

## Product datasheet for **RC222135L3V**

### 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-Myc-DDK-P2A-Puro (PS100092)   |
| Tag:                      | Myc-DDK  |
| 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. <a href="#">More info</a> |
| 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:                   | <a href="#">NM_194322.2</a>  |
| RefSeq Size:              | 5123 bp  |
| RefSeq ORF:               | 3924 bp  |
| Locus ID:                 | 9381   |
| UniProt ID:               | <a href="#">Q9HC10</a>   |
| 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]