

Product datasheet for RG225708

CYP2C18 (NM_001128925) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: CYP2C18 (NM_001128925) Human Tagged ORF Clone
 Tag: TurboGFP
 Symbol: CYP2C18
 Synonyms: CPCI; CYP2C; CYP2C17; P450-6B/29C; P450IIC17
 Mammalian Cell Selection: Neomycin
 Vector: pCMV6-AC-GFP (PS100010)
 E. coli Selection: Ampicillin (100 ug/mL)
 ORF Nucleotide Sequence: >RG225708 representing NM_001128925
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATCCAGCTGTGGCTCTGGTCTGTCTCTCCTGTTTGTCTCCTTTCACTCTGGAGGCAGAGCT
CTGGAAGAGGGAGGCTCCCGTCTGGCCCCACTCCTCTCCCGATTATTGAAAATATCTGCAGTTAGATGT
TAAGGACATGAGCAAATCCTTAACCAATTTCTCAAAAGTCTATGGCCCTGTGTTCACTGTGATTTTGGC
CTGAAGCCATTGTGGTGTGCATGGATATGAAGCAGTGAAGGAGGCCCTGATTGATCATGGAGAGGAGT
TTTCTGGAAGAGGAAGTTTTCCAGTGGCTGAAAAAGTTAACAAAGGACTTGAATCCTTTTCAGCAATGG
AAAGAGATGGAAGGAGATCCGGCGTTCCTGCCTCATGACTCTGCGGAATTTGGGATGGGGAAGAGGAGC
ATCGAGGACCGTGTCAAGAGGAAGCCCCTGCCTTGTGGAGGAGTTGAGAAAACCAATGCCTCACCCCT
GTGATCCCACTTTCATCCTGGGCTGTGCTCCCTGCAATGTGATCTGCTCTGTTATTTCCATGATCGATT
TGATTATAAAGATCAGAGGTTTCTTAACCTGATGGAAAATTCAATGAAAACCTCAGGATTCGAGCTCT
CCATGGATCCAGGAAAAGCAATCAACAGTCTGAATTTACTGTTGAAAGCTTGAAGCCACTGTAAGTGA
ATATGTTGGGCTGGAACAGAGACAACGAGCACCCTGAGATATGGACTCTGCTCTGCTGAAAGTGA
CCCAGAGGTACAGCTAAAGTCCAGGAAGAGATTGAATGTGTAGTTGGCAGAAACCGAGCCCTGTATG
CAGGACAGGAGTCACATGCCCTACACAGATGCTGTGGTGCAGAGATCCAGAGATACATTGACCTCCTCC
CCACCAACTGCCCATGCAGTACCTGTGATGTTAAATTCAAAAACCTCATCCCAAGGGCAGGAC
CATAATAACATCCCTGACTTCTGTGCTGCAATGACAAAAGAATCCCAACCCAGAGATGTTTGACCCCT
GGCCACTTTCTGGATAAGAGTGGCAACTTAAAGAAAAGTACTACTTCATGCCTTTCTCAGCAGGAAAAC
GGATGTGATGGGAGAGGGCCTGGCCCGCATGGAGCTGTTTTATTCTGACCACCATTTGCAGAACTT
TAACCTGAAATCTCAGGTTGACCAAAGGATATTGACATCACCCCATGCAATGCATTTGGTCGTTG
CCACCTTGTAACGACTCTGCTTATTCTGTC

AC**CGGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG225708 representing NM_001128925
 Red=Cloning site Green=Tags(s)

MDPAVALVLCLSCLFLLSLWRQSSGRGRLPSGPTPLPIIGNILQLDVKDMSKSLTNFSKVYGPVFTVYFG
 LKPIVVLHGVEAVKEALIDHGEEFSGRGSFPVAEKVNKGLGILF SNGKRWKEIRRFCLMTLRNFGMGKRS
 IEDRVQEEARCLVEELRKTNASPCDPTF ILGCAPCNVICSVIFHDRFDYKDQRFNLMEKFENLRILSS
 PWIQEKHNQQSEFTVESLIATVDTMFGAGTETTSTTLRYGLLLLLLKYPEVTAKVQEEIECVVGRNRSPCM
 QDRSHMPYTDVAVHEIQRYIDLPTNLPHAVTCDVKFKNYLIPKGTIIITSLTSVLHNDKEFPNPEMFDP
 GHFLDKSGNFKSDYFMPFSAGKRMCMGEGLARMELFLFTTILQNFNLKSQVDPKIDITPIANAFGRV
 PPLYQLCFIPV

TRTRPLE – GFP Tag – V

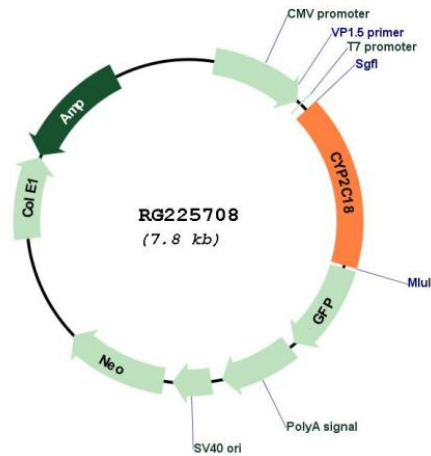
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_001128925

ORF Size:	1293 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_001128925.2
RefSeq Size:	2385 bp
RefSeq ORF:	1296 bp
Locus ID:	1562
UniProt ID:	P33260
Cytogenetics:	10q23.33
Protein Families:	Druggable Genome, P450
Protein Pathways:	Arachidonic acid metabolism, Drug metabolism - cytochrome P450, 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. This protein localizes to the endoplasmic reticulum but its specific substrate has not yet been determined. The gene is located within a cluster of cytochrome P450 genes on chromosome 10q24. An additional gene, CYP2C17, was once thought to exist; however, CYP2C17 is now considered an artefact based on a chimera of CYP2C18 and CYP2C19. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]