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Product datasheet for MG224276

Ddr1 (NM_172962) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ddr1 (NM_172962) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ddr1
Synonyms:	6030432F18; AI323681; Cak; CD167a; Nep; PTK3A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

ORF Nucleotide Sequence:

>MG224276 representing NM_172962
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGGACAGGGACCCTCTCATCTCTACTGCTGCTGCTACTCTTGGTGACAATTGGAGATGCTGACATGA
AGGGACATTTTGACCCTGCCAAGTGCCGCTATGCCCTGGGCATGCAGGACCGCACCATTCCTGACAGCGA
TATCTCTGTGTCCAGCTCCTGGTCGGACTCTACCGCTGCCCGCCACAGCAGGCTGGAAAGCAGTGATGGA
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CTGGCGGGATGGACTCCTGTCATATACAGCCCCCGTGGGGCAGACCATGCAGTTATCTGAGGTGATGGTA
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CCTGCAGGGCGTCACTGGGGGCAACACCTACGCTGTGCCTGCACTGCCCCCAGGGGCGGTTGGGGATGGG
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CTGTATGAGCTGATGCTCCGGTGTTGGAGCCGGGAGCCCGAGCAGCGGCCGCCCTTCGCCCAGCTTCATC
GGTTCCTGGCGGATGATGCGCTCAACACGGTG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG224276 representing NM_172962
Red=Cloning site Green=Tags(s)

MGTGTLSSLLLLLLLVTIGDADMKGHFDPAKCRYALGMQDRTIPDSDISVSSSWSDSTAARHSRLESSDG
DGAWCPAGPVFPKEEEYLQVDLRRLHLVALVGTQGRHAGGLGKEFSRSYRLRYSRDGRRWMDWKDRWGQE
VISGNEDPGGVVLKDLGPPMVARLVRFYPRADRVMSVCLRVELYGCLWRDGLLSYTAPVGQTMQLSEVMV
HLNDSTYDGYTAGGLQYGGLGQLADGVVGLDDFRQSQELRVWPGYDYVGWSNQSFPTGYVEMEFEFDRLR
TFQTMQVHCNNMHTLGARLPGGVECRFKRGPAMAWEGEPVRHALGGSLGDPRARAISVPLGGHVGRFLQC
RFLFAGPWLLFSEISFISDVVNDSSDTFPPAPWWPPGPPPTNFSSLELEPRGQQPVAKAEGSPTAILIGC
LVAIILLLLLIIALMLWRLHWRRLLSKAERRVLEEELTVHLSVPGDTILINNRPGPREPPPYQEPRPRGT
PPHSAPCVPNGSACSGDYMEPEKPGAPLLPPPPQNSVPHYAEADIVTLQGVTGGNTYAVPALPPGAVGDG
PPRVDFPRSRLRFKEKLGEGQFGEVHLCEVEDPQDLVSSDFPISVHKGHPLLVAVKILRPDATKNARNDF
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YPMLLHVGAQIASGMRYLATLNFVHRDLATRNCLVGENFTIKIADFGMSRNLYAGDYYRVQGRAVLPIRW
MAWECILMGKFTTASDVWAFGVTLWEVLMLCRSQPFGQLTDEQVIENAGEFFRDQGRQVYLSRPPACPQT
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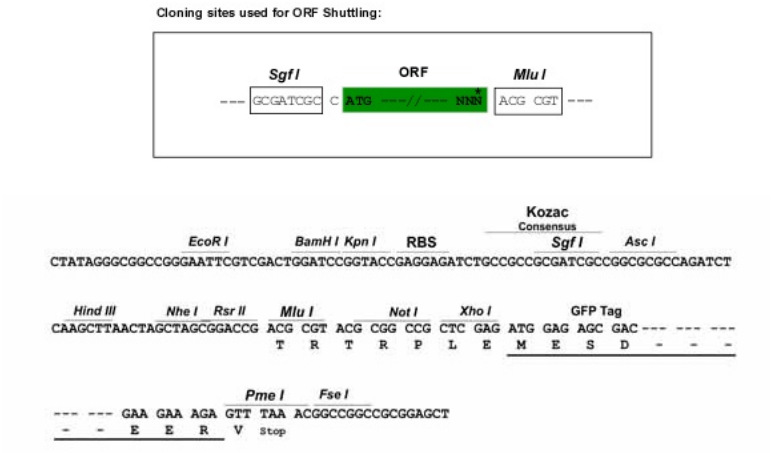
TRTRPLE - GFP Tag - V

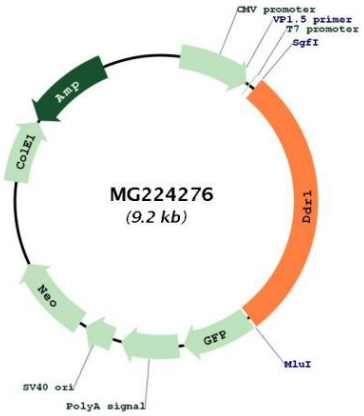
Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN:	NM_172962
ORF Size:	2622 bp
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.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
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
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]

Product images:



Circular map for MG224276