

Product datasheet for **SC320297**

Heme Oxygenase 1 (HMOX1) (NM_002133) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Heme Oxygenase 1 (HMOX1) (NM_002133) Human Untagged Clone
Tag:	Tag Free
Symbol:	Heme Oxygenase 1
Synonyms:	bK286B10; HMOX1D; HO-1; HSP32
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF: >OriGene sequence for NM_002133 edited
 CTCTCGAGCGTCTCAGCGCAGCCGCCCGCCGCGGAGCCAGCACGAACGAGCCCAGCACC
 GGCCGGATGGAGCGTCCGCAACCCGACAGCATGCCCCAGGATTTGTCAGAGGCCCTGAAG
 GAGGCCACCAAGGAGGTGCACACCCAGGCAGAGAATGCTGAGTTCATGAGGAACTTTAG
 AAGGGCCAGGTGACCCGAGACGGCTTCAAGCTGGTGATGGCCCTCCCTGTACCACATCTAT
 GTGGCCCTGGAGGAGGATTGAGCGCAACAAGGAGAGCCAGTCTTCGCCCTGTCTAC
 TTCCCAGAAGAGCTGCACCGCAAGGCTGCCCTGGAGCAGGACCTGGCCTTCTGGTACGGG
 CCCCCTGGCAGGAGGTATCCCTACACACCAGCCATGCAGCACTATGTGAAGCGGCTC
 CACGAGGTGGGGCGCACAGAGCCGAGCTGCTGGTGGCCACGCCTACACCCGCTACCTG
 GGTGACCTGTCTGGGGCCAGGTGCTCAAAAAGATTGCCAGAAAAGCCCTGGACCTGCC
 AGCTCTGGCGAGGGCCTGGCCTTCTTACCTTCCCAACATTGCCAGTCCACCAAGTTC
 AAGCAGCTCTACCGCTCCCGCATGAACTCCCTGGAGATGACTCCCGCAGTCAGGCAGAGG
 GTGATAGAAGAGGCCAAGACTGCGTTCCTGCTCAACATCCAGCTCTTTGAGGAGTTGCAG
 GAGCTGCTGACCCATGACACCAAGGACCAGAGCCCTCACGGGCACCAGGGCTTCGCCAG
 CGGGCCAGCAACAAAGTGAAGATTCTGCCCCGTGGAGACTCCAGAGGGAAGCCCCCA
 CTAAACACCCGCTCCAGGCTCCGCTTCTCCGATGGGTCCCTTACACTCAGCTTTCTGGTG
 GCGACAGTTGCTGTAGGGCTTTATGCCATGTGAATGCAGGCATGCTGGCTCCCAGGGCCA
 TGAACCTTTGTCCGGTGAAGGCCTTCTTTCTAGAGAGGGAATTCTTTGGCTGGCTTCT
 TACCGTGGGCACTGAAGGCTTTTCCAGGGCTCCAGCCCTCTCACTGTGCCCTCTCTCTGG
 AAAGGAGGAAGGAGCCTATGGCATCTTCCCAACGAAAAGCACATCCAGGCAATGGCCTA
 AACTTCAGAGGGGGCGAAGGGATCAGCCCTGCCCTTCCAGCATCCTCAGTTCCTGCAGCAG
 AGCCTGGAAGACACCCTAATGTGGCAGCTGTCTCAAACCTCCAAAAGCCCTGAGTTTCAA
 GTACTTGTGACACGGCCATGACCACCTTCCCGTGGGCCATGGCAATTTTTACACAA
 ACCTGAAAAGATGTTGTGCTTGTGTTTTGTCTTATTTTTGTTGGAGCCACTCTGTTCC
 TGGCTCAGCCTCAATGCAGTATTTTTGTTGTGTTCTGTTGTTTTATAGAGGGTTGGG
 GTGGTTTTTTGAGCCATGCGTGGGTGGGAGGGAGGTGTTAACGGCACTGTGGCCTTGG
 TCTAACTTTTGTGTAATAATAACAACATTGTCTGATAGTAAAAAAAAAAAAAAAAAAAA
 AAAAAAAAAAAAAAA

- Restriction Sites:** Please inquire
- ACCN:** NM_002133
- Insert Size:** 1600 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).
- OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
- 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_002133.1 , NP_002124.1
RefSeq Size:	1550 bp
RefSeq ORF:	867 bp
Locus ID:	3162
UniProt ID:	P09601
Cytogenetics:	22q12.3
Domains:	Heme_oxygenase
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Porphyrin and chlorophyll metabolism
Gene Summary:	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. [provided by RefSeq, Jul 2008]