

## Product datasheet for **MR224724L4V**

### Ptgds (NM\_008963) Mouse Tagged ORF Clone Lentiviral Particle

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Lentiviral Particles   |
| Product Name:             | Ptgds (NM_008963) Mouse Tagged ORF Clone Lentiviral Particle   |
| Symbol:                   | Ptgds  |
| Synonyms:                 | 21kDa; L-PGDS; PGD2; PGDS; PGDS2; Ptgs3  |
| Mammalian Cell Selection: | Puromycin  |
| Vector:                   | pLenti-C-mGFP-P2A-Puro (PS100093)  |
| Tag:                      | mGFP   |
| ACCN:                     | NM_008963  |
| ORF Size:                 | 567 bp   |
| ORF Nucleotide Sequence:  | The ORF insert of this clone is exactly the same as(MR224724).   |
| 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_008963.2</a>  |
| RefSeq Size:              | 806 bp   |
| RefSeq ORF:               | 570 bp   |
| Locus ID:                 | 19215  |
| UniProt ID:               | <a href="#">O09114</a>   |
| Cytogenetics:             | 2 17.28 cM   |



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**Gene Summary:**

Catalyzes the conversion of PGH2 to PGD2, a prostaglandin involved in smooth muscle contraction/relaxation and a potent inhibitor of platelet aggregation. Involved in a variety of CNS functions, such as sedation, NREM sleep and PGE2-induced allodynia, and may have an anti-apoptotic role in oligodendrocytes. Binds small non-substrate lipophilic molecules, including biliverdin, bilirubin, retinal, retinoic acid and thyroid hormone, and may act as a scavenger for harmful hydrophobic molecules and as a secretory retinoid and thyroid hormone transporter. Possibly involved in development and maintenance of the blood-brain, blood-retina, blood-aqueous humor and blood-testis barrier. It is likely to play important roles in both maturation and maintenance of the central nervous system and male reproductive system.[UniProtKB/Swiss-Prot Function]