

Product datasheet for **RG237940**

CYP3A43 (NM_001278921) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CYP3A43 (NM_001278921) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CYP3A43
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG237940 representing NM_001278921. Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGATCTCATTCCAAACTTTGCCATGGAACATGGGTTCTTGTGGCTACCAGCCTGGTACTCCTCTAT
ATTTATGGGACCCATTACATAAACTTTTTAAGAAGCTGGGAATTCCTGGGCCAACCCCTCTGCCTTTT
CTGGGAATTTTTGTTCTACCTTAGGAGGTCTCTGAATAAGATCCCAGCTGGGCGTGGTGGCTCAGC
CCTGTAATCCCAGCACTTTGGGAGGCTGAAGCAGGAGGATCACCTAAGGTCAGGAGTTCGAGACCAGCT
TTGCCAACATGGGTCTTTGGAATTTTGACAGAGAATGTAATGAAAAATACGGAGAAATGTGGGCACTC
TTCCATTTCTTACCCAGTTTTTGAAGCCCTAAATATCGGTTTGTTCCTCCAAAGATGTTACCCATTTT
TTAAAAAATTCCATTGAAAGGATGAAAGAAAGTCGCCTCAAAGATAAACAAAAGCATCGAGTAGATTTT
TTTCAACAGATGATCGACTCCCAGAATTCCAAAGAAACAAAGTCCATAAAGCTCTGTCTGATCTGGAG
CTTGTGGCCAGTCAATTATCATATTTTTGCTGCCTATGACACAACCTAGCACCCTCTCCCTTCATT
ATGTATGAACTGGCCACTCACCTGATGTCCAGCAGAACTGCAGGAGGAGATTGACGCAGTTTTACCC
AATAAGGCACCTGTCACCTACGATGCCCTGGTACAGATGGAGTACCTTGACATGGTGGTGAATGAAACG
CTCAGATTATCCAGTTGTTAGTAGAGTTACGAGAGTCTGCAAGAAAGATATTGAAATCAATGGAGTG
TTCATTCCAAAGGTTAGCAGTATGGTTCCAATCTATGCTCTTACCATGACCCAAAGTACTGGACA
GAGCCTGAGAAGTCTGCCCTGAAAGGTTCAAGTAAAGAACAAGGACAGCATAGATCTTTACAGATAC
ATACCTTTTGGAGCTGGACCCCGAACTGCATTGGCATGAGGTTTGTCTCTCACAACATAAACTTGTCT
GTCATTAGAGCACTGCAGAACTTCTCCTCAAACCTTGTAAAGAGACTCAGATCCCAGTAAATAGAC
AATCTACCAATTCTTCAACCAGAAAAACCTATTGTTCTAAAAGTGCACCTAAGAGATGGGATTACAAGT
GGACCC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTAAAC
```



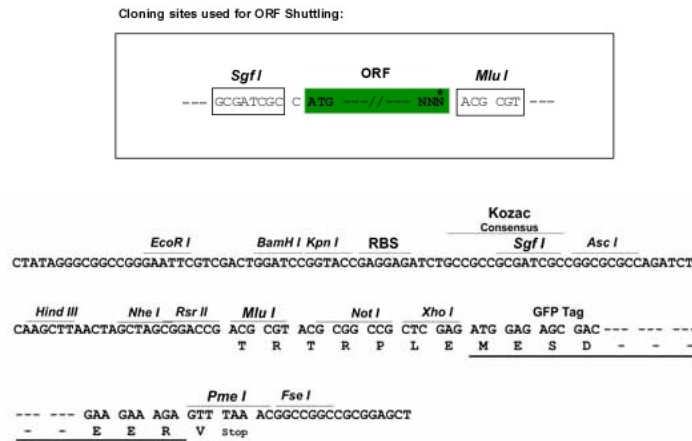
[View online »](#)

Protein Sequence: >Peptide sequence encoded by RG237940
 Blue=ORF Red=Cloning site Green=Tag(s)

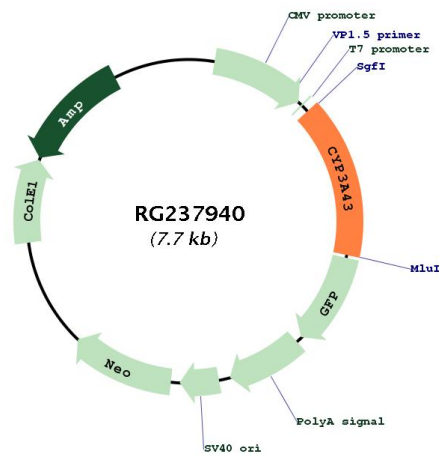
MDLIPNFAMETWVLVATSLVLLYIYGTHSHKLFKLLGIPGPTPLPFLGTILFYLRRLNKPISWAWWLT
 PVIPALWEAEAGGSPKVRSSRPALPTWVFGILTENVMKNTKCGALFPFLTPVFEALNIGLFPKDVTHF
 LKNSIERMKESRLKDKQKHRVDFQMQMIDSDNSKETKSHKALSDLELVAQSIIFAAAYDTSTTLPII
 MYELATHPDVQQLQEEIDAVLPNKAPVTYDALVQMEYLDMMVNETLRLFPVVSrvTRVCKKDIEINGV
 FIPKGLAVMPVIYALHHDPKYWTEPEKFCPERFSKKNKDSIDLRYRYPFGAGPRNCIGMRFALTNIKLA
 VIRALQNFSPKPKETQIPLKLDNLPILQPEKPIVLKVHLRDLGITSGP
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
 SVIFTDKIIRSNTAVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSDMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_001278921
ORF Size:	1179 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).
RefSeq:	NM_001278921.2
RefSeq Size:	1404 bp
RefSeq ORF:	1182 bp
Locus ID:	64816
UniProt ID:	Q9HB55
Cytogenetics:	7q22.1
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Drug metabolism - cytochrome P450, Drug metabolism - other enzymes, Linoleic acid metabolism, Metabolic pathways, Metabolism of xenobiotics by cytochrome P450, Retinol metabolism
MW:	45.3 kDa
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. The encoded protein has a low level of testosterone hydroxylase activity, and may play a role in aging mechanisms and cancer progression. This gene is part of a cluster of cytochrome P450 genes on chromosome 7q21.1. Alternate splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jul 2013]