

## Product datasheet for **MR217427L4V**

### Depdc5 (NM\_001170567) Mouse Tagged ORF Clone Lentiviral Particle

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Lentiviral Particles   |
| Product Name:             | Depdc5 (NM_001170567) Mouse Tagged ORF Clone Lentiviral Particle   |
| Symbol:                   | Depdc5   |
| Synonyms:                 | AV016528   |
| Mammalian Cell Selection: | Puromycin  |
| Vector:                   | pLenti-C-mGFP-P2A-Puro (PS100093)  |
| Tag:                      | mGFP   |
| ACCN:                     | NM_001170567   |
| ORF Size:                 | 4773 bp  |
| ORF Nucleotide Sequence:  | The ORF insert of this clone is exactly the same as(MR217427).   |
| 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_001170567.1</a> , <a href="#">NP_001164038.1</a>  |
| RefSeq Size:              | 7944 bp  |
| RefSeq ORF:               | 4776 bp  |
| Locus ID:                 | 277854   |
| UniProt ID:               | <a href="#">P61460</a>   |
| Cytogenetics:             | 5 17.35 cM   |



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**Gene Summary:**

As a component of the GATOR1 complex functions as an inhibitor of the amino acid-sensing branch of the TORC1 pathway. The GATOR1 complex strongly increases GTP hydrolysis by RRAGA and RRAGB within RRAGC-containing heterodimers, thereby deactivating RRAGs, releasing mTORC1 from lysosomal surface and inhibiting mTORC1 signaling. The GATOR1 complex is negatively regulated by GATOR2 the other GATOR subcomplex in this amino acid-sensing branch of the TORC1 pathway.[UniProtKB/Swiss-Prot Function]