# Product datasheet for MR209813L1

## Ripk1 (NM_009068) Mouse Tagged Lenti ORF Clone

## Product data:

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|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | Ripk1 (NM_009068) Mouse Tagged Lenti ORF Clone |
| **Tag:** | Myc-DDK |
| **Symbol:** | Ripk1 |
| **Synonyms:** | D330015H01Rik; Rinp; RIP; RIP-1; Rip1 |
| **Mammalian Cell Selection:** | None |
| **Vector:** | pLenti-C-Myc-DDK (PS100064) |
| **E. coli Selection:** | Chloramphenicol (34 ug/mL) |
| **ORF Nucleotide Sequence:** | The ORF insert of this clone is exactly the same as(MR209813). |
| **Restriction Sites:** | SgfI-MluI |
| **Cloning Scheme:** | |

Cloning sites used for ORF Shuttling:

*Sgf I* --- ORF --- *Mlu I*
--- GCG ATC GC C ATG --- // --- NNN ACG CGT ---

*EcoR I* --- *BamH I* --- RBS --- Kozak Consensus *Sgf I* --- ORF
CTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGC C ATG --- --- ---

*Mlu I* --- *Not I* --- *Xho I* --- Myc.Tag
--- --- --- --- --- --- NNN ACG CGT ACG CGG CCG CTC GAG CAG AAA CTC ATC TCA GAA GAG
T R T R P L E Q K L I S E E

DDK.Tag
GAT CTG GCA GCA AAT GAT ATC CTG GAT TAC AAG GAT GAC GAC GAT AAG GTT TAA ACGGCCGGCC
D L A A N D I L D Y K D D D D K V Stop

\* The last codon before the Stop codon of the ORF.

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| **ACCN:** | NM_009068 |
| **ORF Size:** | 1971 bp |

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| **OTI Disclaimer:** | Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery. |
| | 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. |
| **Components:** | The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water). |
| **Reconstitution Method:** | 1. Centrifuge at 5,000xg for 5min.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C. |
| **RefSeq:** | NM_009068.3, NP_033094.3 |
| **RefSeq Size:** | 4512 bp |
| **RefSeq ORF:** | 1971 bp |
| **Locus ID:** | 19766 |
| **UniProt ID:** | Q60855 |
| **Cytogenetics:** | 13 14.01 cM |

**Gene Summary:** Serine-threonine kinase which transduces inflammatory and cell-death signals (programmed necrosis) following death receptors ligation, activation of pathogen recognition receptors (PRRs), and DNA damage (PubMed:12654725, PubMed:19590578). Upon activation of TNFR1 by the TNF-alpha family cytokines, TRADD and TRAF2 are recruited to the receptor (By similarity). Phosphorylates DAB2IP at 'Ser-728' in a TNF-alpha-dependent manner, and thereby activates the MAP3K5-JNK apoptotic cascade (By similarity). Ubiquitination by TRAF2 via 'Lys-63'-link chains acts as a critical enhancer of communication with downstream signal transducers in the mitogen-activated protein kinase pathway and the NF-kappa-B pathway, which in turn mediate downstream events including the activation of genes encoding inflammatory molecules (By similarity). Polyubiquitinated protein binds to IKBKG/NEMO, the regulatory subunit of the IKK complex, a critical event for NF-kappa-B activation (By similarity). Interaction with other cellular RHIM-containing adapters initiates gene activation and cell death (By similarity). RIPK1 and RIPK3 association, in particular, forms a necrosis-inducing complex (By similarity).[UniProtKB/Swiss-Prot Function]

## Product images:
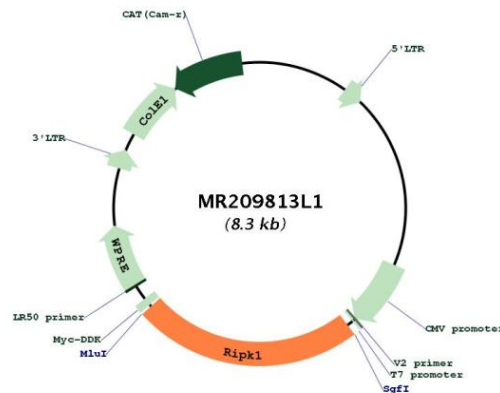


Circular map for MR209813L1
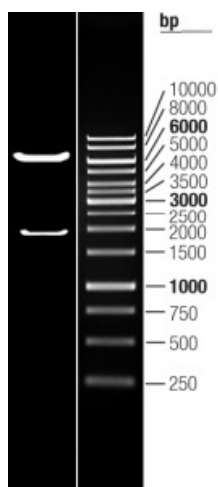
Double digestion of MR209813L1 using SgfI and MluI