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Product datasheet for RG204716

CH25H (NM_003956) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CH25H (NM_003956) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CH25H
Synonyms:	C25H
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG204716 representing NM_003956
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGCTGCCACAACTGCTCCGACCCCCAGGTCCTTTGCAGCTCCGGGCAGCTGTTCCTGCAGCCCCTCT
GGGACCACCTGAGGAGCTGGGAGGCCCTCCTACAGTCGCCCTTCTTCCCGGTCATCTTCTCCATCACCAC
ATACGTGGGCTTTTGCCTGCCCTTCGTGGTCCTGGATATCCTGTGCTCCTGGGTGCCCGCCCTGCGGCGC
TACAAGATCCACCCTGACTTCTCGCCATCCGCGCAGCAGCTGCTACCTTGCCTGGGGCAGACCCTCTACC
AGCATGTGATGTTTGTGTTCCCCGTGACGCTGCTGCATTGGGCCCGCAGCCCGGCCCTCCTGCCCCACGA
AGCTCCCGAGCTGCTCCTGCTGCTGCACCACATCCTGTTCTGCCTGCTACTCTTCGACATGGAGTTCTTC
GTGTGGCACCTGCTGCACCACAAGGTGCCCTGGCTGTACCGCACCTTCCACAAGGTGCACCACCAGAACT
CGTCCTCGTTCGCGCTGGCAACGCAGTATATGAGCGTCTGGGAACTGTTTTCTTTGGGCTTCTTCGACAT
GATGAACGTCACACTGCTCGGGTGCCACCCGCTCACCACCCTGACCTTCCACGTGGTCAACATCTGGCTT
TCCGTGGAGGACCACTCCGGCTACAACTTCCCTTGGTCCACTCACAGACTGGTGCCCTTCGGGTGGTACG
GGGGTGTGGTGCACCACGACCTGCATCACTCTCACTTTAACTGCAACTTCGCTCCGTACTTTACACACTG
GGACAAAATACTGGGAACGCTGCGGACTGCATCTGTCCCAGCGCGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

View online »

Protein Sequence:

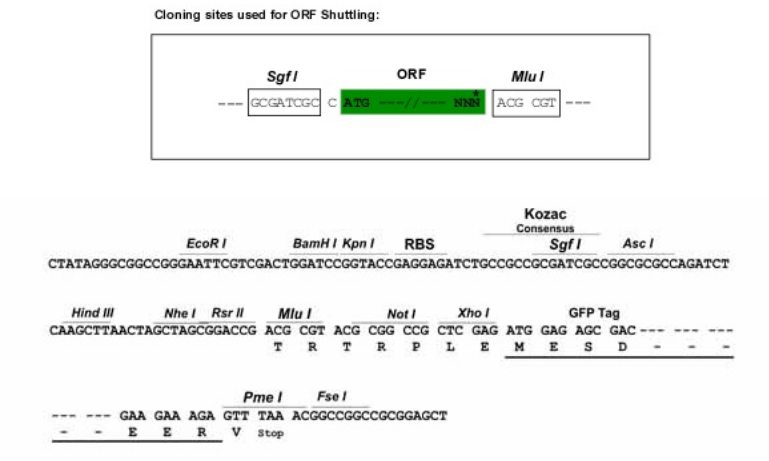
>RG204716 representing NM_003956
Red=Cloning site Green=Tags(s)

MSCHNCSDPQVLCSSGQLFLQPLWDHLRSWEALLQSPFFPVIFSITTYVGFCLPFVVLDILCSWVPALRR
YKIHPDFSPSAQQLLPCLGQTLYQHVMFVFPVTLLHWARSPALLPHEAPELLLLLHHILFCLLLFDMEFF
VWHLLHHKVPWLYRTFHKVHHQNSSSFALATQYMSVWELFSLGFFDMMNVTLLGCHPLTTLTFHVVNIWL
SVEDHSGYNFPWSTHRLVPFGWYGGVVHHDLHHSHFNCNFAPYFTHWDKILGTLRTASVPAR

TRTRPLE - GFP Tag - V

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.

RefSeq: NM_003956.4

RefSeq Size: 1411 bp

RefSeq ORF: 819 bp

Locus ID: 9023

UniProt ID: O95992

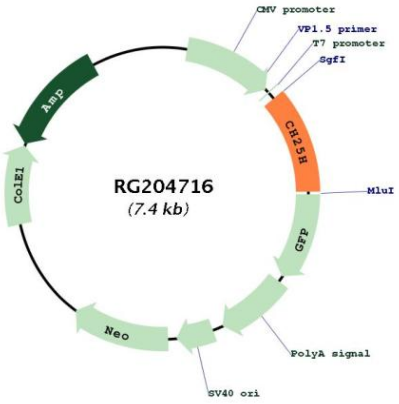
Cytogenetics: 10q23.31

Protein Families: Transmembrane

Protein Pathways: Primary bile acid biosynthesis

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 RG204716