

## Product datasheet for **MR207923**

### **Cyp2a4 (NM\_009997) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Cyp2a4 (NM_009997) 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:**

>MR207923 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCTGACCTCAGGACTCCTCCTGGTGGCTGCAGTGGCCTTCTCAGCGTCTGGTTTTGATGTCTGTCT  
 GGAAGCAGAGAAAGCTCTCAGGAAAGCTGCCTCCAGGACCCACCCACTGCCCTTCGTTGGGAACCTCCT  
 TCAGCTGAACACAGAGCAAAATGTACAACCTCTCATGAAGATCAGCCAACGTTATGGTCCTGTATTACCC  
 ATCTATCTGGGATCTCGCCGAATTGTGGTGTGTGCGGACAGGAGACAGTCAAGGAAGCTCTGGTGGACC  
 AAGCTGAGGAATTCAGCGGGCGGGGCGAGCAGGCTACCTTCGACTGGCTTTTCAAAGGCTATGGCATAGC  
 CTTCAGCAGCGGGGAGCGAGCCAAACAGCTAAGGCGCTTCTCCATCACCACGCTGCGGGACTTCGGCGTG  
 GGAAGCGTGGCATCGAGGAGCGCATCCAAGAGGAGGCGGGCTTCTCATCGATTCAATTCGGAAGACGA  
 ACGGTGCTTTCATTGACCCACCTTCTACCTTAGCCGAACAGTCTCCAATGTCATTAGCTCAATCGTCTT  
 CGGGGACCGCTTTGACTATGAGGACAAAGAGTTCTGTCACTTCTAGAATGATGCTGGGAAGCCTCCAG  
 TCACTGTACTCCATGGGGCAGGTCTATGAGATGTTTTCTTCTGTGATGAAACACCTGCCAGGGCCCC  
 AGCAACAGGCCTTAAGGAGCTGCAAGGCTGGAGGACTTTATAACCAAGAAAGTGAACACAATCAGCG  
 CACGCTGGATCCCAATCCCAAGGGACTTCATCGACTCCTTCTCATCCGAATGCTGGAGGAGAAGAAG  
 AACCCCAATACTGAGTTCTACATGAAGAACTTGGTGTGACTACACTAAATCTCTTCTTTGCTGGCACAG  
 AGACCGTCAGCACCCCTGCGCTATGGCTTCTGTTGCTCATGAAGTACCCAGATATTGAGGCCAAGGT  
 CCATGAGGAGATTGATCGGGTATTGGCAGGAACCGGCAGCCCAAGTATGAGGACCGAATGAAGATGCC  
 TATACGGAGGCTGTAATCCATGAGATCCAGAGATTTCAGACCTGATCCCATGGGCTGGCTCGAAGGG  
 TCACCAAGGACACCAAGTTTCGAGATTTCTCCTCCCAAGGGTACTGAAGTATTTCTATGCTGGGCTC  
 TGTGCTGAAAGACCCCAAGTTCTTCTCCAACCCCAAGACTTCAACCCAAAGCACTTCTAGATGACAAG  
 GGACAGTTTAAGAAGAGTGATGCCTTTGTGCCCTTTTCCATTGGAACCGTATTGTTTCGGAGAAGGAC  
 TGGCTAGGATGGAACCTTCTCTTCTCACAACATCATGCAGAACTTCCACTTCAAATCCACACAGGA  
 ACCCCAGGACATCGATGTGTCTCTAGACTCGTGGGCTTGTGCAGATCCCAACCTACACTATGAGT  
 TTCTTGTCCCGT

**ACGCGT**ACGCGGGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR207923 protein sequence  
 Red=Cloning site Green=Tags(s)

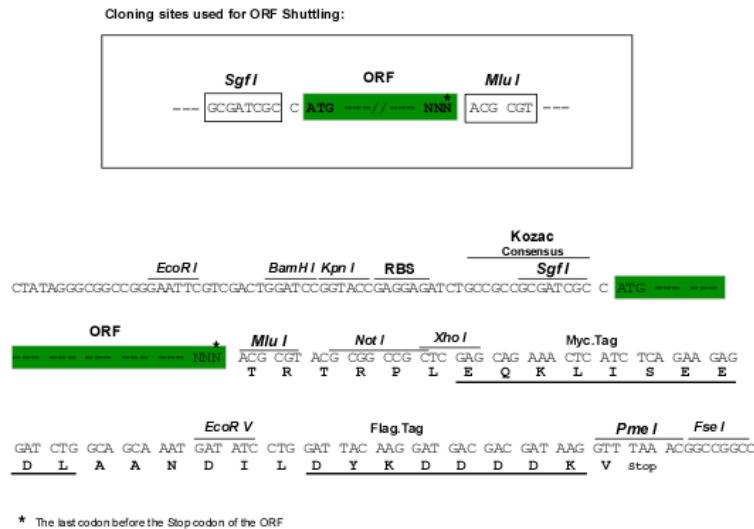
MLTSGLLLVAAVAFSLVLVMSVWKQRKLSGKLPPTPLPFVGNFLQLNTEQMYNSLMKISQRYGPVFT  
 IYLGSRRIIVLVCQETVKEALVDQAEFSGRGEQATFDWLFKGYGIAFSSGERAKQLRRFSITTLRDFGV  
 GKRGIEERIQEEAGFLIDSFRKTNGAFIDPTFYLSRTVSNVISSIVFGDRFDYEDKEFLSLLRMMLGSLQ  
 FTATSMGQVYEMFSSVMKHLPGPQQQAFKELQGLEDFITKKVEHNQRTLDPNSPRDFIDSFLIRMLEEKK  
 NPNTEFYMKNLVLTTLNLFFAGTETVSTTLRYGFLLLMKYPDIEAKVHEEIDRVIGRNRQPKYEDRMKMP  
 YTEAVIHEIQRFADLIPMGLARRVTKDTKFRDFLLPKGTEVFPMLGSVLKDPKFFSNPKDFNPKHFLDDK  
 GQFKKSDAFVPSIGKRYCFGEGLARMELFLFLTNIMQNFHFKSTQEPQDIDVSPRLVGFVTIPPTYTMS  
 FLSR

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

## Cloning Scheme:



ACCN: NM\_009997

ORF Size: 1485 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\\_009997.2](#), [NP\\_034127.2](#)

RefSeq Size: 1715 bp

RefSeq ORF: 1485 bp

Locus ID: 13086

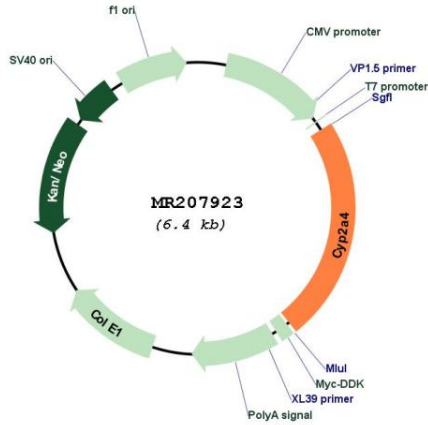
UniProt ID: [P15392](#)

Cytogenetics: 7 14.39 cM

**MW:** 56.8 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 MR207923