

Product datasheet for **MR217480L4V**

Daam2 (NM_001008231) Mouse Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Daam2 (NM_001008231) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Daam2
Synonyms:	2310016D11Rik; AI843643; AW557870
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_001008231
ORF Size:	3345 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR217480).
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. More info
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:	NM_001008231.2 , NP_001008232.2
RefSeq Size:	6045 bp
RefSeq ORF:	3348 bp
Locus ID:	76441
UniProt ID:	Q80U19
Cytogenetics:	17 C



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Gene Summary:

Key regulator of the Wnt signaling pathway, which is required for various processes during development, such as dorsal patterning, determination of left/right symmetry or myelination in the central nervous system (PubMed:22227309, PubMed:24091014, PubMed:25754822). Acts downstream of Wnt ligands and upstream of beta-catenin (CTNNB1) (PubMed:22227309, PubMed:25754822). Required for canonical Wnt signaling pathway during patterning in the dorsal spinal cord by promoting the aggregation of Disheveled (Dvl) complexes, thereby clustering and formation of Wnt receptor signalosomes and potentiating Wnt activity (PubMed:22227309). During dorsal patterning of the spinal cord, inhibits oligodendrocytes differentiation via interaction with PIP5K1A (PubMed:25754822). Also regulates non-canonical Wnt signaling pathway (PubMed:24091014). Acts downstream of PITX2 in the developing gut and is required for left/right asymmetry within dorsal mesentery: affects mesenchymal condensation by lengthening cadherin-based junctions through WNT5A and non-canonical Wnt signaling, inducing polarized condensation in the left dorsal mesentery necessary to initiate gut rotation (PubMed:24091014). Together with DAAM1, required for myocardial maturation and sarcomere assembly (PubMed:26526197).[UniProtKB/Swiss-Prot Function]