

## Product datasheet for **MR223754L4V**

### Mag (NM\_010758) Mouse Tagged ORF Clone Lentiviral Particle

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Lentiviral Particles   |
| Product Name:             | Mag (NM_010758) Mouse Tagged ORF Clone Lentiviral Particle   |
| Symbol:                   | Mag  |
| Synonyms:                 | Gm; Gma; sigle; siglec-4a  |
| Mammalian Cell Selection: | Puromycin  |
| Vector:                   | pLenti-C-mGFP-P2A-Puro (PS100093)  |
| Tag:                      | mGFP   |
| ACCN:                     | NM_010758  |
| ORF Size:                 | 1749 bp  |
| ORF Nucleotide Sequence:  | The ORF insert of this clone is exactly the same as(MR223754).   |
| 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_010758.2</a> , <a href="#">NP_034888.1</a>  |
| RefSeq Size:              | 2427 bp  |
| RefSeq ORF:               | 1749 bp  |
| Locus ID:                 | 17136  |
| UniProt ID:               | <a href="#">P20917</a>   |
| Cytogenetics:             | 7 19.26 cM   |



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**Gene Summary:**

This gene encodes a type I membrane protein and member of the immunoglobulin-like superfamily. It is expressed in myelinating glial cells, including oligodendrocytes of the central nervous system and Schwann cells of the peripheral nervous system. Mice lacking the encoded protein express abundant myelin, but suffer long-term axon degeneration, altered distribution of channels and adhesion molecules at nodes of Ranvier, and altered axon cytoskeletal structure. While not required for myelination, the encoded protein enhances axon-myelin stability, helps to structure nodes of Ranvier, and regulates the axon cytoskeleton. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2016]