

Product datasheet for **RC222135L4V**

Otoferlin (OTOF) (NM_194322) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Otoferlin (OTOF) (NM_194322) Human Tagged ORF Clone Lentiviral Particle
Symbol:	Otoferlin
Synonyms:	AUNB1; DFNB6; DFNB9; FER1L2; NSRD9
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_194322
ORF Size:	3921 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC222135).
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_194322.2
RefSeq Size:	5123 bp
RefSeq ORF:	3924 bp
Locus ID:	9381
UniProt ID:	Q9HC10
Cytogenetics:	2p23.3
Protein Families:	Druggable Genome, Transmembrane
MW:	148.9 kDa


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Gene Summary:

Mutations in this gene are a cause of neurosensory nonsyndromic recessive deafness, DFNB9. The short form of the encoded protein has 3 C2 domains, a single carboxy-terminal transmembrane domain found also in the *C. elegans* spermatogenesis factor FER-1 and human dysferlin, while the long form has 6 C2 domains. The homology suggests that this protein may be involved in vesicle membrane fusion. Several transcript variants encoding multiple isoforms have been found for this gene. [provided by RefSeq, Jul 2008]