

Product datasheet for **RG234372**

CYP3A7-CYP3A51P (NM_001256497) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CYP3A7-CYP3A51P (NM_001256497) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CYP3A7-CYP3A51P
Synonyms:	CYP3A7; CYP3A7-3AP1; CYP3A7-CYP3AP1; CYP3A7.1L; CYP11A7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG234372 representing NM_001256497
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGATCTCATCCCAAACCTTGGCCGTGGAACCTGGCTTCTCCTGGCTGTGAGCCTGATACTCCTCTATC
 TATATGGAACCCGTACACATGGACTTTTTAAGAAGCTTGAATTCAGGGCCACACCTCTGCCTTTTTT
 GGGAAATGCTTTTGTCTTCCGTAAAGGCTATTGGACGTTTGACATGGAATGTTATAAAAAGTATAGAAAA
 GTCTGGGGTATTTATGACTGTCAACAGCCTATGCTGGCTATCACAGATCCCGACATGATCAAAACAGTGC
 TAGTGAAGAATGTTATTCTGTCTTCAAAACCGAGGCCCTTCGGGCCAGTGGGATTTATGAAAAATGC
 CATCTCTATAGCTGAGGATGAAGAATGGAAGAGAATACGATCATTGCTGTCTCAACATTCACCAGCGGA
 AAACCAAGGAGATGGTCCCTATCATTGCCAGTATGGAGATGTGTTGGTGAGAAATCTGAGGCGGGAAG
 CAGAGACAGGCAAGCCTGTACCTTGAACACGCTTTGGGGCCTACAGCATGGATGTGATCACTAGCAC
 ATCATTTGGAGTGAGCATCGACTCTCTCAACAATCCACAAGACCCCTTTGTGAAAAACCAAGAAGCTT
 TTAAGATTTAATCCATTAGATCCATTCTGTTCTCTCAATAAAAGTCTTTCATTCTTACCCAATTCTTG
 AAGCATTAATATCACTGTGTTTCCAAGAAAAGTTATAAGTTTTCTAACAAAATCTGTAAAAACAGATAAA
 AGAAGGTCGCCTCAAAGAGACACAAAAGCACCGAGTGGATTTCTTCAGCTGATGATTGACTCTCAGAAT
 TCAAAAGACTCTGAGACCCACAAAGCTCTGTCTGATCTGGAGCTCATGGCCCAATCAATTATCTTTATTT
 TTGCTGGCTATGAAACACGAGCAGTGTCTCTCTTCTTATATGAAGTGGCCACTCACCTGATGT
 CCAGCAGAAAGTGAGAGGAAATTGATACAGTTTTACCAATAAGGCACCAACCCACCTATGATACTGTG
 CTACAGTTGGAGTATCTTGACATGGTGGTGAATGAAACACTCAGATTATCCAGTTGCTATGAGACTTG
 AGAGGGCTGCAAAAAAGATGTTGAAATCAATGGGATGTTTATCCCAAAGGGGTGGTGGTATGATTCC
 AAGCTATGTTCTTCATCATGACCCAAAGTACTGGAGAGAGCCTGAGAAGTTCTCCCTGAAAGTTTCAGT
 AAAAAAGACAAGGACAACATAGATCCTTACATATACACACCCCTTTGGAAGTGGACCCAGAAACTGCATTG
 GCATGAGGTTTGTCTCTGTAACATGAACTTGTCTAGTCAGAGTCCTTCAGAACTTCTCTTCAAACC
 TTGTAAGAAACACAGATCCCCCTGAAATTACGCTTTGGAGGACTTCTTCAACAGAAAAACCCATTGTT
 CTAAAGGCTGAGTCAAGGGATGAGACCTTTGTAGATATGGAGCCCATTCATGGACTTTTTAAGAAGCT
 TGGCATTCAGGGCCACACCTCTGCTTTTTTTGGGAAGTACTTTGCTCTACCATCAGATCCCGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG234372 representing NM_001256497
 Red=Cloning site Green=Tags(s)

MDLIPNLAVETWLLAVSLILLYLYGTRTHGLFKKLGIPTPLPFLGNALSFRKGYWTFDMECYKKYRK
 VWGIYDCQQPMLAITDPDMIKTVLVKECYSVFTNRRPFGPVGFMKNAISIAEDEEWKRIRSLSPFTTSG
 KLKEMVPIIAQYGDVLRNLRREAGTGPVTLKHVFGAYSMDVITSTSFVGSIDSLNNPQDPFVENTKKL
 LRFNPLDPFVLSIKVFPFLTPILEALNITVFPKVISFLTKSVKIQKEGRLKETQKHRVDFLQLMIDSQN
 SKDSETHKALSLELMAQSIIFIFAGYETTSSVLSFIIYELATHPDVQKQKEIDTVLPNKAPPTYDTV
 LQLEYLDMVNETLRLFPVAMRLERVCKKDVEINGMFIKGVVVMIPSYVLHHPKYWREPEKFLPERFS
 KKNKDNIDPYIYTPFGSGPRNCIGMRFALVNMKLALVRVLQNFQSFKPKETQIPLKLRFGGLLLEKPIV
 LKAESRDETTFVMEPIHMDFLRLSLAFQGPLCFFWELLCPITRSR

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001256497

ORF Size: 1605 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_001256497.1](#), [NP_001243426.1](#)

RefSeq Size: 2258 bp

RefSeq ORF: 1608 bp

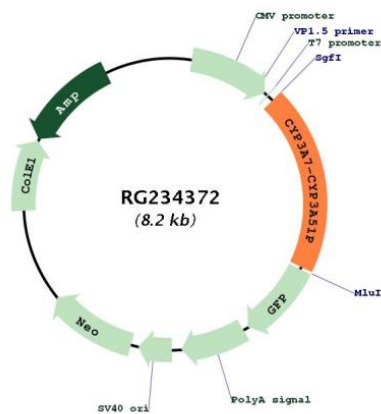
Locus ID: 100861540

UniProt ID: [P24462](#)

Cytogenetics: 7q22.1

Gene Summary:

This locus represents readthrough transcription between the neighboring CYP3A7 (cytochrome P450, family 3, subfamily A, polypeptide 7) and CYP3A51P (cytochrome P450, family 3, subfamily A, polypeptide 51, pseudogene) genes, which are members of the CYP3A gene cluster on chromosome 7. The downstream pseudogene is not known to be independently transcribed. The readthrough transcript includes CYP3A7 exons 1-13 and exons 2 and 13 of the pseudogene. It encodes a CYP3A isoform with a novel C-terminus. This isoform is only expressed in alleles containing a T nucleotide at the -6 position of a splice acceptor in the pseudogene, which enables correct splicing of the upstream CYP3A7 exons to the pseudogene exons. It should be noted that the reference genome sequence represents the CYP3A7_39256 T->A allele, and thus this haplotype is unlikely to produce the readthrough transcript. [provided by RefSeq, Jan 2015]

Product images:


Circular map for RG234372