

Product datasheet for **MR207978**

Cyp26a1 (NM_007811) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cyp26a1 (NM_007811) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cyp26a1
Synonyms:	Cyp26; P450RA; P450RAI; RAH
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR207978 representing NM_007811
 Red=Cloning site Blue=ORF Green=Tags(s)

GACGTTGTATACGACTCCTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGGCGGCC

ATGGGGCTCCCGCGCTGCTGGCCAGTGCCTCTGCACCTTCGTGCTGCCGCTGCTGCTTCTCTGGCGG
 CGCTCAAGCTCTGGACCTGTACTGTGTGAGCAGCCGCGATCGCAGCTGCGCCCTCCCTTGCCCCCGG
 TACCATGGGCTTCCCATCTTTGGGAAACATTGCAGATGGTGTTCAGCGGAGGAAGTTCTGCAGATG
 AAGCGCAGGAAATACGGCTTCATCTACAAGACGCATCTGTTTGGGCGGCCACGGTGCGGGTGATGGGCG
 CGGATAATGTGCGGCGCATCTTGTCTGGGAGAGCACCGTGGTGTGCGTGCCTGCGCCGCTGCGTGC
 CACCATCTGGGCGTGGCTGCCTCTCCAACCTGCACGATTCTCGCACAAGCAGCGAAAGAAGGTGATT
 ATGCAGGCCTTACCGCGAGGCACTCCAGTGTACGTGCCCGTATCGTGCAGGAAGTGCAGATGTGC
 TGGAGCAGTGGCTAAGCTGCGGCGAGCGCGCCCTCTGGTCTACCCGAGGTGAAGCGCCTCATGTTCCG
 CATCGCCATGCGCATCTGCTGGCTGCGAGCCGGTCCAGCGGCGGGGAGGACGAGCAGCAGCTC
 GTGGAGGCTTTCGAGGAGATGACCCGCAATCTTCTCTCTTCCATTGACGTGCCCTTTAGCGGCCTGT
 ACCGGGGCGTGAAGGCGCGGAACCTTATACACGCGCGCATCGAGGAGAATTCGCGCAAGATCCGCCG
 GCTTACAGGCTACAGAGCCGGATGGGGTGAAGGACGCGCTGCAGCTCCTGATTGAGCACTCGTGGGAG
 AGGGGAGAGAGGCTGGATATGCAGGCACTAAAACAATCGTCAACAGAGCTCCTCTTTGGTGGTATGAAA
 CTACAGCCAGTGTGCGAGTCACTGATCACTTACCTAGGACTCTACCCACATGTCTCCAGAAAGTTG
 AGAAGAGATAAAGAGCAAGGGCTTACTTTGCAAGGCAATCAAGACAACAAGTTAGACATGGAAGCTTTG
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 TTCGGTTGCTCTGAAGACTTTTGAAGTGAATGGATACCAGATCCCAAGGGCTGGAATGTTATTTACAG
 TATCTGTGACACCCACGATGTGGCAGATATCTTACTAACAAGGAGGAATTTAATCCCGACCGCTTATA
 GTGCCTCATCCAGAGGATGCTTCCCGTTCAGTTCATTCCATTTGGAGGAGCCTTCGGAGCTGTGTAG
 GCAAAGAGTTTGCAAAAATCTTCTTAAGATATTTACAGTGGAGCTGGCTAGGCACTGTGATTGGCAGCT
 TCTAAATGGACCTCTACAATGAAGACAAGCCCCACTGTGTACCTGTGGACAATCTCCCTGCAAGATT
 ACCCACTCCAGGGAGATATC

ACGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

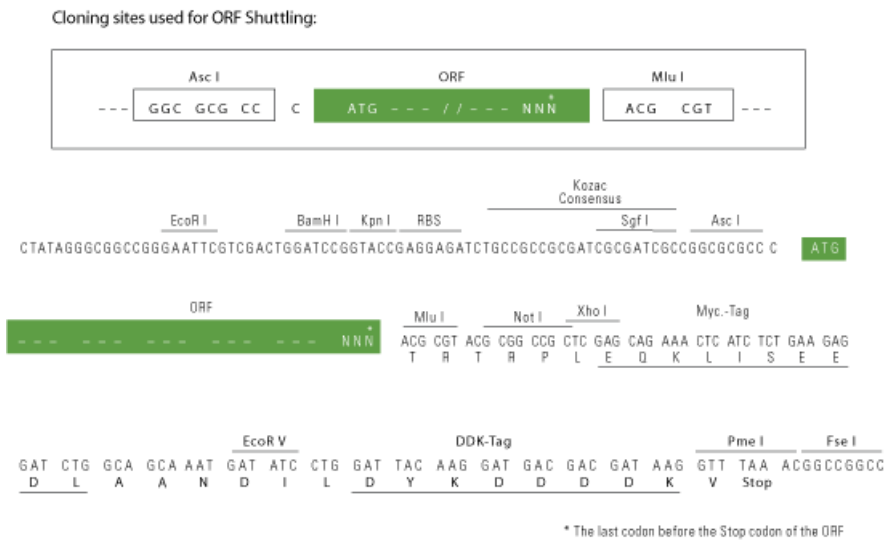
>MR207978 representing NM_007811
 Red=Cloning site Green=Tags(s)

MGLPALLASALCTFVLP LLLFLAALKLWDLVYVSSRDRSCALPLPPGTMGFPFFGETLQMVLRQRKFLQM
 KRRKYGFYKTHLFRPTVVRMGADNVRRIILLGEHRLVSVHWPASVRTILGAGCLSNLHDSHKQRKKVI
 MQAFSREALQCYVPVIAEEVSSCLEQWLSGGERLLVYPEVKRMLFRIAMRILLGCEPGPAGGGEDQQL
 VEAFEEMTRNLFSLPIDVPFSGLYRGVKARNLIHARIEENIRAKIRRLQATEPDGCKDALQLLIEHSWE
 RGERLDMQALKQSSTELLFGGHETTASAATSLITYLGLYPHVLQKVREEIKSKGLLCKSNQDNKLDMETL
 EQLYTGCVIKETLRLNPPVPGFRVALKTFELNGYQIPKGWNVYISICDTHDVADIFTNKEEFNDRFI
 VPHPEDASRFSFIPFGGLRSCVGEFAKILLKIFTVELARHCDWQLLNGPPTMKTSPVYVPVDNLPARF
 THFQDI

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

AscI-MluI

Cloning Scheme:


ACCN: NM_007811

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.

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:

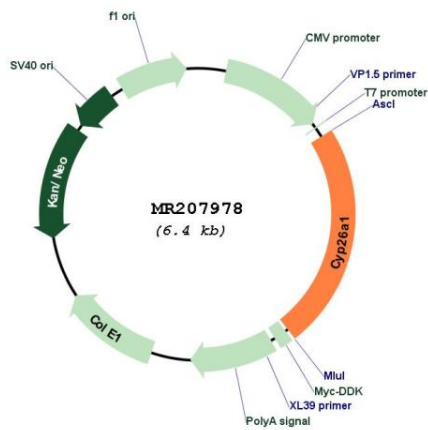
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store 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_007811.2](#)

RefSeq Size: 1756 bp
 RefSeq ORF: 1494 bp
 Locus ID: 13082
 UniProt ID: [O55127](#)
 Cytogenetics: 19 C2
 MW: 56.6 kDa

Gene Summary: Plays a key role in retinoic acid metabolism. Acts on retinoids, including all-trans-retinoic acid (RA) and its stereoisomer 9-cis-RA. Capable of both 4-hydroxylation and 18-hydroxylation. Responsible for generation of several hydroxylated forms of RA, including 4-OH-RA, 4-oxo-RA and 18-OH-RA.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR207978