

Product datasheet for **RG227117**

CHM (NM_001145414) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: CHM (NM_001145414) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: CHM
Synonyms: DXS540; GGTA; HSD-32; REP-1; TCD
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG227117 representing NM_001145414
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGATACTCTCCCTTCGGAGTTTGATGTGATCGTAATAGGGACGGGTTGCCTGAATCCATCATTG
CAGCTGCATGTTCAAGAAGTGGCCGGAGAGTTCTGCATGTTGATTCAAGAAGCTACTATGGAGGAACTG
GGCCAGTTTTAGCTTTTCAGGACTATTGCCTGGCTAAAGGAATACCAGGAAAACAGTGACATTGTAAGT
GACAGTCCAGTGTGGCAAGACCAGATCCTTAAAAATGAAGAAGCCATTGCTCTTAGCAGGAAGGACAAAA
CTATTCACATGTGGAAGTATTTGTTATGCCAGGTCCACGCTGCTTTTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG227117 representing NM_001145414
Red=Cloning site Green=Tags(s)
MADTLPSEFDVIVIGTGLPESIIAACSRSRRVLHVDSRSYYGGNWASFSGLLSWLKEYQENSIVS
DSPVWQDQILENEEIALSRKDKTIQHVEVFCYARSTLLL

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

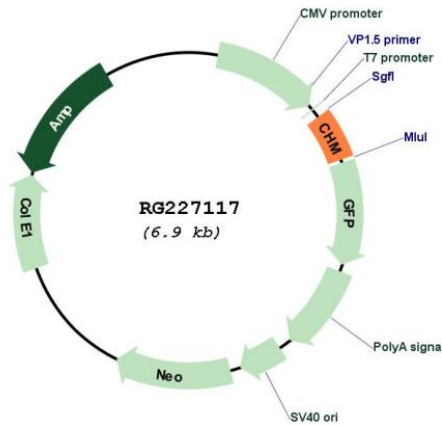


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001145414

ORF Size: 330 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_001145414.4
RefSeq Size:	2855 bp
RefSeq ORF:	333 bp
Locus ID:	1121
UniProt ID:	P24386
Cytogenetics:	Xq21.2
Protein Families:	Druggable Genome
Gene Summary:	This gene encodes component A of the RAB geranylgeranyl transferase holoenzyme. In the dimeric holoenzyme, this subunit binds unprenylated Rab GTPases and then presents them to the catalytic Rab GGTase subunit for the geranylgeranyl transfer reaction. Rab GTPases need to be geranylgeranylated on either one or two cysteine residues in their C-terminus to localize to the correct intracellular membrane. Mutations in this gene are a cause of choroideremia; also known as tapetochoroidal dystrophy (TCD). This X-linked disease is characterized by progressive dystrophy of the choroid, retinal pigment epithelium and retina. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Mar 2016]