

Product datasheet for **SC126279**

FMO2 (NM_001460) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FMO2 (NM_001460) Human Untagged Clone
Tag:	Tag Free
Symbol:	FMO2
Synonyms:	FMO1B1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF: >OriGene sequence for NM_001460 edited
 ACAACCAAGGGAGAAAACCTATTCTGTCAAAGAGACGGTGCCAAAAGGCAAAAACAAAGGA
 GCTGATGGCAAAGAAGGTAGCTGTGATTGGAGCTGGGGTCAGTGGCCTAATTTCTCTGAA
 GTGCTGTGTGGATGAGGGACTTGAGCCCACTTGCTTTGAGAGAAGTGAAGATATTGGAGG
 AGTGTGGAGGTTCAAAGAGAATGTGGAAGATGGCCGAGCAAGTATCTATCAATCTGTCGT
 TACCAACACCAGCAAAGAAATGCCTGTTTCAGTGACTTTCCAATGCCTGAAGATTTTTCC
 AAACCTCTGCATAATTCTAAACTTCTGGAATATTTTCAGGATTTTTGCTAAAAAATTTGA
 TCTGCTAAAAATATTTTCAGTTCCAGACAAGTGCCTTAGTGTGAGAAAATGTCCAGATTT
 CTCATCCTCTGGCCAATGGAAGGTTGCTACTCAGAGCAACGGCAAGGAGCAGAGTGTCTGT
 CTTTGACGCAGTTATGGTTTGCAGTGGCCACCACATTCTACCTCATATCCCACTGAAGTC
 ATTTCCAGGTATGGAGAGGTTCAAAGGCCAATATTTCCATAGCCGCCAATACAAGCATCC
 AGATGGATTTGAGGGAAAACGCATCCTGGTATTGGAATGGGAAACTCAGGCTCAGATAT
 TGCTGTTGAGCTGAGTAAGAATGCTGCTCAGGTTTTTATCAGCACCAGGCATGGCACCTG
 GGTGATGAGCCGATCTCTGAAGATGGCTATCCTTGGGACTCAGTGTCCACACCCGGTT
 TCGTTCTATGCTCCGCAATGACTGCCACGAACAGCTGTAAAATGGATGATAGAACAACA
 GATGAATCGGTGGTTCAACCATGAAAATATGGCCTTGAGCCTCAAAAACAATACATTAT
 GAAGGAACCTGTACTAAATGATGATGTCCCAAGTCGTCTACTCTGTGGAGCCATCAAGGT
 GAAATCTACAGTGAAGAGCTCACAGAACTTCTGCCATCTTTGAGGATGGAACAGTGGGA
 GGAGAACATTGATGTCATCATTTTTGCAACAGGATATAGTTTCTCTTTCCCTTCCTTGA
 AGATTTCACTCGTTAAAGTAGAGAATAATATGGTCTCACTGTATAAATACATATTTCCCGC
 TCACCTGGACAAGTCAACCTCGCGTGCATTGGTCTCATCCAGCCCTAGGTTCCATTTT
 CCCAAGTCTGAACCTCAAGCTCGTTGGGTGACAAGAGTTTTCAAAGGCTTGTGTAGCCT
 GCCCTCAGAGAGAACTATGATGATGGACATTATCAAAGGAATGAAAAAAGAATTGACCT
 GTTTGGAGAAAAGCCAGAGCCAGACGTTGCAGACCAATTATGTTGACTACTTGGACGAGCT
 CGCCTTAGAGATAGGTGCGAAGCCAGATTTCTGCTCTCTTGTCAAAGATCCTAAACT
 GGCTGTGAGACTTATTTTCGACCTGCAACTCCTATTAGTATCGCCTGGTTGGGCCTGG
 GCAATGGGAAGGAGCCAGAAATGCCATCTTCAACCAGAAAACAAGAATACTGAAGCCACT
 CAAGACTCGGGCCCTGAAGGATTCATCTAATTTCTCAGTTTTCTTTCTGTTGAAAATCCT
 GGGCCTTCTTGTGTTGTTGGCCTTTTTTTGCCAACTCAATGGTCTAGTCAGCATA
 ATGCTTTGGGCTTATTATCTTGTGACTACTACCTCCTAAAAAAAAAAAAAAAAAAAAA
 AAAAAA

5' Read Nucleotide Sequence: >OriGene 5' read for NM_001460 unedited
 GTTCAGGAATTTGTAATACGACTCCACTATAGGCGGCCGCGCAATTCGCCATTACGGCCG
 GGGACAACCAAGGAGAAAACCTATTGTGTCAAAGAACGGTGCCAAAAGGCAAAAACAAAGG
 AGCTGATGGCAAAGAAGGTAGCTGTGATTGGAGCTGGGGTCAGTGGCCTAATTTCTCTGA
 AGTGTGTGGATGAGGGACTTGAGCCCACTTGCTTTGAGAGAAGTGAAGATATTGGAGG
 GAGTGTGGAGGTTCAAAGAGAATGTGGAAGATGGCCGAGCAAGTATCTATCAATCTGTCG
 TTACCAACACCAGCAAAGAAATGCCTGTTTCAGTGACTTTCCAATGCCTGAAGATTTTC
 CAAACTTCTGCATAATTCTAAACTTCTGGAATATTTTCAGGATTTTTGCTAAAAAATTTG
 ATCTGCTAAAATATATTCAGTTCCAGACAAGTGCCTTAGTGTGAGAAAATGTCCAGATT
 TCTCATCTCTGGCCAATGGAAGGTTGCTACTCAAAGCAACGGCAAGGAGCAGAGTGTCTG
 TCTTTGACGCAGTTATGGTTTGCAGTGGCCACCACATTCTACCTCATATCCCACTGAAGT
 CATTTCCAGGTATGGAGAGGTTCAAAGGCCAATATTTCCATAGCCGCCAATACAAGCATC
 CAGATGGATTTGAGGGAAAACGCATCCTGGTATTGGAATGGGAAACTCANGCTCANATA
 TTGCTGTTGAGCTGAGTAAGAATGCTGCTCANGTGTATCAGCACCAGCATGGCACCTG
 GGTGATGAGCCCTATCTCTGAGATGGCTATCCTTGGGACTCANTGTTCCACACCGTTTT
 GTTCATGCTCCGCATGACTGCCACAACAGCTGTAAAATGGTGTAGGACAACGATGAAT
 CGTTGGTCAACCTGAAAATATGGGCCTTAGCCTCAAACAATACTTATGA

Restriction Sites: Please inquire
ACCN: NM_001460

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:	<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_001460.2 , NP_001451.1
RefSeq Size:	5181 bp
RefSeq ORF:	1416 bp
Locus ID:	2327
UniProt ID:	Q99518
Cytogenetics:	1q24.3
Protein Pathways:	Drug metabolism - cytochrome P450
Gene Summary:	<p>This gene encodes a flavin-containing monooxygenase family member. It is an NADPH-dependent enzyme that catalyzes the N-oxidation of some primary alkylamines through an N-hydroxylamine intermediate. However, some human populations contain an allele (FMO2*2A) with a premature stop codon, resulting in a protein that is C-terminally-truncated, has no catalytic activity, and is likely degraded rapidly. This gene is found in a cluster with other related family members on chromosome 1. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2014]</p> <p>Transcript Variant: This variant (1), which represents the functional FMO2*1 allele, is the longer transcript and encodes the longer isoform (a).</p>