

Product datasheet for **SC335103**

Heme oxygenase 2 (HMOX2) (NM_001286271) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Heme oxygenase 2 (HMOX2) (NM_001286271) Human Untagged Clone
Tag:	Tag Free
Symbol:	Heme oxygenase 2
Synonyms:	HO-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001286271, the custom clone sequence may differ by one or more nucleotides

ATGGCTGACCTCTCGGAGCTCCTGAAGGAAGGGACCAAGGAAGCACACGACCGGGCAGAAAAACCCAGT
 TTGTCAAGGACTTCTTGAAAGGCAACATTAAGAAGGAGCTGTTTAAGCTGGCCACCACGGCACTTTACTT
 CACATACTCAGCCCTCGAGGAGGAAATGGAGCGCAACAAGGACCATCCAGCCTTTGCCCTTTGTACTTC
 CCCATGGAGCTGCACCGGAAGGAGGCGCTGACCAAGGACATGGAGTATTTCTTTGGTGAAAACCTGGGAGG
 AGCAGGTGCAGTGCCCCAAGGCTGCCAGAAGTACGTGGAGCGGATCCACTACATAGGGCAGAACGAGCC
 GGAGCTACTGGTGGCCCATGCATACACCGCTACATGGGGGATCTCTCGGGGGCCAGGTGCTGAAGAAG
 GTGGCCAGCGAGCACTGAACTCCCCAGCACAGGGGAAGGGACCCAGTTCTACCTGTTTGAGAATGTGG
 ACAATGCCAGCAGTTCAAGCAGCTCTACCGGGCCAGGATGAACGCCCTGGACCTGAACATGAAGACCAA
 AGAGAGGATCGTGGAGGAGGCCAACAAGGCTTTTGAGTATAACATGCAGATATTCAATGAACTGGACCAG
 GCCGGCTCCACTGGCCAGAGAGACCTTGGAGGATGGGTTCCCTGTACACGATGGGAAAGGAGACATGC
 GTAAATGCCCTTTCTACGCTGCTGAACAAGACAAAGGTGCCCTGGAGGGCAGCAGCTGTCCTTCCGAAC
 AGCTATGGCTGTGCTGAGGAAGCCAGCCTCCAGTTCATCCTGGCCGCTGGTGTGGCCCTAGCTGCTGGA
 CTCTTGGCCTGGTACTACATGTA

Restriction Sites:	SgfI-MluI
ACCN:	NM_001286271
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).


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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:	<u>NM_001286271.1, NP_001273200.1</u>
RefSeq Size:	1627 bp
RefSeq ORF:	864 bp
Locus ID:	3163
UniProt ID:	<u>P30519</u>
Cytogenetics:	16p13.3
Protein Families:	Transmembrane
Protein Pathways:	Porphyrin and chlorophyll metabolism
Gene Summary:	<p>Heme oxygenase, an essential enzyme in heme catabolism, cleaves heme to form biliverdin, which is subsequently converted to bilirubin by biliverdin reductase, and carbon monoxide, a putative neurotransmitter. Heme oxygenase activity is induced by its substrate heme and by various nonheme substances. Heme oxygenase occurs as 2 isozymes, an inducible heme oxygenase-1 and a constitutive heme oxygenase-2. HMOX1 and HMOX2 belong to the heme oxygenase family. Several alternatively spliced transcript variants encoding three different isoforms have been found for this gene. [provided by RefSeq, Oct 2013]</p> <p>Transcript Variant: This variant (9) differs in the 5' UTR and coding sequence compared to variant 5. The resulting isoform (c) is shorter at the N-terminus compared to isoform a.</p>