

## Product datasheet for **RR203566**

### Cyp26a1 (NM\_130408) Rat Tagged ORF Clone

#### Product data:

|                    |                                          |
|--------------------|------------------------------------------|
| Product Type:      | Expression Plasmids                      |
| Product Name:      | Cyp26a1 (NM_130408) Rat Tagged ORF Clone |
| Tag:               | Myc-DDK                                  |
| Symbol:            | Cyp26a1                                  |
| Synonyms:          | Cyp26                                    |
| Vector:            | pCMV6-Entry (PS100001)                   |
| E. coli Selection: | Kanamycin (25 ug/mL)                     |
| Cell Selection:    | Neomycin                                 |



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**ORF Nucleotide Sequence:**

>RR203566 representing NM\_130408  
 Red=Cloning site Blue=ORF Green=Tags(s)

CTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGATCGCCGGCGC  
 GCC

ATGGGCTCCCGCGCTGCTGGCCAGTGTCTCTGCACCTTCGTGCTGCCGCTGCTGCTTCTCTGGCGG  
 CGCTCAAGCTCTGGGACCTGTACTGTGTGAGCAGCCGATCGCAGCTGCGCTCTCCCTTGCCCCGGG  
 TACCATGGGCTTCCATTCTTTGGGAAACATTGCAGATGGTGTGCAGCGGAGGAAGTTTCTGCAGATG  
 AAGCGCAGGAAATACGGCTTCATCTACAAGACGCATCTGTTTGGGCGGCCACGGTGCGAGTGATGGCG  
 CGGATAATGTGCGGCGCATCTTGTGGGGGAGCACCGTTGGTGTGAGTGCAGTGCCTGCTTCCGTGCG  
 CACCATCTGGGCGCCGCTGCCTCTCCAACCTGCATGATTCTCGCACAAGCAGCGAAAGAAGGTGATT  
 ATGAGGCTTCAACCGAGAGGCGCTCCAGTGTACGTGCCAGTATTGCTGAAGAAGTGAGCGGTTGTC  
 TGGAGCAGTGGCTAAGCTGCGGCGAGCGGCGCTCCTGGTCTACCCGAGGTGAAGCGCCTCATGTTCCG  
 CATCGCCATGCGCATCCTGCTGGCTGCGAGCCGGTCCAGCGGCGGCGGGGAAGACGAGCAGCAGCTA  
 GTGGAGGCTTTCGAGGAGATGACCCGCAATCTTCTCTCTCCCAATTGACGTGCCCTTACGCGGCTGT  
 ACCGGGGCGTGAAGGCGCGGAACCTTATCCACGCGCGCATCGAGGAGAATTCGGGCAAGATCCGCCG  
 GCTTCAGGCCGACAGCCGGATGCGGGCTGCAAGGACGCACTGCAGCTTGTGATTGAGCACTCATGGGAG  
 AGAGGAGAGAGGCTGGATATGCAGGCACTAAAACAATCGTCCACAGAGCTCCTCTTTGGTGGCCATGAAA  
 CTACAGCCAGTGCAGCCACATCACTGATCACCTACCTAGGACTCTACCCACATGTCTCCAAAAAGTTG  
 AGAAGAGATAAAGAGCAAGGGCTTACTTTGCAAGGCCATCACGAGGACAAGTTAGACATGGAACCTTTG  
 GAACAGCTCAAATACATTGGGTGTGTTATTAAGGAGACCCTTCGATTGAATCCTCCGTTCCGGGAGGGT  
 TTCGGTGGCTCTGAAGACTTTTGAAGTGAACGGTTACCAGATTCCCAAGGGTGAATGTTATTTACAG  
 TATCTGTGACACCCATGACGTGGCAGACAGCTTCACTAACAAGGAGGAGTTAATCCCGACCGATTACA  
 TCGCTTATCCAGAGCACCTCCAGTTTCACTTTCATTTGAGGAGGCCTTCGGAGCTGCGTAG  
 GCAAAGAGTTTGAAAAATCTTCTTAAGATATTTACCGTGGAGCTGGCCAGACGTTGTGACTGGCAGCT  
 GCTAAATGGACCTCCTACAATGAAGACAAGCCCCCGTTTACCCTGTGGACAATCTTCTGCAAGATTC  
 ACCCACTCCAGGGAGATATC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR203566 representing NM\_130408  
 Red=Cloning site Green=Tags(s)

MGLPALLASALCTFVLP LLLFLAALKLWDL YCVSSRDRSCALPLPPGTMGF PFFGETLQMV LQRRKFLQM  
 KRRKYGF IYKTHL FGRPTVRVMGADNVRRI LLGEHRLVSVHWPASVRTILGAGCLSNLHDS SHKQRKKVI  
 MQAFNREALQCYVPVIAEEVSGCLEQWL SCGERLLVYPEVKR LMFRIAMRILLGCEPGPAGGGEDEQQL  
 VEA FEEMTRNLFSLPIDVPF SGLYRGVKARNLIHARIEENIRAKIRRLQAAEPDAGCKDALQLLIEHSWE  
 RGERLDMQALKQSSTELLFGGHETTASAATSLIT YLGLYPHVLQKVREEIKSKGLLCKSHHEDKLDMETL  
 EQLYIGCVIKETLRLNPPVPGGFRVALKTFELNGYQIPKGWNV IYSICDTHDVADSF TNKEEFNPD RFT  
 SLHPEDTSRFSFIPFGGLRSCVGEFAKILLKIFTVELARRCDWQLLNGPPTMKTSPVYPVDNL PARF  
 THFQGDI

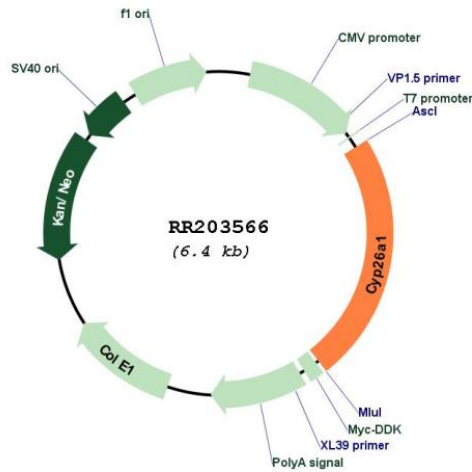
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Ascl-MluI



Plasmid Map:



ACCN: NM\_130408

ORF Size: 1491 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\\_130408.2](#), [NP\\_569092.2](#)

**RefSeq Size:** 1754 bp

**RefSeq ORF:** 1494 bp

**Locus ID:** 154985

**Cytogenetics:** 1q53

**MW:** 56.2 kDa

**Gene Summary:** member of the cytochrome P450 superfamily of monooxygenase enzymes; this gene encodes an endoplasmic reticulum-specific protein which acts on retinoids, including all-trans-retinoic acid (Ra) [RGD, Feb 2006]