

Product datasheet for **SC326527**

CHM (NM_001145414) Human Untagged Clone

Product data:

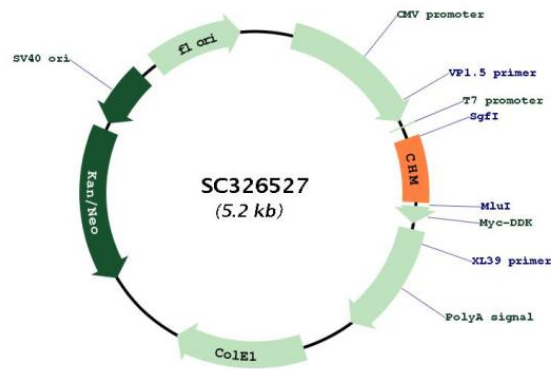
Product Type:	Expression Plasmids
Product Name:	CHM (NM_001145414) Human Untagged Clone
Tag:	Tag Free
Symbol:	CHM
Synonyms:	DXS540; GGTA; HSD-32; REP-1; TCD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC326527 representing NM_001145414. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GTCGTTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCGGATACTCTCCCTTCGGAGTTTGTGTGATCGTAATAGGGACGGGTTTGCCTGAATCCATCATT
GCAGCTGCATGTTCAAGAAGTGGCCGAGAGTTCTGCATGTTGATTCAAGAAGCTACTATGGAGGAAAC
TGGGCCAGTTTTAGCTTTTCAGGACTATTGCTCTGGCTAAAGGAATACCAGGAAAACAGTGACATTGTA
AGTGACAGTCCAGTGTGGCAAGACCAGATCCTTGAAAATGAAGAAGCCATTGCTCTTAGCAGGAAGGAC
AAAACATTTCAACATGTGAAGTATTTTGTATGCCAGGTCCACGCTGCTTTTATGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: Sgfl-Mlul



[View online »](#)

Plasmid Map:


ACCN: NM_001145414

Insert Size: 333 bp

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).

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:

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_001145414.3](#)

RefSeq Size: 2859 bp

RefSeq ORF: 333 bp

Locus ID: 1121

UniProt ID: [P24386](#)

Cytogenetics: Xq21.2

Protein Families: Druggable Genome

MW: 12.3 kDa

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]

Transcript Variant: This variant (2) contains a novel 3' terminal exon and lacks many exons at the 3' end compared to variant 1. The resulting isoform (b) is shorter with a distinct C-terminus compared to isoform a.