

OriGene Technologies, Inc.

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Product datasheet for RC225452

Heme oxygenase 2 (HMOX2) (NM_001127205) Human Tagged ORF Clone

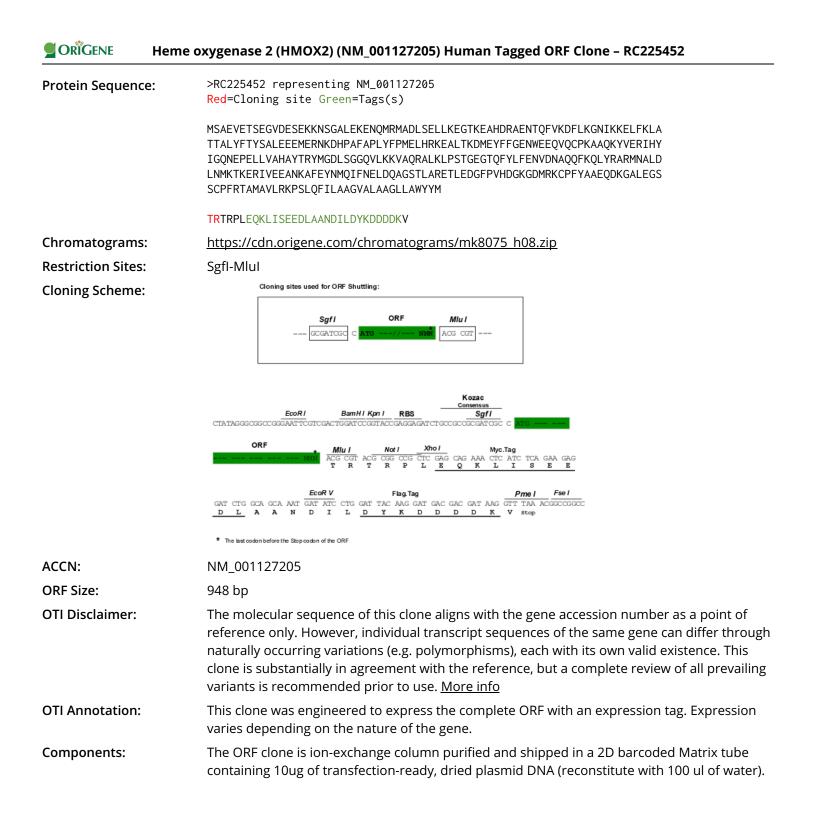
Product data:

Expression Plasmids
Heme oxygenase 2 (HMOX2) (NM_001127205) Human Tagged ORF Clone
Myc-DDK
Heme oxygenase 2
HO-2
Neomycin
pCMV6-Entry (PS100001)
Kanamycin (25 ug/mL)
<pre>>RC225452 representing NM_001127205 Red=Cloning site Blue=ORF Green=Tags(s)</pre>
TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAG**GTTTAA**



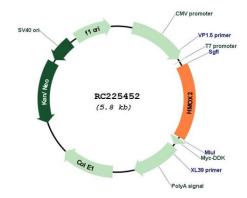
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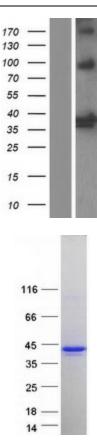
	oxygenase 2 (HMOX2) (NM_001127205) Human Tagged ORF Clone – RC225452
Reconstitution Method:	 Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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 001127205.1, NP 001120677.1</u>
RefSeq Size:	1776 bp
RefSeq ORF:	951 bp
Locus ID:	3163
UniProt ID:	<u>P30519</u>
Cytogenetics:	16p13.3
Protein Families:	Transmembrane
Protein Pathways:	Porphyrin and chlorophyll metabolism
MW:	36 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 RC225452

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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]).

Coomassie blue staining of purified HMOX2 protein (Cat# [TP325452]). The protein was produced from HEK293T cells transfected with HMOX2 cDNA clone (Cat# RC225452) using MegaTran 2.0 (Cat# [TT210002]).

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