

Product datasheet for **MR215484L4V**

Nox3 (NM_198958) Mouse Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Nox3 (NM_198958) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Nox3
Synonyms:	GP91-3; het; nmf25; nmf250
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_198958
ORF Size:	1704 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR215484).
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_198958.2 , NP_945196.2
RefSeq Size:	1792 bp
RefSeq ORF:	1707 bp
Locus ID:	224480
UniProt ID:	Q672J9
Cytogenetics:	17 2.05 cM



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Gene Summary:

This gene encodes a member of the NOX family of NADPH oxidases. These enzymes catalyze the transfer of electrons from NADPH to molecular oxygen to produce superoxide and other reactive oxygen species (ROS). The ROS generated by family members have been implicated in numerous biological functions including host defense, posttranslational processing of proteins, cellular signaling, regulation of gene expression, and cell differentiation. The protein encoded by this gene is expressed predominantly in the inner ear and is involved in the biogenesis of otoconia, which are crystalline structures of the inner ear involved in the perception of gravity and linear acceleration. In mouse mutations of this gene lead to the absence of otoconia and vestibular dysfunction. [provided by RefSeq, Jun 2013]