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Product datasheet for MG218732

Cyp2c50 (NM_001167875) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cyp2c50 (NM_001167875) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cyp2c50
Synonyms:	AI266900
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>MG218732 representing NM_001167875
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGATCCAATCCTGGTCCTGGTGTTCACCCTCTCCTGTCTGTTTCTCCTCTCACTCTGGAGACAGAGCT
CTGAAAGGGGGAAGCTCCCTCCTGGCCCCACTCCTCTTCCAATTATTGGAAATATCCTTCAGATCAATGT
GAAGGACATCTGCCAATCCTTCACCAATTTATCAAAAGTTTATGGCCCTGTATATACTCTATATTTGGGC
AATAAGCCCACTGTGGTGTTGCATGGATATGAGGCAGTGAAGGAAGCTCTGGTTGACCATGGGGAGGAGT
TTGCTGGAAGAGGAAGGCTCCCAGTTTTTGATAAAGCTACTAATGGAATGGGCATTATATTTAGTAAAGG
AAATGTATGGAAAAACACAAGGCGCTTCTCACTCACGACTCTGCGGAATTTAGGCATGGGAAAAAGGAGC
ATTGAGGACCGTGTTCAAGAGGAAGCACGTTGCCTTGTGGAGGAACTTAGGAAAACCAATGGCTCACCCT
GTGATCCCACCTTCATCCTGGGCTGTGCTCCCTGCAATGTCATCTGCTCAATTATTTTCCAGGATCGTTT
TGATTATAAAGATCGGGATTTTCTTAATTTGATGGAAAAACTGAATGAAATAACCAAGATAATGAGCACC
CCTTGGTTGCAGGAAGACGGCAACTATCCATTGAAAAATAGGCTTGAACACCTGGCAATAACAGTGACTG
ATCTTTTTTCTGCTGGGACAGAGACAACAAGCACAACACTGAGATATGCTCTCCTACTCCTGTTGAAGTA
CCCACATGTCACAGCTAAAGTCCAGGAAGAAATTGAGCATGTGATCGGCAAGCACCGAAGCCCATGCATG
CAGGACAGGAGCCGCATGCCCTATACTGATGCCATGATTCATGAGGTCCAGAGATTCATTGACCTTGTCC
CCAACAGCCTGCCCCATGAAGTGACCTGTGACATTAAATTCAGGAACTACTTCATCCCCAAGGGGACAAA
TGTAATAACATCACTGTCATCAGTGCTGCGTGATAGCAAAGAGTTCCCCAACCCAGAGAAGTTTGACCCT
GGGCACTTTCTAGATGAGAACGGAAAGTTTAAGAAAAGTGACTACTTCATGCCCTTCTCAACAGGAAAAC
GGATATGTGCAGGAGAAGGCCTGGCACGCATGGAGCTGTTCCTATTCCTAACCAGCATTTTACAGAACTT
CAACCTGAAACCTCTGGTTCACCCAAAGGACATAGATGTAACCCCAATGCTCATTGGATTGGCCTCAGTG
CCTCCTGCTTTCCAGCTCTGCTTCATTCCTTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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Protein Sequence:

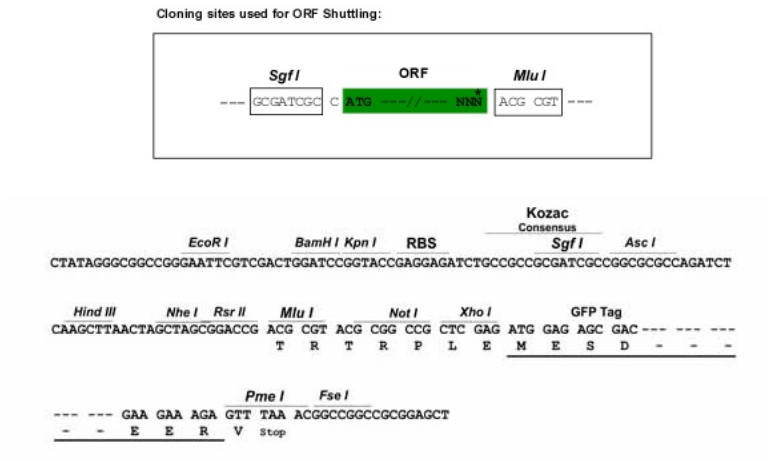
>MG218732 representing NM_001167875
Red=Cloning site Green=Tags(s)

MDPILVLVFTLSCLFLLSLWRQSSERGKLPPGPTPLPIIGNILQINVKDICQSFTNLSKVYGPVYTLYLG
NKPTVVLHGYEAVKEALVDHGEEFAGRGRLPVFDKATNGMGIIFSKGNVWKNTRRFSLTTLRNLGMGKRS
IEDRVQEEARCLVEELRKTNGSPCDPTFILGCAPCNVICSIIFQDRFDYKDRDFLNLMEKLNEITKIMST
PWLQEDGNYPLKNRLEHLAITVTDLFSAGTETTSTTLRYALLLLLKYPHVTAKVQEEIEHVIGKHRSPCM
QDRSRMPYTDAMIHEVQRFIDLVPNSLPHEVTCDIKFRNYFIPKGTNVITSLSSVLRDSKEFPNPEKFDP
GHFLDENGKFKKSDYFMPFSTGKRICAGEGLARMELFLFLTSILQNFNLKPLVHPKDIDVTPMLIGLASV
PPAFQLCFIPS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001167875

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM_001167875.1, NP_001161347.1

RefSeq Size: 1657 bp

RefSeq ORF: 1296 bp

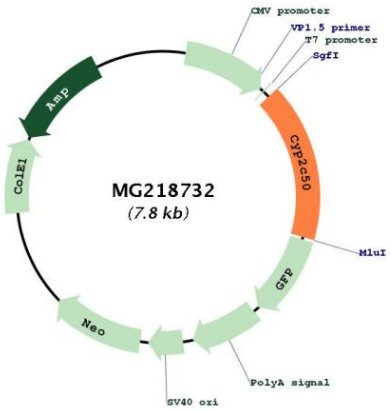
Locus ID: 107141

UniProt ID: Q91X77

Cytogenetics: 19 C3

Gene Summary: Metabolizes arachidonic acid to several midchain and omega-terminal hydroxyeicosatetraenoic acids (HETE).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG218732