

## Product datasheet for MR225185

### Ch25h (NM\_009890) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ch25h (NM_009890) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ch25h
Synonyms:	A1462618; m25OH
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR225185 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGCTGCTACAACGGTTCGGAGCTCCAAGACCTGGGCTGTTCCAGCCAGCTGCTCCTGCAGCCCTCT  
GGGACACCATAAGGACAAGGGAGGCGTTCACGCGCTCACCCATCTTCCAGTCACCTTTTCTATCATCAC  
TTACGTGGGCTTCTGCCTACCGTTCGTGGTGTGGACGTCCTGTATCCCTGGTCCCATCTGCGACGC  
TACAAGATCCACCCGGACTTCTCGCCTCCGTAAGCAGCTTCTGCCTTGCCTGGGGCTGACTCTACC  
AGCACCTGGTGTTCGTGTTCCCGGTGACGCTGCTGCCTGGTGGCAGCCCGGCGCTCCTCCCCAGGA  
GGCCCTGAGCTCGTCCAGCTCCTAAGTCAGTCTGATCTGCCTGCTGCTTTCGACACCGAGATCTTC  
CGTGGCACCTGCTGCACCATAAGGTGCCCTGGCTGTACCGCACCTTCCACAAGGTGCATCACCAGAACT  
CGTCTCCTTCGCGCTGGCGACCAATACATGAGCTTCTGGGAGCTGCTTTCGCTGACCTTCTTCGACGT  
GCTGAACGTGCGGGTGTTCGGTGTCAACCACTCACCATCTTTACCTTTCACGTGATTAACATCTGGCTG  
TCGGTGGAGGACCACTCGGGCTATGACTTCCCGTGGTCCACTCACAGACTTGTGCCCTTTGGCTGGTACG  
GGGCGTGGCTCACCACGACATGCATCACTCTCAGTTAACTGCAATTTTGCTCCTTACTTCACACTG  
GGACAAAATGCTGGGCACTCTGCGGTCCGCGCCCTGCCAGAGAGCCTTTGGCCCTGCGGTGAGCGCTGC  
GTGAATCCAGAGAGCGATGCGCTGTACACTTGATCCAGAAGAAGAAACAGACT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR225185 protein sequence  
Red=Cloning site Green=Tags(s)

MGCYNGSELQDLGCSSQLLLQPLWDTIRTREAFTRSPIFPVTFSSIITYVGFCLPFVVLDVLYPWVPIILRR  
 YKIHPDFSPSVKQLLPCLGLTLYQHLVFVFPVTLHWRSPALLPQEAPLVQLLSHVLICLLFDTEIF  
 AWHLLHHKVPWLYRTFHKVHHQNSSSFALATQYMSFWELLSLTFDVLNVAVLRCHPLTIFTFHVINIWL  
 SVEDHSGYDFPWSTHRLVPFGWYGGVAHDMHHSQFNCFAPYFTHWDKMLGTLRSAPLPESLCA CGERC  
 VNSRERCAVHLIQKKKQT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9023\\_f11.zip](https://cdn.origene.com/chromatograms/mm9023_f11.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_009890

**ORF Size:** 897 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\\_009890.2](#)

**RefSeq Size:** 1366 bp

**RefSeq ORF:** 897 bp

**Locus ID:** 12642

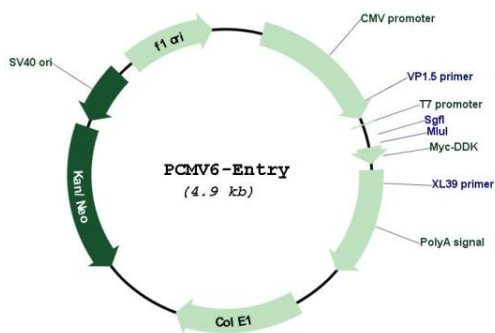
**UniProt ID:** [Q9Z0F5](#)

**Cytogenetics:** 19 C1

**MW:** 34.7 kDa

**Gene Summary:** Catalyzes the formation of 25-hydroxycholesterol from cholesterol, leading to repress cholesterol biosynthetic enzymes (PubMed:9852097). Plays a key role in cell positioning and movement in lymphoid tissues: 25-hydroxycholesterol is an intermediate in biosynthesis of 7-alpha,25-dihydroxycholesterol (7-alpha,25-OHC), an oxysterol that acts as a ligand for the G protein-coupled receptor GPR183/EBI2, a chemotactic receptor for a number of lymphoid cells (PubMed:22999953). May play an important role in regulating lipid metabolism by synthesizing a corepressor that blocks sterol regulatory element binding protein (SREBP) processing (PubMed:9852097). In testis, production of 25-hydroxycholesterol by macrophages may play a role in Leydig cell differentiation (PubMed:9852097). [UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR225185