

## Product datasheet for **RN215344**

### Ch25h (NM\_001025415) Rat Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Ch25h (NM\_001025415) Rat Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Ch25h  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >RN215344 representing NM\_001025415  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCCTGCCACAACGTTTCGGAGCTCCAAGACCTTGGTTGTTCCAACCAGCTGCTCCTGCAGCCTCTCT  
 GGGACAGCATAAGGACGGGAGAGGCGTCCGCGCGCTCACCTTCTCCAGTCATCTTTCTATCTTCAC  
 TTACCTGGCTTCTGCCTACCGTTCGTTGGTGTAGATGTCCTCTGTCCCTGGGTGCCATCTTGAGACGC  
 TACAAGATCCACCCGACTTCTCGCCGTCGGTAAGGCAGCTTCTGCCCTGCCTGGGCTGCACTCTACC  
 AGCACCTGGTGTTCGTTCCAGTGACCTGATGCACCTGGGCGCGCAGCCCCGCGCTGCTGCCGCGGA  
 GGCCCCGAGCTCTCCAGCTCCTGAGTCACGTCTGATCTGCCTGCTGCTCTTCGACACCGAGATCTTC  
 GCGTGGCATCTGCTGCACCATAAGGTGCCCTGGCTGTACCGCACCTTCCACAAGGTGCATCACCAGAACT  
 CGTCTCCTTCGCGTTGGCTACCCAATACATGAGCGTCTGGGAGCTGCTTCTCTGACCTTCTTCGATGT  
 GCTGAACGTCGCGATGCTTCAGTGTACCCACTCACCATCCTCGTCTTTCAGTGGTTAACATCTGGCTG  
 TCGGTGGAGGACCACTCAGGTTACGACTTCCGTGGTCCACTCACAGACTTGTGCCGTTTGGCTGGTACG  
 GGGCGTGGCTCACCACGACCTGCATCACTCTCAGTTAACTGCAACTTTGCTCCGTACTTCACACTG  
 GGACAAAATGCTGGGACCTGCGTTGCGCACCCACTCGAAGCGCTGTGTGCCGCGAGTGAGAGCTGC  
 TTGGACTCCGGAGAGCAATGTACTGTACTTGAACCAGAAGAAGAAACAGACT**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul  
**ACCN:** NM\_001025415  
**Insert Size:** 897 bp



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<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001025415.1</a></u> , <u><a href="#">NP_001020586.1</a></u>
<b>RefSeq Size:</b>	1341 bp
<b>RefSeq ORF:</b>	897 bp
<b>Locus ID:</b>	309527
<b>UniProt ID:</b>	<u><a href="#">Q4QQV7</a></u>
<b>Cytogenetics:</b>	1q53
<b>Gene Summary:</b>	Catalyzes the formation of 25-hydroxycholesterol from cholesterol, leading to repress cholesterol biosynthetic enzymes. 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. May play an important role in regulating lipid metabolism by synthesizing a corepressor that blocks sterol regulatory element binding protein (SREBP) processing. In testis, production of 25-hydroxycholesterol by macrophages may play a role in Leydig cell differentiation. [UniProtKB/Swiss-Prot Function]