

Product datasheet for **MR222870L4V**

Ddr2 (NM_022563) Mouse Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Ddr2 (NM_022563) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Ddr2
Synonyms:	AW495251; Ntrkr3; tyro10
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_022563
ORF Size:	2562 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR222870).
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_022563.2 , NP_072075.2
RefSeq Size:	8306 bp
RefSeq ORF:	2565 bp
Locus ID:	18214
UniProt ID:	Q62371
Cytogenetics:	1 76.84 cM



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Gene Summary:

Tyrosine kinase that functions as cell surface receptor for fibrillar collagen and regulates cell differentiation, remodeling of the extracellular matrix, cell migration and cell proliferation. Required for normal bone development. Regulates osteoblast differentiation and chondrocyte maturation via a signaling pathway that involves MAP kinases and leads to the activation of the transcription factor RUNX2. Regulates remodeling of the extracellular matrix by up-regulation of the collagenases MMP1, MMP2 and MMP13, and thereby facilitates cell migration and tumor cell invasion. Promotes fibroblast migration and proliferation, and thereby contributes to cutaneous wound healing.[UniProtKB/Swiss-Prot Function]