

Product datasheet for **RG216976**

CYP26C1 (NM_183374) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CYP26C1 (NM_183374) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CYP26C1
Synonyms:	FFDD4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG216976 representing NM_183374
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTTCCCTTGGGGCTGAGCTGCCTGTGAGTGTGGGGCGCGGGCACTGCTCTCCTGTGCGCGGGCC
 TGCTGCTCAGCCTGGCCAGCACCTCTGGACCCTCCGCTGGATGCTGAGCCGGGACCGGGCTCCACCCT
 GCCTCTGCCAAGGGCTCCATGGGGTGGCCCTTCTCGGCGAAACGCTGCACTGGTTAGTTCAGGGCTCG
 CGCTTCCACAGTTCTCGCCGAGAGCGCTATGGGACAGTGTCAAGACGCACCTGTGGGAGCCAGTGA
 TCCGCGTGAGCGGCGGGAGAAGCTGCGCACCATCCTGTGGGCGAGCACCGCTGGTGCAGCCAGTGC
 GCCGAGAGTGCACACATCCTGTGGGCTCGCACACACTGCTAGGTGCGGTGCGGAGCCGACCCGGCGG
 CGGCGAAGGTCCTGGCGCGGTGTTAGCCGCGCGCTGGAGCGCTACGTGCCGCGCTGCAGGGGG
 CGCTGCGCATGAGGTGCGCTCCTGGTGCAGCGGGCGGGCCGGTCTCAGTCTACGACGCCTCAAAGC
 GCTCACCTCCGATGGCCGCGCATCCTGTGGGGTTCGGGCTGGACGAGGCGCAGTGCGCCACGCTG
 GCCCGACCTTCGAGCAGCTCGTGGAGAACCTTCTCACTGCCTCTGGACGTTCCCTTCACTGGCCTAC
 GCAAGGGCATCCGGGCAAGGGACAGCTGCATCGGCACCTGGAGGGGGCCATTTCTGAGAAGCTTACGA
 GGACAAGGCTGCAGAGCCGGGTGATGCCCTCGACCTAATCATTACAGTGAAGGGAGCTGGGCCATGAG
 CCCTCCATGCAGGAGCTGAAGGAGTCCGCTGTGGAGCTCCTTTCGCGCCTTCTTACCACGGCCAGTG
 CCAGCACCTCGCTCGTCTGTGCTACTGCAGCATCCGGCGGCCATCGCCAAGATTCGGGAGGAGCTGGT
 GGGCAGGGGCTGGGGCGCGCTGCGGCTGCGCGCCCGGGCCGCTGGGGCAGCGAGGGGCCCCCGCC
 GACTGCGGCTGCGAGCCCGACCTCAGCTCGCGGCGCTGGGCCGCTGCGCTACGTGACTGCGTGGTCA
 AGGAGTGTGCGCCTCCTGCCGCAAGTGTCCGGGGCTACCGCACCGCCCTGCGCACCTTCGAGCTCA
 CGGCTACAGATCCCCAAGGGCTGGAGCGTGATGTATAGCATCCGGGACACGACGAGACGCTGCGGTG
 TACCGCAGCCCTCCGAAGGCTTCGATCCAGAGCGCTTCGGCGCAGCGCGAAGATTCCCGGGGCGCT
 CCAGCCGTTCCATTACATCCCCTTCGCGCGCGGTGCGCGCAGCTGCCTCGGCCAGGAGCTGGCGAAGC
 CGTGCTCCAGCTGCTAGCTGTGGAGCTAGTGCACCGCGCGCTGGGAAGTGGCCACACCCGCTTCCCC
 GCCATGCAGACGGTGCATCGTGCACCCAGTGGACGGGCTGCGGCTCTTTTCCACCCCTCACGCCT
 CGGTTGCGGGGAATGGGCTATGCCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG216976 representing NM_183374
 Red=Cloning site Green=Tags(s)

MFPWGLSCLSVLGAAGTALLCAGLLLSLAQHLWTLRWMLSRDRASTLPLPKGSMGWPFPGETLHVLVQGS
 RFHSSRRERYGTVEFKTHLLGRPVIRVSGAENVRTILLGEHRLVRSQWPQSAHILLGSHTLLGAVGEPHRR
 RRVKVLARVFSRAALERYVPRQLQALRHEVRSWCAAGGPVSVYDASKALTFRMAARILLGLRLDEAQCATL
 ARTFEQLVENLFSPLDVPFSGLRKGRIRARDQLHRHLEGAISEKLHEDKAAEPGDALDLIIHSARELGHE
 PSMQELKESAVELLFAAFFTTASASTSLVLLLLQHPAAIAKIREELVAQGLGRACGCAPGAAGGSEGGPP
 DCGCEPDLSLAALGRLRYVDCVVKVLRLLPPVSGGYRTALRTFELDGYQIPKGWSVMYSIRDTHETAAV
 YRSPPEGFDPERFGAAREDSRGASSRFHYIPFGGGARSCLGQELAQAVLQLLAVELVVRTARWELATPAFP
 AMQTVPIVHPVDGLRLFFHPLTPSVAGNGLCL

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

ACCN:	NM_183374
ORF Size:	1566 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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_183374.3
RefSeq Size:	1569 bp
RefSeq ORF:	1569 bp
Locus ID:	340665
UniProt ID:	Q6V0L0
Cytogenetics:	10q23.33
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Retinol metabolism

Gene Summary:

This gene encodes a member of the cytochrome P450 superfamily of enzymes. The cytochrome P450 proteins are monooxygenases which catalyze many reactions involved in drug metabolism and synthesis of cholesterol, steroids and other lipids. This enzyme is involved in the catabolism of all-trans- and 9-cis-retinoic acid, and thus contributes to the regulation of retinoic acid levels in cells and tissues. This gene is adjacent to a related gene on chromosome 10q23.33. [provided by RefSeq, Jul 2008]