

Product datasheet for **RR201892**

Cyp3a2 (NM_153312) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cyp3a2 (NM_153312) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cyp3a2
Synonyms:	Cyp3a11
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR201892 representing NM_153312
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGACCTGCTTTCAGCTCTCACACTGGAACCTGGGTCCTCCTGGCAGTCATCCTGGTGCTTCTCTACC
 GACTTGGAACCCATAGACATGGAATTTTAAAGAAACAAGGAATTCCTGGGCCAAAACCTCTGCCCTTTT
 AGGCACGTGCTGAATTACTACAAGGGCTTAGGGAGATTGACATGGAGTGCTATAAAAAGTATGAAAA
 ATATGGGGTTGTTTGTGGTCAAACGCCTGTGTTTCCCATCATGGACACAGAGATGATTAAGAATGTAC
 TAGTGAAGGAATGCTTTTCTGTCTTACAAACCGCGGGATTTTGGCCAGTGGGATTATGGGAAAGC
 TGTCTCTGTAGCTAAGGATGAGGAGTGAAGAGATATAGAGCCTTGCTGTCCCCACGTTACCAGTGGA
 AGACTCAAGGAGATGTTCCCATCATTTGAACAGTATGGAGACATTTTGGTAAAGTACTTGAAGCAAGAGG
 CGGAGACAGGCAAGCCTGTACCATGAAAAAGTGTGGTGCCTACAGCATGGATGTATCACCAGCAC
 ATCATTTGGAGTGAACGTCGATTCCCTTAACAACCCAAAGGATCCTTTTGTGGAGAAAACCAAGAAATTG
 TTAAGATTGACTTTTTTATCCGTTGTTCTTGTCACTAGTACTCTTCCATTCCCTACCCCAATATATG
 AGATGCTAAATATCTGCATGTTCCCAAAGGATTCAATAGCATTTCCTCAAAAATTTGTGCACAGAATAAA
 GGAAACCCGTCTGGATTCTAAGCATAAGCACCGAGTGGATTTTCTCCAGCTGATGCTGAACGCTCATAAT
 AATTCCAAAGACGAAGTGTCTCATAAAGCCCTGTCTGATGTTGAAATCATAGCCAGTCAGTTATCTTTA
 TTTTGTCTGGCTATGAAACCAACAGCAGCACACTCTCCTTTGTCTTGTATTTCTGGCCACTCACCTGA
 TATTGAGAAGAACTGCAGGAGGAGATCGATGGGGCCCTGCCAGTAAGGCACCTCTACCTACGATATT
 GTGATGGAATGGAATACCTGGATATGGTGTGAATGAACTCTCAGATTGTATCCAATTGGTAATAGAC
 TTGAGAGAGTCTGTAAGAAAGATATAGAACTTGATGGTTTGTATACCCAAAGGTCAGTAGTGACGAT
 TCCAACATATGCTCTTCATCATGACCCACAGCACTGGCCAAAGCCTGAGGAATTTATCCAGAAAGGTTT
 AGCAAGGAGAACAAGGGAAGCATTATCTTATGTATATCTGCCCTTTGAAATGGACCCAGGAAGTGA
 TTGACATGAGGTTTGTCTCATGAATATGAACTCGCTCTCACTAAAGTTCTGCAAACTTCTCCTTCCA
 GCCTTGCAAGGAAACACAGATACCTCTGAAATTGAGTAGACAAGCAATTCTGAACCAGAAAAACCCATT
 GTTCTAAAGTTCTGCCACGGGATGCAGTCATAATGGAGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR201892 representing NM_153312
 Red=Cloning site Green=Tags(s)

MDLLSALTLETWVLLAVILVLLYRLGTHRHGIFKKQGIQPKPLPFLGTVLNYYKGLGRFDMCYKKYK
 IWGLFDGQTPVFAIMDTEMIKNVLKECFSVFTNRRDFGPVIMGKAVSVAKDEEWKRYRALLSPTFTSG
 RLKEMFPPIIEQYGDILVKYLKQEAETGKPVMTMKVFGAYSMDVITSTSGVNVDSLNNPKDPFVEKTKL
 LRFDFDPLFLSVLFPFLTPIYEMLNICMFPKDSIAFFQKFVHRIKETRLDSKHKHRVDFLQLMLNAHN
 NSKDEVSHKALSDVEIIAQSVIFIFAGYETTSSTLSFVLYFLATHPDIQKKLQEEIDGALPSKAPPTYDI
 VMEMEYLDMLNETLRLYPIGNRLERVCKKDIELDGLFIPKGSVVTIPTYALHHPQHWPKPEEFHPERF
 SKENKGSIHYPVYLPFGNGPRNCIDMRFALNMMLKALTKVLQNFSPQCKETQIPLKLSRQAILEPEKPI
 VLKVLPRDAVINGA

TRTRPLE**QKL**ISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_153312

ORF Size: 1512 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_153312.2](#), [NP_695224.2](#)

RefSeq Size: 2036 bp

RefSeq ORF: 1515 bp

Locus ID: 266682

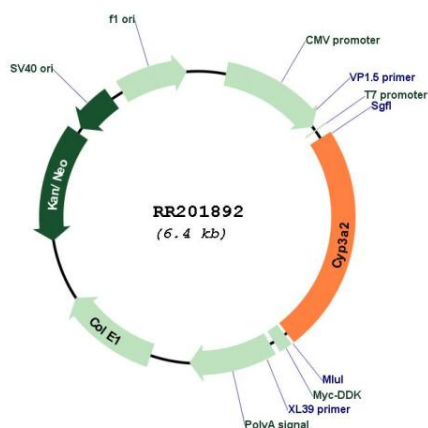
UniProt ID: [P05183](#)

Cytogenetics: 12p11

MW: 57.8 kDa

Gene Summary: catalyzes the conversion of testosterone to 6-beta-hydroxytestosterone [RGD, Feb 2006]

Product images:



Circular map for RR201892