

Product datasheet for **TR506659**

Nox3 Mouse shRNA Plasmid (Locus ID 224480)

Product data:

Product Type:	shRNA Plasmids
Product Name:	Nox3 Mouse shRNA Plasmid (Locus ID 224480)
Locus ID:	224480
Synonyms:	GP91-3; het; nmf25; nmf250
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	Nox3 - Mouse, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 224480). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	BC106862 , NM_198958 , NM_198958.1 , NM_198958.2
UniProt ID:	Q672J9
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]
shRNA Design:	These shRNA constructs were designed against multiple splice variants at this gene locus. To be certain that your variant of interest is targeted, please contact techsupport@origene.com . If you need a special design or shRNA sequence, please utilize our custom shRNA service .



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**Performance
Guaranteed:**

OriGene guarantees that the sequences in the shRNA expression cassettes are verified to correspond to the target gene with 100% identity. One of the four constructs at minimum are guaranteed to produce 70% or more gene expression knock-down provided a minimum transfection efficiency of 80% is achieved. Western Blot data is recommended over qPCR to evaluate the silencing effect of the shRNA constructs 72 hrs post transfection. To properly assess knockdown, the gene expression level from the included scramble control vector must be used in comparison with the target-specific shRNA transfected samples.

For non-conforming shRNA, requests for replacement product must be made within ninety (90) days from the date of delivery of the shRNA kit. To arrange for a free replacement with newly designed constructs, please contact Technical Services at techsupport@origene.com. Please provide your data indicating the transfection efficiency and measurement of gene expression knockdown compared to the scrambled shRNA control (Western Blot data preferred).