

## Product datasheet for **MR207355L3V**

### **Fktn (NM\_139309) Mouse Tagged ORF Clone Lentiviral Particle**

#### **Product data:**

|                           |  |
|---------------------------|--|
| Product Type:             | Lentiviral Particles   |
| Product Name:             | Fktn (NM_139309) Mouse Tagged ORF Clone Lentiviral Particle  |
| Symbol:                   | Fktn   |
| Synonyms:                 | D830030O17Rik; Fcmd  |
| Mammalian Cell Selection: | Puromycin  |
| Vector:                   | pLenti-C-Myc-DDK-P2A-Puro (PS100092)   |
| Tag:                      | Myc-DDK  |
| ACCN:                     | NM_139309  |
| ORF Size:                 | 1386 bp  |
| ORF Nucleotide Sequence:  | The ORF insert of this clone is exactly the same as(MR207355).   |
| 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_139309.2</a> , <a href="#">NP_647470.1</a>  |
| RefSeq Size:              | 3382 bp  |
| RefSeq ORF:               | 1386 bp  |
| Locus ID:                 | 246179   |
| UniProt ID:               | <a href="#">Q8R507</a>   |
| Cytogenetics:             | 4 28.74 cM   |



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**Gene Summary:**

Catalyzes the transfer of CDP-ribitol to the distal N-acetylgalactosamine of the phosphorylated O-mannosyl trisaccharide (N-acetylgalactosamine-beta-3-N-acetylglucosamine-beta-4-(phosphate-6-)mannose), a carbohydrate structure present in alpha-dystroglycan (DAG1) (PubMed:12471058). This constitutes the first step in the formation of the ribitol 5-phosphate tandem repeat which links the phosphorylated O-mannosyl trisaccharide to the ligand binding moiety composed of repeats of 3-xylosyl-alpha-1,3-glucuronic acid-beta-1 (By similarity). Required for normal location of POMGNT1 in Golgi membranes, and for normal POMGNT1 activity (PubMed:19017726). May interact with and reinforce a large complex encompassing the outside and inside of muscle membranes (PubMed:19017726, PubMed:22922256). Could be involved in brain development (Probable). [UniProtKB/Swiss-Prot Function]