

Product datasheet for **MR218532L4V**

Prex2 (NM_029525) Mouse Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Prex2 (NM_029525) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Prex2
Synonyms:	6230420N16Rik; AI316880; AI553603; C030045D06Rik; D430013K02; Depdc2; P-Rex2
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_029525
ORF Size:	4794 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR218532).
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_029525.1 , NP_083801.1
RefSeq Size:	11057 bp
RefSeq ORF:	4797 bp
Locus ID:	109294
UniProt ID:	Q3LAC4
Cytogenetics:	1 A2



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Gene Summary:

Functions as a RAC1 guanine nucleotide exchange factor (GEF), activating Rac proteins by exchanging bound GDP for free GTP. Its activity is synergistically activated by phosphatidylinositol 3,4,5-trisphosphate and the beta gamma subunits of heterotrimeric G protein. Mediates the activation of RAC1 in a PI3K-dependent manner. May be an important mediator of Rac signaling, acting directly downstream of both G protein-coupled receptors and phosphoinositide 3-kinase (By similarity).[UniProtKB/Swiss-Prot Function]