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Product datasheet for RC225708

CYP2C18 (NM_001128925) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CYP2C18 (NM_001128925) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CYP2C18
Synonyms:	CPCI; CYP2C; CYP2C17; P450-6B/29C; P450IIC17
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

ORF Nucleotide Sequence:

>RC225708 representing NM_001128925
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGATCCAGCTGTGGCTCTGGTGCTCTGTCTCTCCTGTTTGTTTCTCCTTTCACTCTGGAGGCAGAGCT
CTGGAAGAGGGAGGCTCCCGTCTGGCCCCACTCCTCTCCCGATTATTGGAAATATCCTGCAGTTAGATGT
TAAGGACATGAGCAAATCCTTAACCAATTTCTCAAAAGTCTATGGCCCTGTGTTCACTGTGTATTTTGGC
CTGAAGCCCATTGTGGTGTTGCATGGATATGAAGCAGTGAAGGAGGCCCTGATTGATCATGGAGAGGAGT
TTTCTGGAAGAGGAAGTTTTCCAGTGGCTGAAAAAGTTAACAAAGGACTTGGAATCCTTTTCAGCAATGG
AAAGAGATGGAAGGAGATCCGGCGTTTCTGCCTCATGACTCTGCGGAATTTTGGGATGGGGAAGAGGAGC
ATCGAGGACCGTGTTCAAGAGGAAGCCCGCTGCCTTGTGGAGGAGTTGAGAAAAACCAATGCCTCACCCT
GTGATCCCACTTTCATCCTGGGCTGTGCTCCCTGCAATGTGATCTGCTCTGTTATTTTCCATGATCGATT
TGATTATAAAGATCAGAGGTTTCTTAACTTGATGGAAAAATTCAATGAAAACCTCAGGATTCTGAGCTCT
CCATGGATCCAGGAAAAGCACAATCAACAGTCTGAATTTACTGTTGAAAGCTTGATAGCCACTGTAACTG
ATATGTTTGGGGCTGGAACAGAGACAACGAGCACCACTCTGAGATATGGACTCCTGCTCCTGCTGAAGTA
CCCAGAGGTCACAGCTAAAGTCCAGGAAGAGATTGAATGTGTAGTTGGCAGAAACCGGAGCCCCTGTATG
CAGGACAGGAGTCACATGCCCTACACAGATGCTGTGGTGCACGAGATCCAGAGATACATTGACCTCCTCC
CCACCAACCTGCCCCATGCAGTGACCTGTGATGTTAAATTCAAAAACTACCTCATCCCCAAGGGCACGAC
CATAATAACATCCCTGACTTCTGTGCTGCACAATGACAAAGAATTCCCCAACCCAGAGATGTTTGACCCT
GGCCACTTTCTGGATAAGAGTGGCAACTTTAAGAAAAGTGACTACTTCATGCCTTTCTCAGCAGGAAAAC
GGATGTGTATGGGAGAGGGCCTGGCCCGCATGGAGCTGTTTTTATTCCTGACCACCATTTTGCAGAACTT
TAACCTGAAATCTCAGGTTGACCCAAAGGATATTGACATCACCCCCATTGCCAATGCATTTGGTCGTGTG
CCACCCTTGTACCAGCTCTGCTTCATTCCTGTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC225708 representing NM_001128925
Red=Cloning site Green=Tags(s)

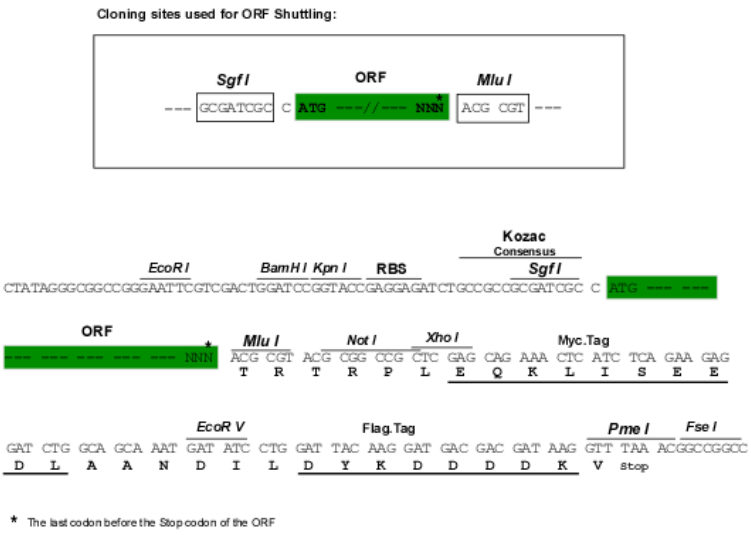
MDPAVALVLCLSCLFLLSLWRQSSGRGRLPSGPTPLPIIGNILQLDVKDMSKSLTNFSKVYGPVFTVYFG
LKPIVVLHGYEAVKEALIDHGEEFSGRGSFPVAEKVNKGLGILFSNGKRWKEIRRFCLMTLRNFGMGKRS
IEDRVQEEARCLVEELRKTNASPCDPTFILGCAPCNVICSVIFHDRFDYKDQRFLNLMEKFNENLRILSS
PWIQEKHNQQSEFTVESLIATVTDMFGAGTETTSTTLRYGLLLLLKYPEVTAKVQEEIECVVGRNRSPCM
QDRSHMPYTDAVVHEIQRYIDLLPTNLPHAVTCDVKFKNYLIPKGTTIITSLTSVLHNDKEFPNPEMFDP
GHFLDKSGNFKKSDYFMPFSAGKRMCMGEGLARMELFLFLTTILQNFNLKSQVDPKDIDITPIANAFGRV
PPLYQLCFIPV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8059_d10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



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:
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 ORF: 1296 bp

Locus ID: 1562

UniProt ID: P33260

Cytogenetics: 10q23.33

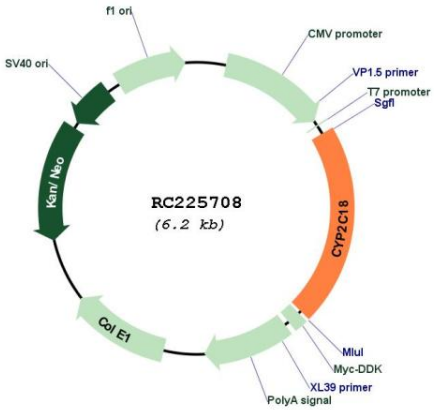
Protein Families: Druggable Genome, P450

Protein Pathways: Arachidonic acid metabolism, Drug metabolism - cytochrome P450, Linoleic acid metabolism, Metabolic pathways, Metabolism of xenobiotics by cytochrome P450, Retinol metabolism

MW: 48.6 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. 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]

Product images:



Circular map for RC225708