

Product datasheet for **SC329477**

Cytochrome P450 2C8 (CYP2C8) (NM_001198855) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cytochrome P450 2C8 (CYP2C8) (NM_001198855) Human Untagged Clone
Tag: Tag Free
Symbol: CYP2C8
Synonyms: CPC8; CYP2C8DM; CYP1IC8; MP-12/MP-20
Vector: pCMV6-Entry (PS100001)
Fully Sequenced ORF: >SC329477 representing NM_001198855.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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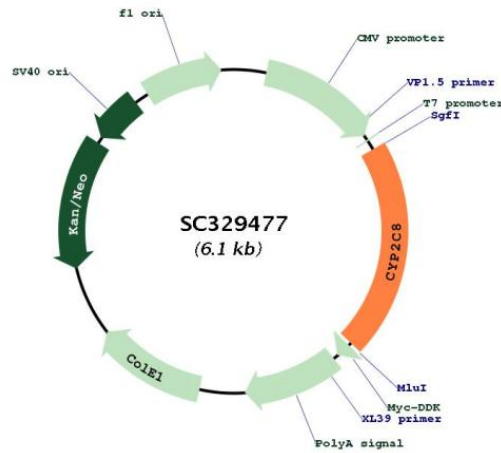
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GATGATTTAAAGAACCTCAATACTACTGCAGTTACCAAAGGGATTGTTTCTGCCACCCTCATACCAG
ATCTGCTTCATCCCTGTCTGA
  
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Restriction Sites: SgfI-MluI



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Plasmid Map:



ACCN: NM_001198855

Insert Size: 1263 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_001198855.1](#)

RefSeq Size: 2024 bp

RefSeq ORF: 1263 bp

Locus ID: 1558

UniProt ID:	P10632
Cytogenetics:	10q23.33
Protein Families:	Druggable Genome, P450, Transmembrane
Protein Pathways:	Arachidonic acid metabolism, Drug metabolism - cytochrome P450, Linoleic acid metabolism, Metabolic pathways, Metabolism of xenobiotics by cytochrome P450, Retinol metabolism
MW:	47.8 kDa
Gene Summary:	<p>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 and its expression is induced by phenobarbital. The enzyme is known to metabolize many xenobiotics, including the anticonvulsive drug mephenytoin, benzo(a)pyrene, 7-ethoxycoumarin, and the anti-cancer drug taxol. This gene is located within a cluster of cytochrome P450 genes on chromosome 10q24. Several transcript variants encoding a few different isoforms have been found for this gene. [provided by RefSeq, Nov 2010]</p> <p>Transcript Variant: This variant (4) differs in the 5' UTR and coding sequence compared to variant 1. The resulting isoform (b) is shorter at the N-terminus compared to isoform a. Variants 2 and 4 both encode the same isoform (b).</p>