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Product datasheet for RC216278

CYP26A1 (NM_000783) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CYP26A1 (NM_000783) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CYP26A1
Synonyms:	CP26; CYP26; P450RAI; P450RAI1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

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ORF Nucleotide Sequence:

>RC216278 representing NM_000783
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGGCTCCCGGCGCTGCTGGCCAGTGCGCTCTGCACCTTCGTGCTGCCGCTGCTGCTCTTCCTGGCTG
CGATCAAGCTCTGGGACCTGTACTGCGTGAGCGGCCGCGACCGCAGTTGTGCCCTCCCATTGCCCCCCGG
GACTATGGGCTTCCCCTTCTTTGGGGAAACCTTGCAGATGGTACTGCAGCGGAGGAAGTTCCTGCAGATG
AAGCGCAGGAAATACGGCTTCATCTACAAGACGCATCTGTTCGGGCGGCCCACCGTACGGGTGATGGGCG
CGGACAATGTGCGGCGCATCTTGCTCGGAGAGCACCGGCTGGTGTCGGTCCACTGGCCAGCGTCGGTGCG
CACCATTCTGGGATCTGGCTGCCTCTCTAACCTGCACGACTCCTCGCACAAGCAGCGCAAGAAGGTGATT
ATGCGGGCCTTCAGCCGCGAGGCACTCGAATGCTACGTGCCGGTGATCACCGAGGAAGTGGGCAGCAGCC
TGGAGCAGTGGCTGAGCTGCGGCGAGCGCGGCCTCCTGGTCTACCCCGAGGTGAAGCGCCTCATGTTCCG
AATCGCCATGCGCATCCTACTGGGCTGCGAACCCCAACTGGCGGGCGACGGGGACTCCGAGCAGCAGCTT
GTGGAGGCCTTCGAGGAAATGACCCGCAATCTCTTCTCGCTGCCCATCGACGTGCCCTTCAGCGGGCTGT
ACCGGGGCATGAAGGCGCGGAACCTCATTCACGCGCGCATCGAGCAGAACATTCGCGCCAAGATCTGCGG
GCTGCGGGCATCCGAGGCGGGCCAGGGCTGCAAAGACGCGCTGCAGCTGTTGATCGAGCACTCGTGGGAG
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CCACGGCCAGTGCAGCCACATCTCTGATCACTTACCTGGGGCTCTACCCACATGTTCTCCAGAAAGTGCG
AGAAGAGCTGAAGAGTAAGGGTTTACTTTGCAAGAGCAATCAAGACAACAAGTTGGACATGGAAATTTTG
GAACAACTTAAATACATCGGGTGTGTTATTAAGGAGACCCTTCGACTGAATCCCCCAGTTCCAGGAGGGT
TTCGGGTTGCTCTGAAGACTTTTGAATTAAATGGATACCAGATTCCCAAGGGCTGGAATGTTATCTACAG
TATCTGTGATACTCATGATGTGGCAGAGATCTTCACCAACAAGGAAGAATTTAATCCTGACCGATTCATG
CTGCCTCACCCAGAGGATGCATCCAGGTTCAGCTTCATTCCATTTGGAGGAGGCCTTAGGAGCTGTGTAG
GCAAAGAATTTGCAAAAATTCTTCTCAAAATATTTACAGTGGAGCTGGCCAGGCATTGTGACTGGCAGCT
TCTAAATGGACCTCCTACAATGAAAACCAGTCCCACCGTGTATCCTGTGGACAATCTCCCTGCAAGATTC
ACCCATTTCCATGGGGAAATC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC216278 representing NM_000783
Red=Cloning site Green=Tags(s)

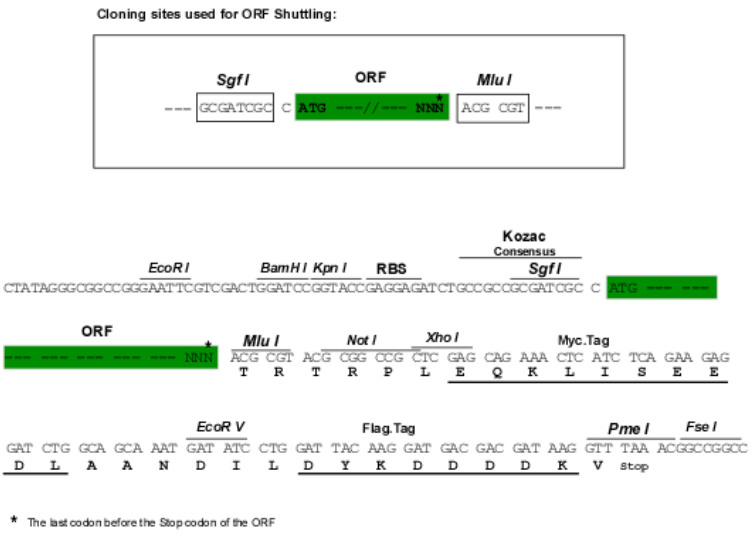
MGLPALLASALCTFVLPLLLFLAAIKLWDLYCVSGRDRSCALPLPPGTMGFPFFGETLQMVLQRRKFLQM
KRRKYGFIYKTHLFGRPTVRVMGADNVRRILLGEHRLVSVHWPASVRTILGSGCLSNLHDSSHKQRKKVI
MRAFSREALECYVPVITEEVGSSLEQWLSCGERGLLVYPEVKRLMFRIAMRILLGCEPQLAGDGDSEQQL
VEAFEEMTRNLFSLPIDVPFSGLYRGMKARNLIHARIEQNIRAKICGLRASEAGQGCKDALQLLIEHSWE
RGERLDMQALKQSSTELLFGGHETTASAATSLITYLGLYPHVLQKVREELKSKGLLCKSNQDNKLDMEIL
EQLKYIGCVIKETLRLNPPVPGGFRVALKTFELNGYQIPKGWNVIYSICDTHDVAEIFTNKEEFNPDRFM
LPHPEDASRFSFIPFGGGLRSCVGKEFAKILLKIFTVELARHCDWQLLNGPPTMKTSPTVYPVDNLPARF
THFHGEI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

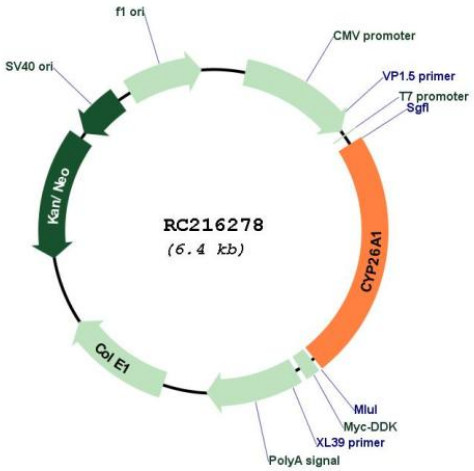
Chromatograms: https://cdn.origene.com/chromatograms/mk6158_d05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

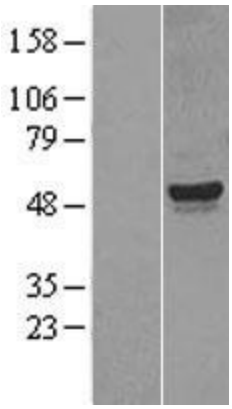


Plasmid Map:

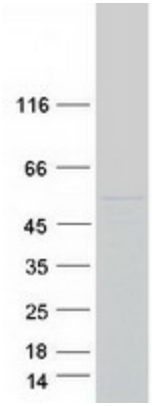


ACCN:	NM_000783
ORF Size:	1491 bp
OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid 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. 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.
RefSeq:	NM_000783.4
RefSeq Size:	2099 bp
RefSeq ORF:	1494 bp
Locus ID:	1592
Domains:	p450
Protein Families:	Druggable Genome, P450, Transmembrane
Protein Pathways:	Retinol metabolism
MW:	56 kDa
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 endoplasmic reticulum protein acts on retinoids, including all-trans-retinoic acid (RA), with both 4-hydroxylation and 18-hydroxylation activities. This enzyme regulates the cellular level of retinoic acid which is involved in regulation of gene expression in both embryonic and adult tissues. Two alternatively spliced transcript variants of this gene, which encode the distinct isoforms, have been reported. [provided by RefSeq, Jul 2008]

Product images:



Western blot validation of overexpression lysate (Cat# [LY400267]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC216278 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified CYP26A1 protein (Cat# [TP316278]). The protein was produced from HEK293T cells transfected with CYP26A1 cDNA clone (Cat# RC216278) using MegaTran 2.0 (Cat# [TT210002]).