

Product datasheet for **MR224276L4V**

Ddr1 (NM_172962) Mouse Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Ddr1 (NM_172962) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Ddr1
Synonyms:	6030432F18; AI323681; Cak; CD167a; Nep; PTK3A
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_172962
ORF Size:	2622 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR224276).
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_172962.1 , NP_766550.1
RefSeq Size:	3703 bp
RefSeq ORF:	2625 bp
Locus ID:	12305
UniProt ID:	Q03146
Cytogenetics:	17 18.7 cM



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Gene Summary:

Tyrosine kinase that functions as cell surface receptor for fibrillar collagen and regulates cell attachment to the extracellular matrix, remodeling of the extracellular matrix, cell migration, differentiation, survival and cell proliferation. Collagen binding triggers a signaling pathway that involves SRC and leads to the activation of MAP kinases. Regulates remodeling of the extracellular matrix by up-regulation of the matrix metalloproteinases MMP2, MMP7 and MMP9, and thereby facilitates cell migration and wound healing, but also tumor cell invasion. Promotes smooth muscle cell migration, and thereby contributes to arterial wound healing. Phosphorylates PTPN11 (By similarity). Required for normal blastocyst implantation during pregnancy, for normal mammary gland differentiation and normal lactation. Required for normal ear morphology and normal hearing.[UniProtKB/Swiss-Prot Function]