

Product datasheet for **MR203944L4V**

Hmox1 (NM_010442) Mouse Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Hmox1 (NM_010442) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Hmox1
Synonyms:	D8Wsu38e; Hemox; Hmox; HO-1; HO1; Hsp32
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_010442
ORF Size:	867 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR203944).
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.
RefSeq:	NM_010442.1
RefSeq Size:	1564 bp
RefSeq ORF:	870 bp
Locus ID:	15368
UniProt ID:	P14901
Cytogenetics:	8 C1



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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 sequestered and destroyed. Exhibits cytoprotective effects since excess of free heme sensitizes cells to undergo apoptosis.[UniProtKB/Swiss-Prot Function]