

Product datasheet for MR223322L4

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Hmox2 (NM 001136066) Mouse Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Hmox2 (NM_001136066) Mouse Tagged Lenti ORF Clone

Tag: mGFP Symbol: Hmox2

Synonyms: HO-2; HO2

Mammalian Cell Puromycin

Selection:

Vector: pLenti-C-mGFP-P2A-Puro (PS100093)

E. coli Selection: Chloramphenicol (34 ug/mL)

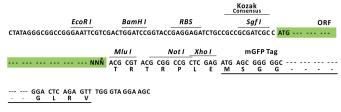
ORF Nucleotide The ORF insert of this clone is exactly the same as(MR223322).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:



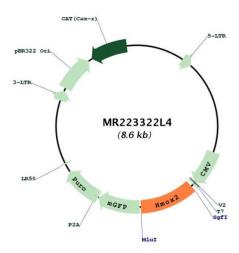


^{*} The last codon before the Stop codon of the ORF.





Plasmid Map:



ACCN: NM_001136066

ORF Size: 948 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of

reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing

variants is recommended prior to use. More info

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression

varies depending on the nature of the gene.

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: 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 001136066.2, NP 001129538.1</u>

RefSeq Size: 1258 bp RefSeq ORF: 948 bp



Hmox2 (NM_001136066) Mouse Tagged Lenti ORF Clone - MR223322L4

 Locus ID:
 15369

 UniProt ID:
 070252

 Cytogenetics:
 16 2.46 cM

Gene Summary: Heme oxygenase cleaves the heme ring at the alpha methene bridge to form biliverdin.

Biliverdin is subsequently converted to bilirubin by biliverdin reductase. Under physiological

conditions, the activity of heme oxygenase is highest in the spleen, where senescent

erythrocytes are sequestrated and destroyed. Heme oxygenase 2 could be implicated in the

production of carbon monoxide in brain where it could act as a neurotransmitter.

[UniProtKB/Swiss-Prot Function]