

Product datasheet for **MR225961L3V**

Otol1 (NM_001018031) Mouse Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Otol1 (NM_001018031) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Otol1
Synonyms:	Gm414
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-Myc-DDK-P2A-Puro (PS100092)
Tag:	Myc-DDK
ACCN:	NM_001018031
ORF Size:	1446 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR225961).
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_001018031.2 , NP_001018041.2
RefSeq Size:	2161 bp
RefSeq ORF:	1449 bp
Locus ID:	229389
UniProt ID:	Q4ZJM7
Cytogenetics:	3 E2



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Gene Summary:

Collagen-like protein specifically expressed in the inner ear, which provides an organic scaffold for otoconia, a calcium carbonate structure in the saccule and utricle of the ear (PubMed:21655225, PubMed:24748133, PubMed:29076638). Acts as a scaffold for biomineralization: sequesters calcium and forms interconnecting fibrils between otoconia that are incorporated into the calcium crystal structure (PubMed:21655225, PubMed:24748133, PubMed:29076638). Together with OC90, modulates calcite crystal morphology and growth kinetics (PubMed:24748133).[UniProtKB/Swiss-Prot Function]