# Product datasheet for RC227352L4V

## IRAK4 (NM_001145257) Human Tagged ORF Clone Lentiviral Particle

## Product data:

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|---|---|
| **Product Type:** | Lentiviral Particles |
| **Product Name:** | IRAK4 (NM_001145257) Human Tagged ORF Clone Lentiviral Particle |
| **Symbol:** | IRAK4 |
| **Synonyms:** | IMD67; IPD1; IRAK-4; NY-REN-64; REN64 |
| **Mammalian Cell Selection:** | Puromycin |
| **Vector:** | pLenti-C-mGFP-P2A-Puro (PS100093) |
| **Tag:** | mGFP |
| **ACCN:** | NM_001145257 |
| **ORF Size:** | 1383 bp |
| **ORF Nucleotide Sequence:** | The ORF insert of this clone is exactly the same as(RC227352). |
| **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_001145257.1, NP_001138729.1 |
| **RefSeq Size:** | 4157 bp |
| **RefSeq ORF:** | 1011 bp |
| **Locus ID:** | 51135 |
| **UniProt ID:** | Q9NWZ3 |
| **Cytogenetics:** | 12q12 |
| **Protein Families:** | Druggable Genome, Protein Kinase |
| **Protein Pathways:** | Apoptosis, Neurotrophin signaling pathway, Toll-like receptor signaling pathway |

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**MW:**          51.5 kDa

**Gene Summary:**          This gene encodes a kinase that activates NF-kappaB in both the Toll-like receptor (TLR) and T-cell receptor (TCR) signaling pathways. The protein is essential for most innate immune responses. Mutations in this gene result in IRAK4 deficiency and recurrent invasive pneumococcal disease. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Aug 2011]