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Product datasheet for RN209083

Cyp4v3 (NM_001135600) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cyp4v3 (NM_001135600) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Cyp4v3
Synonyms:	Cyp4v2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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Fully Sequenced ORF:

>RN209083 representing NM_001135600
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTTGTGGCTGTGGTTAGGGCTCAGCGGGCAGAAGCTATTGCTTTGGGGCGCAGCGAGCGCGGTCTCCG
TGGCCGGCGCCACTGTCTTGCTCAACATCCTGCAGATGTTGGTAAGCTATGCACGAAAGTGGCAGCAGAT
GCGGCCAATCCCGTCGGTGGCTCGCGCTTACCCCTTGGTGGGACATGCGCTGTTTATGAAGCCCAACAAC
ACAGAATTTTTTCAGCAGATAATTCAGTACACAGAAGAATTCCGACACCTGCCCATCATTAAACTCTGGA
TTGGACCAGTGCCCCTGGTGGCACTTTATAAGGCAGAGAATGTGGAGGTGATTTTGACCAGTTCGAAGCA
AATTGATAAATCCTTTATGTACAAGTTCCTACAGCCATGGCTGGGACTAGGACTTCTTACAAGTACTGGG
AGCAAATGGCGTGCCAGGAGGAAGATGTTAACACCCAGTTTCCATTTTACAATTCTGGAGGATTTCTTAG
ATGTCATGAATGAGCAAGCAAATATATTGGTTAACAAGCTTGAAAAACATGTCAATCAAGAGGCCTTTAA
CTGCTTTTTCCCCATCACTCTTTGTGCTCTGGATATAATCTGTGAAACGGCTATGGGGAAGAACATTGGA
GCTCAAAGTAATGGTGATTCTGAGTATGTCCGTACAGTGTATAGGATGAGCGATATGATATACAGAAGAA
TGAAGATGCCCTGGTTTTGGTTTGACCTTTGGTACCTTATGTTTAAAGAAGGAAGGGACCACAAAAAGGG
ACTAAAGAGTCTACATACTTTTACCAACAATGTCATTGCTGAACGGGTTAATGCAAGGAAGGCAGAGCAA
GACTGCATAGGTGCTGGGAGGGGTCCTCTCCCCTCGAAAACTAAGCGCAAGGCCTTTCTTGACTTGCTTT
TGAGTGTGACTGATGAGGAAGGAAACAAATTAAGCCATGAAGACATCCGAGAGGAAGTTGACACCTTCAT
GTTTGAGGGTCACGATACAACTGCTGCTGCCATAAACTGGTCCTTATACCTCCTGGGCTCTAATCCAGAA
GTCCAGAGGAAAGTGGACAAGGAGCTGGATGATGTGTTTGGAAGATCCCATCGCCCTGTCACCTTGGAAG
ACCTGAAGAAACTTAAATATCTGGATTGTGTCATTAAGGAGACCCTCCGTGTTTTCCCATCTGTCCCTTT
ATTTGCCCGGAGTCTTAGCGAAGACTGTGAAGTGGCGGGTTACAAAATCTCAAAAGGAACGGAAGCAGTC
ATCATTCCCTATGCACTACATCGAGACCCTAGATACTTCCCAGACCCTGAGGAATTCCAGCCAGAGCGGT
TCTTTCCTGAAAACTCCCAAGGACGCCACCCCTATGCCTATGTGCCATTCTCTGCTGGACCTAGAAACTG
CATTGGTCAAAAGTTTGCGGTCATGGAGGAAAAGACCATTCTTGCCTGTATCCTGAGGGAGTTTTGGATA
GAATCCAACCAGAAGAGAGAAGAACTCGGCCTGGCTGGAGATTTGATTCTTAGGCCAAATAATGGCATCT
GGATCAAGCTGAAGAGGAGGCATGAAGATGACCCCTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001135600

Insert Size: 1578 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_001135600.1, NP_001129072.1
RefSeq Size:	3216 bp
RefSeq ORF:	1578 bp
Locus ID:	266761
UniProt ID:	A2RRT9
Cytogenetics:	16q11
Gene Summary:	Omega-hydroxylase that oxidizes medium-chain saturated fatty acids and polyunsaturated omega-3 fatty acids, and which plays a role in fatty acid and steroid metabolism in the eye. Catalyzes the omega-hydroxylation of medium-chain saturated fatty acids such as laurate, myristate and palmitate in an NADPH-dependent pathway. The substrate specificity is higher for myristate > laurate > palmitate (C14>C16>C12). Acts as a polyunsaturated omega-3 fatty acids hydroxylase by mediating oxidation of docosahexaenoate (DHA) to 22-hydroxydocosahexaenoate. Also produces some 21-hydroxydocosahexaenoate. Also converts eicosapentaenoate (EPA) to 20-hydroxyeicosapentaenoate (20-OH-EPA).[UniProtKB/Swiss-Prot Function]