

## Product datasheet for **MR226724L3V**

### Ret (NM\_009050) Mouse Tagged ORF Clone Lentiviral Particle

#### Product data:

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Type:             | Lentiviral Particles                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Product Name:             | Ret (NM_009050) Mouse Tagged ORF Clone Lentiviral Particle                                                                                                                                                                                                                                                                                                                                                                                         |
| Symbol:                   | Ret                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Synonyms:                 | c-Ret; PTC; RET9; RET51                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Mammalian Cell Selection: | Puromycin                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Vector:                   | pLenti-C-Myc-DDK-P2A-Puro (PS100092)                                                                                                                                                                                                                                                                                                                                                                                                               |
| Tag:                      | Myc-DDK                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| ACCN:                     | NM_009050                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| ORF Size:                 | 3345 bp                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| ORF Nucleotide Sequence:  | The ORF insert of this clone is exactly the same as(MR226724).                                                                                                                                                                                                                                                                                                                                                                                     |
| 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_009050.2</a> , <a href="#">NP_033076.2</a>                                                                                                                                                                                                                                                                                                                                                                                          |
| RefSeq Size:              | 6064 bp                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| RefSeq ORF:               | 3348 bp                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Locus ID:                 | 19713                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| UniProt ID:               | <a href="#">P35546</a>                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Cytogenetics:             | 6 55.86 cM                                                                                                                                                                                                                                                                                                                                                                                                                                         |



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**Gene Summary:**

Receptor tyrosine-protein kinase involved in numerous cellular mechanisms including cell proliferation, neuronal navigation, cell migration, and cell differentiation upon binding with glial cell derived neurotrophic factor family ligands. Phosphorylates PTK2/FAK1. Regulates both cell death/survival balance and positional information. Required for the molecular mechanisms orchestration during intestine organogenesis; involved in the development of enteric nervous system and renal organogenesis during embryonic life, and promotes the formation of Peyer's patch-like structures, a major component of the gut-associated lymphoid tissue. Modulates cell adhesion via its cleavage by caspase in sympathetic neurons and mediates cell migration in an integrin (e.g. ITGB1 and ITGB3)-dependent manner. Involved in the development of the neural crest. Active in the absence of ligand, triggering apoptosis through a mechanism that requires receptor intracellular caspase cleavage. Acts as a dependence receptor; in the presence of the ligand GDNF in somatotrophs (within pituitary), promotes survival and down regulates growth hormone (GH) production, but triggers apoptosis in absence of GDNF. Regulates nociceptor survival and size. Triggers the differentiation of rapidly adapting (RA) mechanoreceptors. Mediator of several diseases such as neuroendocrine cancers; these diseases are characterized by aberrant integrins-regulated cell migration. Mediates, through interaction with GDF15-receptor GFRAL, GDF15-induced cell-signaling in the brainstem which induces inhibition of food-intake. Activates MAPK- and AKT-signaling pathways (PubMed:28846099).[UniProtKB/Swiss-Prot Function]