

Product datasheet for **MR210644L4V**

Plcd3 (NM_152813) Mouse Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Plcd3 (NM_152813) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Plcd3
Synonyms:	2610205J15Rik; mKIAA1964
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_152813
ORF Size:	2358 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR210644).
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_152813.2 , NP_690026.1
RefSeq Size:	3031 bp
RefSeq ORF:	2358 bp
Locus ID:	72469
UniProt ID:	Q8K2J0
Cytogenetics:	11 66.71 cM



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Gene Summary:

Hydrolyzes the phosphatidylinositol 4,5-bisphosphate (PIP₂) to generate 2 second messenger molecules diacylglycerol (DAG) and inositol 1,4,5-trisphosphate (IP₃). DAG mediates the activation of protein kinase C (PKC), while IP₃ releases Ca²⁺ from intracellular stores. Essential for trophoblast and placental development. May participate in cytokinesis by hydrolyzing PIP₂ at the cleavage furrow.[UniProtKB/Swiss-Prot Function]