAAATGTAGAGTGTGCC
GTGTGTATGCCGAGAACCCATCCGCAAGAAGAACGAAGGTGTAACTGGCTTCGGATGGCGTCCCGCT
AGACGCAGTGGCCTCCAAGGTGGACACAGCTGTGACTATGAAGGGGTGACCAAGAATATGGCCAGGTG
ACCAAAGCCCTGGACAAGGCCCTGAGCACCATGGACCTGCAGAAGGTCTCCTCAGTGATGGACAGTTTCG
AGCAGCAGGTGCAGAACCTGGACGTCCATACATCGGTGATGGAGGACTCCATGAGCTCGGCCACACCCCT
GACCACGCCGAGGAGCAGGTGGACAGCCTCATCATGCAGATCGCCGAGGAGAATGGCCTGGAGGTGCTG
GACCAGCTCAGCCAGCTGCCGAGGGCGCCTCTGCCGTGGCGGAGAGCTCTGTGCCAGCCAGGAGGACC
AGCTGTACGGAGGTTGGCCGCTTGAGGAAGTACCGGTGCCCGCCGGTGTGCACCGCCTTGCCTCGT
GATGTGCTGGAAGGCTCCTGTCTCTCCCACCGCGTCTTGCCCTTGTGCTGACCCGCGGGGCTGCGGC
CGGCAGCCACTCTGCGTCTCTCACCTGCCAGGCCTGCGTGGCCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG214991 representing NM_002768
 Red=Cloning site Green=Tags(s)

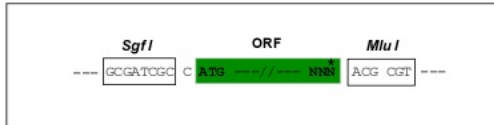
MATAAGSRAPPLWRDRPPSSREEHPVRPEVGRRRPRKSPPGAAWSVRSPGPDARSWRPFLSECCSCHC
 GHGRYPVPVEVHGEAAGEAGQEGGGLQGGAGQSEEGPSAEKCRVPCVCRERHPQEERRCELASDGVPR
 RRSGLQGGHSCDYEGDQEQYGPQDQSPGQGPPEHHGPAEGLLSDGQVRAAGAEPGRPYIGDGLHELGHHP
 DHAAGAGGQPHHADRRGEWPGGAGPAQPAARGRLCRGRELCAQPGGPAVTEVGRLEELAVPRRCAPPLPR
 DVLEGGSCPLPTASCLCADPAGLRPAATLRLSPARPAWP

TRTRPLE - GFP Tag - V

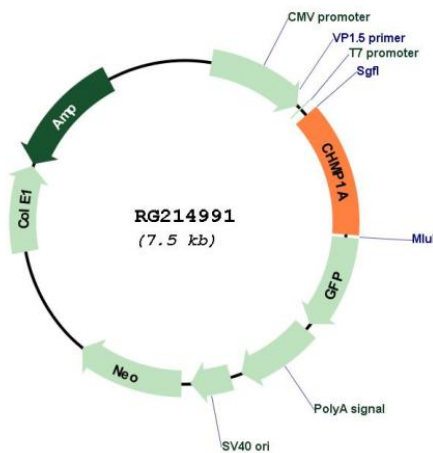
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_002768

ORF Size: 954 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:	<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:	NM_002768.1 , NP_002759.1
RefSeq Size:	2474 bp
RefSeq ORF:	591 bp
Locus ID:	5119
UniProt ID:	Q9HD42
Cytogenetics:	16q24.3
Protein Families:	Druggable Genome, Transcription Factors
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]