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Product datasheet for RC204716

CH25H (NM_003956) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CH25H (NM_003956) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CH25H
Synonyms:	C25H
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC204716 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGAGCTGCCACAACTGCTCCGACCCCCAGGTCCTTTGCAGCTCCGGGCAGCTGTTCCTGCAGCCCCTCT GGGACCACCTGAGGAGCTGGGAGGCCCTCCTACAGTCGCCCTTCTTCCCGGTCATCTTCTCCATCACCAC ATACGTGGGCTTTTGCCTGCCCTTCGTGGTCCTGGATATCCTGTGCTCCTGGGTGCCCGCCCTGCGGCGC TACAAGATCCACCCTGACTTCTCGCCATCCGCGCAGCAGCTGCTACCTTGCCTGGGGCAGACCCTCTACC AGCATGTGATGTTTGTGTTCCCCGTGACGCTGCTGCATTGGGCCCGCAGCCCGGCCCTCCTGCCCCACGA AGCTCCCGAGCTGCTCCTGCTGCTGCACCACATCCTGTTCTGCCTGCTACTCTTCGACATGGAGTTCTTC GTGTGGCACCTGCTGCACCACAAGGTGCCCTGGCTGTACCGCACCTTCCACAAGGTGCACCACCAGAACT CGTCCTCGTTCGCGCTGGCAACGCAGTATATGAGCGTCTGGGAACTGTTTTCTTTGGGCTTCTTCGACAT GATGAACGTCACACTGCTCGGGTGCCACCCGCTCACCACCCTGACCTTCCACGTGGTCAACATCTGGCTT TCCGTGGAGGACCACTCCGGCTACAACTTCCCTTGGTCCACTCACAGACTGGTGCCCTTCGGGTGGTACG GGGGTGTGGTGCACCACGACCTGCATCACTCTCACTTTAACTGCAACTTCGCTCCGTACTTTACACACTG GGACAAAATACTGGGAACGCTGCGGACTGCATCTGTCCCAGCGCGG ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC204716 protein sequence
Red=Cloning site Green=Tags(s)

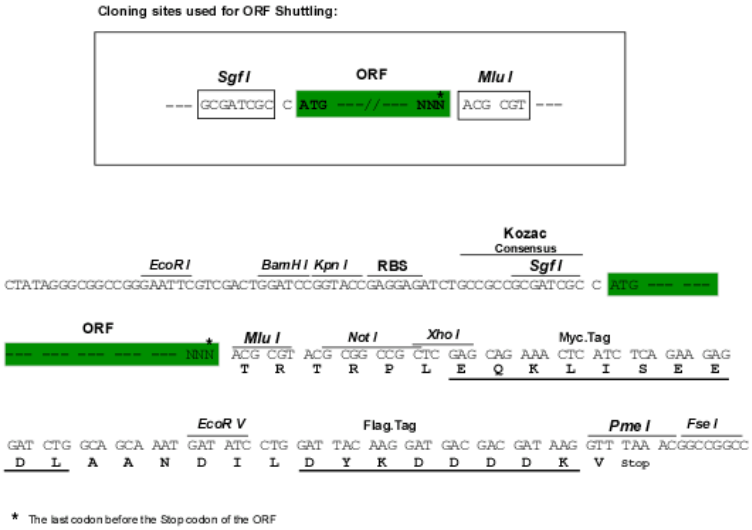
MSCHNCSDPQVLCSSGQLFLQPLWDHLRSWEALLQSPFFPVIFSITTYVGFCLPFVVLDILCSWVPALRR
YKIHPDFSPSAQQLLPCLGQTLYQHVMFVFPVTLLHWARSPALLPHEAPELLLLLHHILFCLLLFDMEFF
VWHLLHHKVPWLYRTFHKVHHQNSSSFALATQYMSVWELFSLGFFDMMNVTLLGCHPLTTLTFHVVNIWL
SVEDHSGYNFPWSTHRLVPFGWYGGVVHHDLHHSHFNCNFAPYFTHWDKILGTLRTASVPAR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6549_e02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_003956

ORF Size: 816 bp

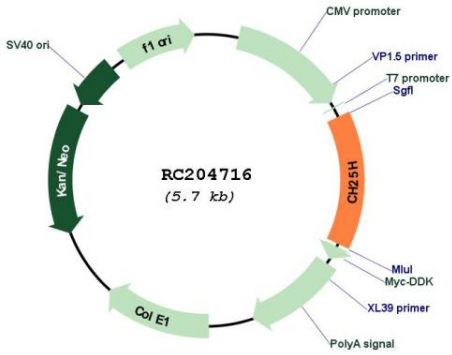
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

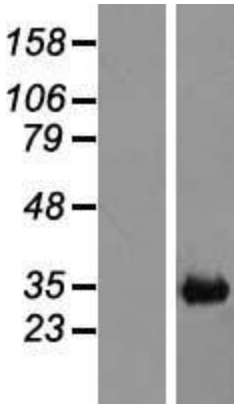
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_003956.4
RefSeq Size:	1378 bp
RefSeq ORF:	819 bp
Locus ID:	9023
UniProt ID:	O95992
Cytogenetics:	10q23.31
Protein Families:	Transmembrane
Protein Pathways:	Primary bile acid biosynthesis
MW:	31.7 kDa
Gene Summary:	This is an intronless gene that is involved in cholesterol and lipid metabolism. The encoded protein is a membrane protein and contains clusters of histidine residues essential for catalytic activity. Unlike most other sterol hydroxylases, this enzyme is a member of a small family of enzymes that utilize diiron cofactors to catalyze the hydroxylation of hydrophobic substrates. [provided by RefSeq, Jul 2008]

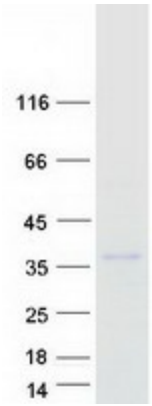
Product images:



Circular map for RC204716



Western blot validation of overexpression lysate (Cat# [LY418326]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204716 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified CH25H protein (Cat# [TP304716]). The protein was produced from HEK293T cells transfected with CH25H cDNA clone (Cat# RC204716) using MegaTran 2.0 (Cat# [TT210002]).