

## Product datasheet for **RN201480**

### **Cyp21a1 (NM\_057101) Rat Untagged Clone**

#### **Product data:**

|                                  |                        |
|----------------------------------|------------------------|
| <b>Product Type:</b>             | Expression Plasmids    |
| <b>Tag:</b>                      | Tag Free               |
| <b>Symbol:</b>                   | Cyp21a1                |
| <b>Synonyms:</b>                 | 21-OH; Cyp21           |
| <b>Mammalian Cell Selection:</b> | Neomycin               |
| <b>Vector:</b>                   | pCMV6-Entry (PS100001) |
| <b>E. coli Selection:</b>        | Kanamycin (25 ug/mL)   |



**Fully Sequenced ORF:** >RN201480 representing NM\_057101  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGC**

ATGCTGCTACCTGGGCTGCTGTTGCTGCTGCTGCTGCTGCTAGCTGGCACCCGCTGGCTGTGGGGTC  
 AGTGGAAGCTCTGGAACTCCGCCTCCCGCTCTGGCCCCGGGTTTCTGCACTTTCTACAGCCCAACCT  
 TCCGGTCTACCTGTTTGGCCTGGCTCAGAACTTGGGCCCATCTACAGGATCCGCTTGGGGCTACAAGAT  
 GTGGTGGTGTGAACCTAACAAAACCATTTGAGGAGGCCTTGATCCAAAAGTGGGTGGACTTTGCTGGCC  
 GACCCAGATACTAGATGGAAGATGAACCTTGACCTCTCCATGGGGGATTATTCTTAACATGGAAGC  
 CCACAAGAACTCTCTCGTTCCGCCCTGGTGGCATGAGAGACTCCATGGAACCTCTGGTAGAGCAG  
 CTGACCCAGGAATTCTGTGAGCGCATGAGAGCCAGGCCGGTGCCTCTGTGGCCATCCATAAGGAATTCT  
 CCTTACTCACCTGCAGTATCATCAGCTGTCTCACTTTTCGGAGACAAGCAGGACAGCACTTTGCTGAATGC  
 CACTCACAGCTGTGTCGGGACTTGCTGAAAGCCTGGAATCACTGGTCCGTCCAAATCTTGATATAATT  
 CCCTTTCTCAGTTCTTCCCAATCCAGGCCTCTGGAAGTGAAGCAGTTCCAGGAGAGTAGGGACCATA  
 TCGTAATGCAGGAGCTGAAGAGGCACAAGGACAGCCTGGTGGCAGGGCAGTGGAAGACATGATTGACTA  
 CATGCTCCAGGGTGTGGAGAAGCAAGAGATGCCAGAGACCCAGGGCAGCTCCACGAGCGGCACGTGCAT  
 ATGTCGGTGGTGGACCTTTTGTGGTGGCAGGAGACACGGCTGCCACGCTCTCTGGGCTGTGGCTT  
 TCCTGCTTACCACCTGAGATCCAGAAGCGGCTGCAGGAAGAATTAGACCTCAAGCTGGCCCCCAGCTC  
 CCAGCTCCTGTACAAGAACCGAATGCAGCTACCTCTGCTCATGGCCACCATTGCTGAAGTGTGCGTTTG  
 CGGCCCGTGGTGGCCATGGCCTTGGCCATCGTGCACTAAGGCTAGCAGCATCTCTGGCTATGATATCC  
 CCAAGGATACGATCATATCCCAACATCAAGGCGCAACCTGGATGAGATGGTTTGGAACTGCCAG  
 CAAGTTCTGGCCTGATCGCTTCTGGAATCCGGCAAGAGTCCAGAATACCGACCTTTGGCTGTGGGGCA  
 CGCGTGTGCTGGGCGAGCCTCTGGCGCGGCTGGAGCTCTTCGTGGTGTGGCTCGCCTGCTCCAGACCT  
 TCACGCTGCTGCCGCCACAGATGGTACCTGCCCTCCCTGCAGCCCTGCCGTATACTGGCATCAATCT  
 CTTAATCTCCCTTCCAGGTGCGGCTGCAGCCAGGAACCTGGCACCCCAAGACCAGGGCCAGAATCC  
 TCGACAGGA**TAG**

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGATAAGGTTTAA

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja1664\\_h07.zip](https://cdn.origene.com/chromatograms/ja1664_h07.zip)

**Restriction Sites:** SgfI-RsrII

**ACCN:** NM\_057101

**Insert Size:** 1482 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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).

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol> |
| <b>Note:</b>                  | Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>RefSeq:</b>                | <u>NM_057101.2, NP_476442.2</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>RefSeq Size:</b>           | 1963 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>RefSeq ORF:</b>            | 1482 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Locus ID:</b>              | 24298                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Cytogenetics:</b>          | 20p12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Gene Summary:</b>          | converts progesterone to deoxycorticosterone via 21-hydroxylation in the adrenal gland and possibly in peripheral astrocytes and CNS [RGD, Feb 2006]                                                                                                                                                                                                                                                                                                                                                                    |