

Product datasheet for **RR215344**

Ch25h (NM_001025415) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ch25h (NM_001025415) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ch25h
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR215344 representing NM_001025415 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCTGCCACAACGTTTCGGAGCTCCAAGACCTTGGTTGTCCAACCAGCTGCTCCTGCAGCCTCTCT
GGGACAGCATAAGGACGGGAGAGGCGTCCGCGCCTCACCTTCTCCAGTCATCTTTCTATCTTCAC
TTACCTGGGCTTCTGCCTACCGTTCGTGGTCTAGATGTCCTCTGTCCCTGGGTGCCATCTTGAGACGC
TACAAGATCCACCCGACTTCTCGCCGTCGGTAAGGCAGCTTCTGCCCTGCCTGGGGCTGACACTTACC
AGCACCTGGTGTTCGTGTTCCAGTGACCTGATGCACCTGGGCGCGCAGCCCCGCGCTGCTGCCGCGGA
GGCCCCGAGCTCTCCAGCTCCTGAGTCACGTCTGATCTGCCTGCTGCTCTTCGACACCGAGATCTTC
GCGTGGCATCTGCTGCACCATAAGGTGCCCTGGCTGTACCGCACCTTCCACAAGGTGCATCACCAGAACT
CGTCTCCTTCGCGTTGGCTACCCAATACATGAGCGTCTGGGAGCTGCTTCTCTGACCTTCTCGATGT
GCTGAACGTCGCGATGCTTCAGTGTACCCACTCACCATCCTCGTCTTTCAGTGGTTAACATCTGGCTG
TCGGTGGAGGACCACTCAGGTTACGACTTCCGTGGTCCACTCACAGACTTGTGCCGTTTGGCTGGTACG
GGGGCGTGGCTCACCACGACCTGCATCACTCTCAGTTAACTGCAACTTTGCTCCGTACTCACACACTG
GGACAAAATGCTGGGGACCCTGCGTTGCGCACCCACTCGAAGCGCTGTGTGCCGCGAGTGAGAGCTGC
TTGGACTCCGGAGAGCAATGTACTGTACTTGAACCAGAAGAAGAAACAGACT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR215344 representing NM_001025415
Red=Cloning site Green=Tags(s)

MACHNVSELQDLGCSNQLLLQPLWDSIRTGEASRSPFFPVIFSIFTYLGFCCLPFVVLVDVLCWPVPIARR
 YKIHPDFSPSVRQLLPCLGLTLYQHLVFVFPVTLMHWARSPALLPREAPELSQLLSHVLICLLLDFTIEIF
 AWHLHKKVPWLVRTFKVHHQNSSSFALATQYMSVWELLSLTFDVLNVAMLQCHPLTILVFHVNIWL
 SVEDHSGYDFPWSTHRLVPFGWYGGVAHDDLHHSQFNCFAPYFTHWDKMLGTLRCAPHSKRLCAGSESC
 LDSGEQCTVHLNQQKKQT

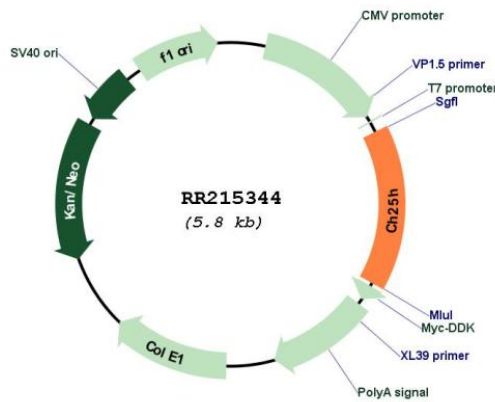
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001025415

ORF Size:	894 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_001025415.1 , NP_001020586.1
RefSeq Size:	1341 bp
RefSeq ORF:	897 bp
Locus ID:	309527
UniProt ID:	Q4QQV7
Cytogenetics:	1q53
MW:	34.4 kDa
Gene Summary:	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]