

Product datasheet for **RG212367**

CYP3A43 (NM_057096) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CYP3A43 (NM_057096) 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:	>RG212367 representing NM_057096 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATCTCATTCCAACTTTGCCATGGAACATGGGTTCTTGTGGCTACCAGCCTGGTACTCCTCTATA
TTTATGGGACCCATTACATAAACTTTTTAAGAAGCTGGGAATTCCTGGGCCAACCCCTCTGCCTTTTCT
GGGAATATTTTGTCTACCTTAGGGTCTTTGGAATTTGACAGAGAATGTAATGAAAAATACGGAGAA
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TAGTAAAAGAATGTTACTCTGTCTTCACAAACAGATGCCTTTAGGTCCAATGGGATTTCTGAAAAGTGC
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TAAAATTGGATTTTTGGATCCCTTTTACTCTTAATATCACTCTTTCCATTTCTACCCAGTTTTTG
AAGCCCTAAATATCGTTTTGTTTCCAAAAGATGTTACCCATTTTTAAAAATTCATTGAAAGGATGAA
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TTGCTGCCTATGACACAAGTACCACTCTCCCTTTCATTATGTATGAAGTGGCCACTACCCCTGATGT
CCAGCAGAAACTGCAGGAGGAGATTGACGCAGTTTTACCCAATAAGGCACCTGTCACCTACGATGCCCTG
GTACAGATGGAGTACCTTGACATGGTGGTGAATGAAACGCTCAGATTATCCCAGTTGTTAGTAGAGTTA
CGAGAGTCTGCAAGAAAGATATTGAAATCAATGGAGTGTTCATTCCAAAGGGTTAGCAGTGTGTTCC
AATCTATGCTCTTACCATGACCCAAAGTACTGGACAGAGCTGAGAAGTTCTGCCCTGAAAGATCCAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG212367 representing NM_057096
 Red=Cloning site Green=Tags(s)

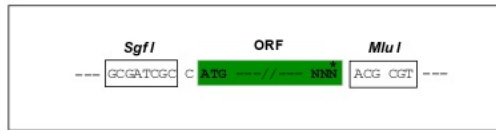
MDLIPNFAMETWVLVATSLVLLYIYGTHSHKLFKKLGIPGPTPLPFLGTILFYLRGLWNFDRECNEYGE
 MWGLYEGQQPMLVIMDPDMIKTVLVKECYSVFTNQMPGLGPMGFLKSALSFAEDEEWKRIKRTLLSPAFTSV
 KFKEMVPIISQCGDMLVRSLRQEAENSKSINLKDFFGAYTMDVITGTLFGVNLDSLNNPQDPFLKNMKKL
 LKLDFLDPFLLLISLFPFLTPVFEALNIGLFPKDVTHFLKNSIERMKESRLKDKQKHRVDFQQMIDSQN
 SKETKSHKALSDELVAQSIIIFAAAYDTTSTLTPFIMYELATHPDVQKQLQEEIDAVLPNKAPVTDAL
 VQMEYLDMVVNETLRLFPVSRVTRVCKKIDIEINGVFIKGLAVMVIYALHHPKYWTEPEKFCPERSH

TRTRPLE - GFP Tag - V

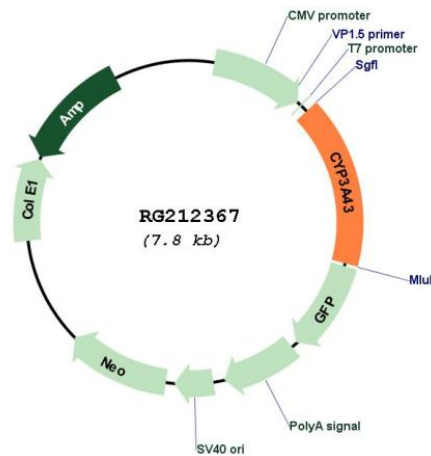
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_057096

ORF Size:	1260 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:	<ol style="list-style-type: none">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_057096.4
RefSeq Size:	2001 bp
RefSeq ORF:	1263 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
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]