

## Product datasheet for **MR207922**

### **Cyp2a4 (BC011233) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Cyp2a4 (BC011233) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cyp2a4
Synonyms:	AI893559; Cyp15a1; D7Ucla4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR207922 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCTGACCTCAGGACTCCTCCTGGTGGCTGCAGTGGCCTTCCTCAGCGTCTGGTCTTGATGTCTGTCT  
 GGAAGCAGAGAAAGCTCTCAGGAAAGCTGCCTCCAGGACCCACCCACTGCCCTTATTGGGAACCTCCT  
 TCAGCTGAACACAGAGCAAAATGTACAACCTCTCATGAAGATCAGCCAACGTTATGGTCCTGTATTACCC  
 ATCTACCTGGGACCTCGCCGAATTGTGGTGTGTGCGGACAGGAGGCAGTCAAGGAAGCTCTGGTGGACC  
 AAGCTGAGGAATTCAGCGGGCGGGGCGAGCAAGCTACCTTCGACTGGCTTTTCAAAGGCTATGGCGTAGC  
 CTTCAGCAGCGGGGAGCGAGCCAAACAGCTAAGGCGCTTCCATCGCCACGCTGCGGGACTTCGGCGTG  
 GGAAGCGTGGCATCGAGGAGCGCATCCAAGAGGAGGCGGGCTTCTCATCGATTCAATTCGGAAGACGA  
 ACGGTGCTTTTATTGACCCACCTTCTACCTTAGCCGAACAGTCTCCAATGTCATTAGCTCAATTGTCTT  
 CGGGGACCGCTTTGACTATGAGGACAAAGAGTTCTGTCTACTGCTCGAATGATGCTGGGAAGCTTCCAG  
 TTTACTGTACTCCATGGGGCAGCTCTATGAGATGTTCTTCTGTGATGAAACACCTGCCAGGGCCCC  
 AGCAACAGGCCTTAAGGAGCTGCAGGGCTGGAGGACTTCATAACCAAGAAAGTGAACACAATCAGCG  
 CACGCTGGATCCCAATCCCAAGGGACTTCATCGACTCCTTCTCATCCGAATGCTGGAGGAGAAGAAG  
 AACCCCAATACTGAGTTCTACATGAAGAACTTGGTGTGACTACACTAAATCTCTTTTCTGGCACAG  
 AGACCGTCAGCACCCCTGCGCTATGGCTTCTGTTGCTCATGAAGCACCCAGATATTGAGGCCAAGGT  
 CCATGAGGAGATTGATCGGGTATTGGCAGGAACCGGCAGCCCAAGTATGAGGACCGAATGAAGATGCC  
 TATACGGAGGCTGTAATCCATGAGATCCAGAGATTTCAGACATGATCCCATGGGCTGGCTCGAAGGG  
 TCACCAAGGACACCAAGTTTCGAGATTTCTCCTCCCAAGGGTACTGAAGTGTTCCTATGCTGGGCTC  
 TGTGCTGAAAGACCCCAAGTTCTTCTCCAACCCCAAGACTTCAACCCAAAGCACTTCTAGATGACAAG  
 GGACAGTTTAAGAAGAATGATGCCTTTGTGCCCTTTTCCATTGGAACCGTATTGTTTCGAGAAGGAC  
 TGGCTAGGATGGAACCTTCTCTTCTCACAACATCATGCAGAACTTCCACTTCAAATCCACACAGGC  
 ACCCCAGGACATCGATGTGTCTCTAGACTCGTGGGCTTGGCACGATCCCAACCTACACTATGAGT  
 TTCTTGTCCCGT

**ACGCGT**ACGCGGGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR207922 protein sequence  
 Red=Cloning site Green=Tags(s)

MLTSGLLLVAAVAFSLVLMSVWKQRKLSGKLPPTPLPFIQNFQLNTEQMYNSLMKISQRYGPVFT  
 IYLGPRRIIVLVCQAEVKEALVDQAEFSGRGEQATFDWLFKGYGVAFSSGERAKQLRRFSIATLRDFGV  
 GKRGIEERIQEEAGFLIDFRKTNQAFIDPTFYLSRTVSNVISSIVFGDRFDYEDKEFLSLLRMMLGSFQ  
 FTATSMGQLYEMFSSVMKHLPGPQQQAFKELQGLEDFITKKVEHNQRTLDPNSPRDFIDSFILRMLEEK  
 NPNTFYMKNLVLTTLNLFAGTETVSTTLRYGFLLLMKHPDIEAKVHEEIDRVIGRNRQPKYEDRMKMP  
 YTEAVIHEIQRFADMIPMGLARRVTKDKFRDFLLPKGTEVFPMLGSVLKDPKFFSNPKDFNPKHFLDDK  
 GQFKKNDVFPFISIGKRYCFGEGLARMEFLFLTNIMQNFHFKSTQAPQIDVSPRLVGFATIPPTYTMS  
 FLSR

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** BC011233

**ORF Size:** 1482 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:** [BC011233](#), [AAH11233](#)

**RefSeq Size:** 1706 bp

**RefSeq ORF:** 1484 bp

**Locus ID:** 13086

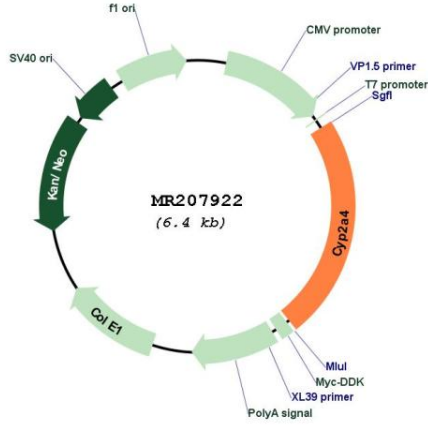
**Cytogenetics:** 7 14.39 cM

**MW:** 56.7 kDa

**Gene Summary:**

Highly active in the 15-alpha-hydroxylation of testosterone. Also active in the 15-alpha-hydroxylation of progesterone and androstenedione. Little or no activity on corticosterone, pregnenolone, dehydroepiandrosterone, estradiol or estriol.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR207922