

## Product datasheet for **MG207978**

### Cyp26a1 (NM\_007811) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cyp26a1 (NM_007811) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cyp26a1
Synonyms:	Cyp26; P450RA; P450RAI; RAH
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG207978 representing NM\_007811  
 Red=Cloning site Blue=ORF Green=Tags(s)

CTATAGGGCGGCCGGGAATTCGTCTGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCCGGCGC  
 GCCC

ATGGGGCTCCCGCGCTGCTGGCCAGTGCCTCTGCACCTTCGTGCTGCCGCTGCTGCTTCTCTGGCGG  
 CGCTCAAGCTCTGGACCTGTACTGTGTGAGCAGCCGCGATCGCAGCTGCCCCCTCCCTTGCCCCCGG  
 TACCATGGGCTTCCCACTTTGGGAAACATTGCAGATGGTGTTCAGCGGAGGAAGTTCTGCAGATG  
 AAGCGCAGGAAATACGGCTTCATCTACAAGACGCATCTGTTTGGGCGGCCACGGTGCGGGTGATGGGCG  
 CGGATAATGTGCGGCGCATCTTGTCTGGGAGAGCACCAGTGGTGTGCGTGCCTGCCCCGCTCGGTGCG  
 CACCATCTGGGCGTGGCTGCCTCTCCAACCTGCACGATTCTCGCACAAGCAGCGAAAGAAGGTGATT  
 ATGCAGGCCTTCAGCCGCGAGGCACTCCAGTGTACGTGCCCGTATCGCTGAGGAAGTCAGCAGTTGTC  
 TGGAGCAGTGGCTAAGCTGCGGCGAGCGCGCCCTCCTGGTCTACCCCGAGGTGAAGCGCCTCATGTTCCG  
 CATCGCCATGCGCATCCTGCTGGCTGCGAGCCGGTCCAGCGGGCGGGGAGGACGAGCAGCAGCTC  
 GTGGAGGCTTTCGAGGAGATGACCCGCAATCTCTTCTCTTCCATTGACGTGCCCTTTAGCGGCCTGT  
 ACCGGGGCGTGAAGGCGCGGAACCTTATACACGCGCGCATCGAGGAGAACATTCCGCGCAAGATCCGCCG  
 GCTTCAGGCTACAGAGCCGGATGGGGTTGCAAGGACGCGCTGCAGCTCCTGATTGAGCACTCGTGGGAG  
 AGGGGAGAGAGGCTGGATATGCAGGCACTAAAACAATCGTCAACAGAGCTCCTCTTTGGTGGTATGAAA  
 CTACAGCCAGTGTGCGACGCTACTGATCACTTACCTAGGACTCTACCCACATGTCTCCAGAAAGTTCCG  
 AGAAGAGATAAAGAGCAAGGGCTTACTTTGCAAGAGCAATCAAGACAACAAGTTAGACATGGAACTTTG  
 GAACAGCTTAAATACACTGGGTGTGTCATTAAGGAGACCCTGCGATTGAATCCTCCGTTCCAGGAGGGT  
 TTCGGTTGCTCTGAAGACTTTTGAAGTGAATGGATACCAGATCCCAAGGGCTGGAATGTTATTTACAG  
 TATCTGTGACACCCACGATGTGGCAGATATCTTCACTAACAAGGAGGAATTTAATCCCGACCGCTTATA  
 GTGCCTCATCCAGAGGATGCTTCCCGTTCAGTTCATTCCATTTGGAGGAGGCCTTCGGAGCTGTGTAG  
 GCAAAGAGTTTGCAAAAATCTTCTTAAGATATTTACAGTGGAGCTGGCTAGGCACTGTGATTGGCAGCT  
 TCTAAATGGACCTCCTACAATGAAGACAAGCCCCACTGTGTACCTGTGGACAATCTCCCTGCAAGATT  
 ACCCACTCCAGGGAGATATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>MG207978 representing NM\_007811  
 Red=Cloning site Green=Tags(s)

MGLPALLASALCTFVLP LLLFLAALKLWLDLYCVSSRDRSCALPLPPGTMGFPFFGETLQMVLRQRKFLQM  
 KRRKYGF IYKTHLFRPTVRVMGADNVRRI LLGEHRLVSVHWPASVRTILGAGCLSNLHDS SHKQRKKVI  
 MQAFSREALQCYVPVIAEEVSSCLEQWLS CGERGLLVYPEVKRMLFRIAMRILLGCEPGPAGGGEDEQQL  
 VEA FEEMTRNLFSLPIDVPF SGLYRGVKARNLIHARIEENIRAKIRRLQATEPDGGCKDALQLLIEHSWE  
 RGERLDMQALKQSSTELLFGGHETTASAATSLITYLGLYPHVLQKVREEIKSKGLLCKSNQDNKLDMETL  
 EQLKYTGCVIKETLRLNPPVPGGFRVALKTFELNGYQIPKGWNVIYSICDTHDVADIFTNKEEFNPDRFI  
 VPHPEDASRFSFIPFGGLRSCVGKEFAKILLKIFTVELARHCDWQLLNGPPTMKTSP TVYPVDNLPARF  
 THFQGDI

TRTRPLE - GFP Tag - V

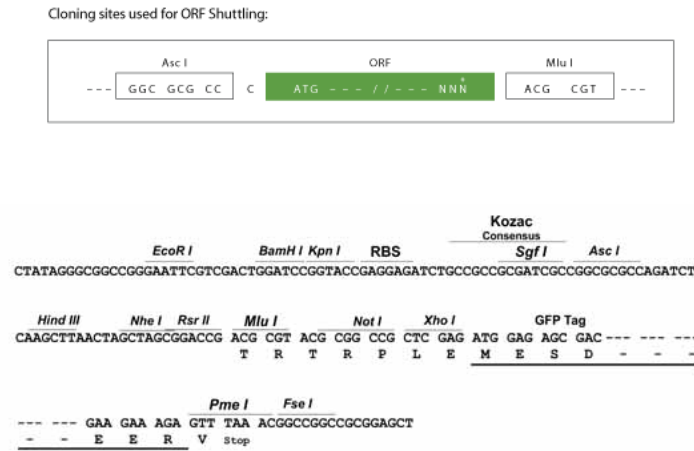
**Chromatograms:**

[https://cdn.origene.com/chromatograms/ja1777\\_e01.zip](https://cdn.origene.com/chromatograms/ja1777_e01.zip)

**Restriction Sites:**

Ascl-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](mailto: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.

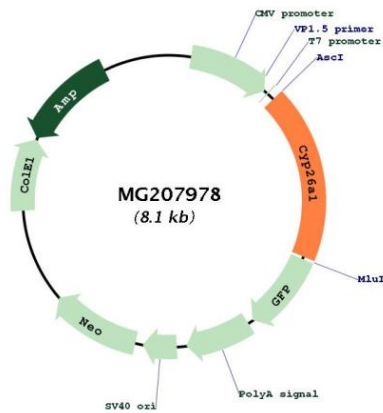
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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

**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 MG207978