

Product datasheet for RC225451

Heme oxygenase 2 (HMOX2) (NM_001127204) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Heme oxygenase 2 (HMOX2) (NM_001127204) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Heme oxygenase 2
Synonyms:	HO-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC225451 representing NM_001127204 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCAGCGGAAGTGAAACCTCAGAGGGGTAGACGAGTCAGAAAAAAGAAGTCTGGGGCCCTAGAAA
AGGAGAACCAAATGAGAATGGCTGACCTCTCGGAGCTCCTGAAGGAAGGGACCAAGGAAGCACACGACCG
GGCAGAAAACACCCAGTTTGTCAAGGACTTCTTGAAAGGCAACATTAAGAAGGAGCTGTTTAAGCTGGCC
ACCACGGCACTTTACTTCACATACTCAGCCCTCGAGGAGGAAATGGAGCGCAACAAGGACCATCCAGCCT
TTGCCCTTTGTACTTCCCATGGAGCTGCACCGAAGGAGGCGCTGACCAAGGACATGGAGTATTTCTT
TGGTGAAAAGTGGGAGGAGCAGGTGCAGTGCCCAAGGCTGCCAGAAAGTACGTGGAGCGGATCCACTAC
ATAGGGCAGAACGAGCCGGAGCTACTGGTGGCCCATGCATACACCCGCTACATGGGGGATCTCTCGGGG
GCCAGGTGCTGAAGAAGGTGGCCAGCGAGCACTGAAACTCCCCAGCACAGGGGAAGGGACCCAGTTCTA
CCTGTTTGAGAAATGTGGACAATGCCAGCAGTTCAAGCAGCTCTACCGGGCCAGGATGAACGCCCTGGAC
CTGAACATGAAGACCAAGAGAGGATCGTGGAGGAGGCCAACAAGGCTTTTGAGTATAACATGCAGATAT
TCAATGAACTGGACCAGGCCGCTCCACTGGCCAGAGAGACCTTGGAGGATGGGTTCCCTGTACACGA
TGGGAAAGGAGACATGCGTAAATGCCCTTCTACGCTGCTGAACAAGACAAGGTGCCCTGGAGGGCAGC
AGCTGTCCCTCCGAACAGCTATGGCTGTGCTGAGGAAGCCAGCCTCCAGTTCATCCTGGCCGCTGGTG
TGCCCTAGCTGCTGGACTCTTGGCCTGGTACTACATG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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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_001127204.1](#), [NP_001120676.1](#)

RefSeq ORF: 951 bp

Locus ID: 3163

UniProt ID: [P30519](#)

Cytogenetics: 16p13.3

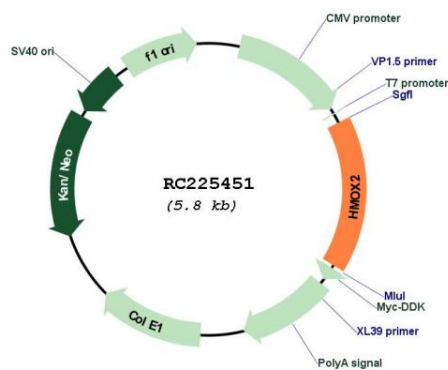
Protein Families: Transmembrane

Protein Pathways: Porphyrin and chlorophyll metabolism

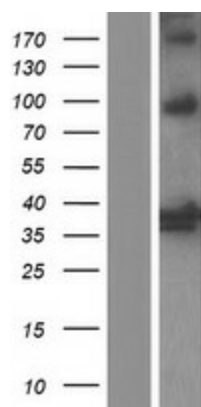
MW: 35.9 kDa

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. Several alternatively spliced transcript variants encoding three different isoforms have been found for this gene. [provided by RefSeq, Oct 2013]

Product images:



Circular map for RC225451



Western blot validation of overexpression lysate (Cat# [LY426709]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC225453] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).