

Product datasheet for MC208281

Ch25h (NM_009890) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ch25h (NM_009890) Mouse Untagged Clone
Tag: Tag Free
Symbol: Ch25h
Synonyms: A1462618; m25OH
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC208281 representing NM_009890
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGCTGCTACAACGGTTCGGAGCTCCAAGACCTGGGCTGTTCCAGCCAGCTGCTCCTGCAGCCCCTCT
 GGGACACCATAAGGACAAGGGAGGCGTTCACGCGCTCACCCATCTCCCAGTCACCTTTTCTATCATCAC
 TTACGTGGGCTTCTGCCTACCGTTCGTGGTGTGGACGTCTGTATCCCTGGGTCCCATCTGCGACGC
 TACAAGATCCACCGGACTTCTCGCCTCCGTAAGCAGCTTCTGCCTGGCTGGGGCTGCACTCTACC
 AGCACCTGGTGTTCGTGTTCCCGGTGACGCTGCTGCACTGGGTGCGCAGCCCGGCGCTCCTCCCCAGGA
 GGCCCTGAGCTCGTCCAGCTCCTAAGTCACGTCTGTATCGCTGCTGCTCTTCGACACCGAGATCTTC
 CGGTGGCACCTGCTGCACCATAAGGTGCCCTGGCTGTACCGCACCTCCACAAGGTGCATCACCAGAACT
 CGTCTCTTCGCGCTGGCGACCAATACATGAGCTTCTGGGAGCTGCTTTCGCTGACCTTCTTCGACGT
 GCTGAACGTCGCGGTGCTTCGGTGTCAACCACTCACCATCTTTACCTTTCACGTGATTAACATCTGGCTG
 TCGGTGGAGGACCACTCGGGCTATGACTCCCGTGGTCCACTCACAGACTGTGCCCTTTGGCTGGTACG
 GGGCGTGGCTCACCACGACATGCATCACTCTCAGTTAACTGCAATTTGCTCCTTACTTCACACTG
 GGACAAAATGCTGGCACTCTGCGGTCCGCGCCCTGCCAGAGAGCCTTTGCGCCTGCGGTGAGCGCTGC
 GTGAACCTCAGAGAGCGATGCGCTGTACTTGTATCCAGAAGAAGAAACAGACT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_009890
Insert Size: 897 bp



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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).
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_009890.1 , NP_034020.1
RefSeq Size:	1365 bp
RefSeq ORF:	897 bp
Locus ID:	12642
UniProt ID:	Q9Z0F5
Cytogenetics:	19 C1
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]