

## Product datasheet for **RC217213L3V**

### **TAB1 (NM\_153497) Human Tagged ORF Clone Lentiviral Particle**

#### **Product data:**

|                           |  |
|---------------------------|--|
| Product Type:             | Lentiviral Particles   |
| Product Name:             | TAB1 (NM_153497) Human Tagged ORF Clone Lentiviral Particle  |
| Symbol:                   | TAB1   |
| Synonyms:                 | 3'-Tab1; MAP3K7IP1   |
| Mammalian Cell Selection: | Puromycin  |
| Vector:                   | pLenti-C-Myc-DDK-P2A-Puro (PS100092)   |
| Tag:                      | Myc-DDK  |
| ACCN:                     | NM_153497  |
| ORF Size:                 | 1386 bp  |
| ORF Nucleotide Sequence:  | The ORF insert of this clone is exactly the same as(RC217213).   |
| 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_153497.2</a>  |
| RefSeq Size:              | 1994 bp  |
| RefSeq ORF:               | 1389 bp  |
| Locus ID:                 | 10454  |
| UniProt ID:               | <a href="#">Q15750</a>   |
| Cytogenetics:             | 22q13.1  |
| Protein Families:         | Druggable Genome   |



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|--------------------------|--|
| <b>Protein Pathways:</b> | MAPK signaling pathway, NOD-like receptor signaling pathway, Toll-like receptor signaling pathway  |
| <b>MW:</b>               | 49.7 kDa   |
| <b>Gene Summary:</b>     | <p>The protein encoded by this gene was identified as a regulator of the MAP kinase kinase kinase MAP3K7/TAK1, which is known to mediate various intracellular signaling pathways, such as those induced by TGF beta, interleukin 1, and WNT-1. This protein interacts and thus activates TAK1 kinase. It has been shown that the C-terminal portion of this protein is sufficient for binding and activation of TAK1, while a portion of the N-terminus acts as a dominant-negative inhibitor of TGF beta, suggesting that this protein may function as a mediator between TGF beta receptors and TAK1. This protein can also interact with and activate the mitogen-activated protein kinase 14 (MAPK14/p38alpha), and thus represents an alternative activation pathway, in addition to the MAPKK pathways, which contributes to the biological responses of MAPK14 to various stimuli. Alternatively spliced transcript variants encoding distinct isoforms have been reported. [provided by RefSeq, Jul 2008]</p> |