

## Product datasheet for **MR210987L4V**

### Sh3rf1 (BC060113) Mouse Tagged ORF Clone Lentiviral Particle

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Lentiviral Particles   |
| Product Name:             | Sh3rf1 (BC060113) Mouse Tagged ORF Clone Lentiviral Particle   |
| Symbol:                   | Sh3rf1   |
| Synonyms:                 | 2200003J05Rik; Posh; R75531; Sh3md2  |
| Mammalian Cell Selection: | Puromycin  |
| Vector:                   | pLenti-C-mGFP-P2A-Puro (PS100093)  |
| Tag:                      | mGFP   |
| ACCN:                     | BC060113   |
| ORF Size:                 | 2583 bp  |
| ORF Nucleotide Sequence:  | The ORF insert of this clone is exactly the same as(MR210987).   |
| 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="#">BC060113</a> , <a href="#">AAH60113</a>  |
| RefSeq Size:              | 5074 bp  |
| RefSeq ORF:               | 2585 bp  |
| Locus ID:                 | 59009  |
| Cytogenetics:             | 8 B3.1   |



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**Gene Summary:**

Has E3 ubiquitin-protein ligase activity. In the absence of an external substrate, it can catalyze self-ubiquitination. Stimulates ubiquitination of potassium channel KCNJ1, enhancing its dynamin-dependent and clathrin-independent endocytosis (By similarity). Acts as a scaffold protein that coordinates with MAPK8IP1/JIP1 in organizing different components of the JNK pathway, including RAC1 or RAC2, MAP3K11/MLK3 or MAP3K7/TAK1, MAP2K7/MKK7, MAPK8/JNK1 and/or MAPK9/JNK2 into a functional multiprotein complex to ensure the effective activation of the JNK signaling pathway. Regulates the differentiation of CD4(+) and CD8(+) T-cells and promotes T-helper 1 (Th1) cell differentiation. Regulates the activation of MAPK8/JNK1 and MAPK9/JNK2 in CD4(+) T-cells and the activation of MAPK8/JNK1 in CD8(+) T-cells (PubMed:23963642, PubMed:27084103, PubMed:9482736). Plays a crucial role in the migration of neocortical neurons in the developing brain. Controls proper cortical neuronal migration and the formation of proximal cytoplasmic dilation in the leading process (PCDLP) in migratory neocortical neurons by regulating the proper localization of activated RAC1 and F-actin assembly (PubMed:22959435).[UniProtKB/Swiss-Prot Function]