

Product datasheet for **RG214072**

CYP2U1 (NM_183075) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CYP2U1 (NM_183075) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CYP2U1
Synonyms:	P450TEC; SPG49; SPG56
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG214072 representing NM_183075
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCGTCTCCGGGGCCGTCGCAGCCGCCGGCCGAGGACCCGCCCTGGCCCGCGCCTCTGCGTGCGC
 CTCTGGGGCTGCTGCGGCTGGACCCAGCGGGGCGCGCTGCTGCTATGCGGCCTCGTAGCGCTGCTGGG
 CTGGAGCTGGCTGCGGAGGCGCCGGGCGCGGGGCATCCCGCCGGGCCACGCCCTGGCCTCTGGTGGG
 AACTTCGGTCACGTGCTGCTGCCTCCCTTCTCCGGCGCGGAGCTGGCTGAGCAGCAGGACCAGGGCCG
 CAGGGATTGATCCCTCGGTATAGGCCCGCAGGTGCTCTGGCTCACCTAGCCCGCGTGTACGGCAGCAT
 CTTCAGCTCTTTATCGGCCACTACCTGGTGGTGGTCTCAGCGACTTCCACAGCGTGCCGAGGGCGCTG
 GTGCAGCAGGCCGAGGTCTCAGCGACCCCGCGGGTCCGCTCATCTCCATCGTGACCAAGGAGAAGG
 GGGTTGTGTTGCACATTATGGTCCCGTCTGGAGACAACAAAGGAAGTTCTCTCATTCAACTCTTCGTC
 TTTTGGGTTGGGAAAACCTAGCTTGGAGCCAAGATTATTGAGGAGTTCAAATATGTGAAAGCAGAAATG
 CAAAAGCACGGAGAAGACCCCTTCTGCCCTTCTCCATCATCAGCAATGCCGTCTTAACATCATTGTCT
 CCTTGTGCTTTGGCCAGCGCTTTGATTACACTAATAGTGAGTTCAAGAAAATGCTTGGTTTTATGTCACG
 AGGCCTAGAAATCTGCTGAACAGTCAAGTCTCCTGGTCAACATATGCCCTTGGCTTTATTACCTCCC
 TTTGGACATTTAAGGAATTAAGACAAATTGAAAAGGATATAACCAGTTTCTTAAAAAATCATCAAAG
 ACCATCAAGAGTCTCTGGATAGAGAGAACCCTCAGGACTTCATAGACATGTACCTTCTCCACATGGAAGA
 GGAGAGGAAAAATAAGTAACAGCAGTTTTGATGAAGAGTACTATTTTATATCATTGGGGATCTCTTT
 ATTGCTGGGACTGATACCACAATAACTCTTGGCTCTGGTGCCTGTATATGTCGCTGAACCCCGATG
 TACAAGAAAAGTTTCATGAAGAAATTGAAAGAGTCAATTGGCGCCAACCGAGCTCCTCCCTCACAGACAA
 GGCCAGATGCCCTACACAGAAGCCACCATGGAAGTGCAGAGGCTAACTGTGGTGGTCCCGCTTGCC
 ATTCTCATATGACCTCAGAGAACACAGTCTCCAAGGTATACCATTCTAAAGGCACATTGATCTTAC
 CCAACCTGTGGTCACTACATAGAGACCCAGCCATTTGGGAGAAACCGGAGGATTTCTACCCTAATCGATT
 TCTGGATGACCAAGGACAATAATAAAAAGAAACCTTTATTCTTTTGGGATAGGGAAGCGGGTGTGT
 ATGGGAGAACTGGCAAAGATGGAATTATTCCTAATGTTTGTGAGCCTAATGCAGAGTTTCGCATTTG
 CTTTACCTGAGGATTCTAAGAAGCCCTCCTGACTGGAAGATTTGGTCTAACTTTAGCCCCACATCCATT
 TAATAACTATTTCAAGGAGA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG214072 representing NM_183075
 Red=Cloning site Green=Tags(s)

MSSPGPSQPPAEDPPWPARRLLRAPLGLLRLLDPSGGALLLCGLVALLGWSWLRRRRARGIPPGPWPPLVG
 NFGHVLLPPFLRRRSWLSRTRAAGIDPSVIGPQVLLAHLARVYGSIFSFFIGHYLVVVLSDFHVSREAL
 VQQAQEVFSDRPRVPLISIVTKEKGVVFAHYGPVWRQQRKFSHSTLRHFGLKLSLEPKIIEEFKYVKAEM
 QKHGEDPFCPFSIISNAVSNIIICSLCFGRFDYTNSEFKMLGFMSRGLIICLNSQVLLVNICPWLYYLP
 FGFPELQRQIEKDITSFLKIIKDHQESLDRENPDQFIDMYLLHMEERKNSNSSFDEEYLFYIIGDLF
 IAGTDTTNSLLWCLLYMSLNPVQEKVHEEIERVIGANRAPSLTDKAQMPYTEATIMEVQRLTVVPLA
 IPHMTSENTVLQGYTIPKGTILPNLWSVHRDPAIWEKPEDFYPNRFLDDQGLIKKETIFIPFGIGKRV
 MGEQLAKMELFLMFVSLMQSFAFALPEDSKKPLLTGRFGLTLAPHPFNITISRR

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_183075

ORF Size: 1632 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_183075.3](#)

RefSeq Size: 4760 bp

RefSeq ORF: 1635 bp

Locus ID: 113612

UniProt ID: [Q7Z449](#)

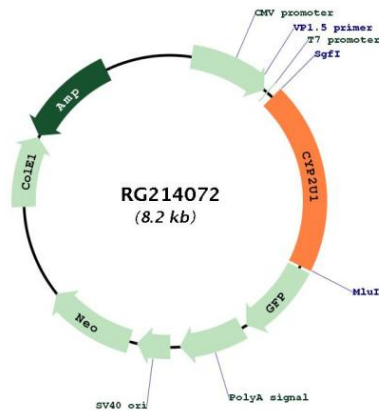
Cytogenetics: 4q25

Protein Families: Druggable Genome, P450, Transmembrane

Protein Pathways: Arachidonic acid metabolism, Metabolic pathways

Gene Summary: This gene encodes a member of the cytochrome P450 superfamily of enzymes. The cytochrome P450 proteins are monooxygenases which catalyze many reactions involved in drug metabolism and synthesis of cholesterol, steroids and other lipids. This enzyme is a hydroxylase that metabolizes arachidonic acid, docosahexaenoic acid, and other long chain fatty acids. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG214072