

## Product datasheet for **MR224276**

### **Ddr1 (NM\_172962) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Ddr1 (NM_172962) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ddr1
Synonyms:	6030432F18; AI323681; Cak; CD167a; Nep; PTK3A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide  
Sequence:

>MR224276 representing NM\_172962  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGGACAGGGACCCTCTCATCTCTACTGCTGCTACTCTTGGTGACAATTGGAGATGCTGACATGA  
 AGGGACATTTTGACCCTGCCAAGTGCCGCTATGCCCTGGGCATGCAGGACCGCACCATTCTGACAGCGA  
 TATCTCTGTGTCCAGCTCCTGGTCGACTCTACCCTGCCCGCCACAGCAGGCTGGAAAGCAGTGATGGA  
 GATGGGGCTTGGTGCCCTGCAGGGCCTGTGTTCCCAAAGAAGAGGAGTACTTGCAGGTGGACCTTCGTA  
 GGCTACACCTGGTGGCTCTGGTGGGCACCCAGGGCCGCATGCTGGGGTCTGGGCAAAGAGTTCTCCCG  
 AAGCTATCGGTTGCGTTACTCCGAGATGGCCGCGCTGGATGGACTGGAAGGACCGCTGGGACAGGAG  
 GTGATTTCCGGTAACGAGGATCCCGGGGAGTAGTCTGAAGGACCTGGGCCCCCATGGTGGCCCGGC  
 TGGTCCGCTTCTACCCAGGGCTGACCGGGTATGAGTGTCTGTCTTCGGGTGGAGCTCTATGGTCCT  
 CTGGCGGATGGACTCCTGTATACAGCCCCGCTGGGGCAGACCATGCAGTTATCTGAGGTGATGGTA  
 CATCTCAATGATTCCACTTACGATGGATATACTGCTGGAGGGCTGCAATATGGCGGTCTGGGCCAGCTGG  
 CAGATGGCGTGGTGGCCCTGGATGATTTACGGCAGAGCCAGGAGCTGCGGGTCTGGCCAGGCTATGACTA  
 TGTGGGATGGAGCAATCAGAGCTTCCCCACGGCTACGTGGAGATGGAGTTTGGTTGATCGGTTGAGG  
 ACCTTCCAGACCATGCAGGTCCACTGTAACAACATGCACACTCTGGGAGCCCGCTACCAGGCGGGGTGG  
 AATGCCGGTTTAAAAGGGTCCCAGCATGGCTGGGAAGGAGAGCCTGTCCGCCATGCTCTGGGAGGCAG  
 CCTTGGAGACCCAGAGCCCGGCCATCTCAGTGGCCCTGGTGGCCACGTGGGCCGCTTCTGCAGTGC  
 AGATTCCTCTTTCAGGTCTTGGTACTCTTCAGTGAGATCTTTTATCTCAGATGTGGTGAACGACT  
 CCTCTGACACCTTCCCACAGCCCTGGTGGCACCTGGCCCGCTCCCACCACTTCCAGCATTCAGGATGG  
 GCTGGAGCCCCGGGTCAACAGCCAGTGGCCAAGGCGGAGGGGAGCCCACTGCCATCCTCATTGGCTGC  
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 CATCCTCATCAACAACCGCCAGGACCCCGAGAGCCACCCCTTACCAGGAGCCCGGCCTCGGGGACT  
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 CGGGTCCCGCTTCTACCCACCTCCCAGAACAGCGTCCCCATTATGCCGAAGCTGACATTGTCAC  
 CCTGCAGGGCGTCACTGGGGCAACACCTACGCTGTGCCTGCACTGCCCCAGGGCGGTGGGGATGGG  
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 AGGTACACCTGTGTGAAGTAGAGGACCCGCAAGATCTGGTCAGTAGTGACTTCCCTATCAGTGTGACAA  
 GGGACACCCCTTGTGGTAGCAGTGAAGATCCTCCGGCCAGATGCCACAAAAATGCCAGGAATGATTTT  
 CTGAAGGAGGTAAGATCATGTACGGGTGAAGGACCCAAACATCATCCGGCTCCTGGGTGTGTGTGTC  
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 TACCCTATGCTGTTACACGTGGGGGCCAGATCGCCTCTGGCATGCGTTATCTGCCACGCTGAACCTTG  
 TGCATCGGGACCTGGCCACCCGAACTGCTTGGTTGGGAAAATTTACCATCAAATCGCCGACTTTGG  
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 TGCCGGCGAGTTCTCAGGGACAGGGCCGGCAGGTCTACTTGTCCAGGCCACCCGCTGCCACAGACC  
 CTGTATGAGCTGATGCTCCGGTGTGGAGCCGGGAGCCGAGCAGCGCCGCCCTTCGCCAGCTTCATC  
 GGTTCCTGGCGGATGATGCGCTCAACACGGTG

**ACGGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR224276 representing NM\_172962  
 Red=Cloning site Green=Tags(s)

MGTGTLSSLLLLLLLLVTIGDADMKGHFDPKCRYALGMQDRTIPDSDISVSSSWSDSTAARHSRLESSDG  
 DGAWCPAGPVFPKEEYLQVDLRRHLVALVGTQGRHAGGLGKEFSRSYRLRYSRDGRRWMDWKDRWGQE  
 VISGNEDPGGVVLKDLGPPMVARLVRFYPRADRVMSVCLRVELYGCLWRDGLLSYAPVQTMQLSEVMV  
 HLNSTYDGYTAGGLQYGGGLQDLADGVVGLDDFRQSQELRWPGYDYVVGWSNQSFPTGYVEMEFEDRLR  
 TFQTMQVHCNNMHTLGARLPGGVECRFKRGPAMAWEGEPVRHALGGSLGDPRARAI SVPLGGHVGRFLQC  
 RFLFAGPWLLFSEISFISDVVNDSSDTFPPAPWPPGPPPTNFSSELEPRGQQPVAKAEGSPTAILIGC  
 LVAIIIIIIIIALMLWRLHWRLLSKAERRVLEEELTVHLSVPGDITLNNRPGPREPPPYQEP RPRGT  
 PPHSAPCVNGSACSGDYMEPEKPGAPLLPPPQNSVPHYAEADIVTLQGVTTGGNTYAVPALPPGAVGDG  
 PPRVDFPRSRLRFKEKLGEGQFGEVHLCEVEDPQDLVSSDFPISVHKGHPLLVAVKILRPDATKNARND  
 LKEVKIMSRLKDPNIIRLLGVCVQDDPLCMITDYMENGDLNQFLSARQLENKATQGLSGDTESDQGPTIS  
 YPMLLVHGAQIASGMRYLATLNFVHRDLATRNCLVGENFTIKIADFGMSRNL YAGDYRVRQGRAVLPIRW  
 MAWECILMGKFTTASDVWAFGVTLWEVLMMLCRSQPFQGLTDEQVIENAGEFFRDQGRQVYLSRPPACPQT  
 LYELMLRCWSREPEQRPPFAQLHRFLADDALNTV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

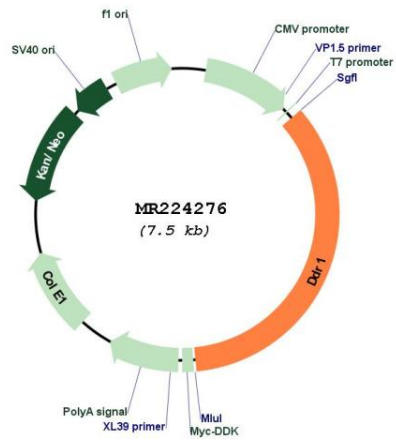
SgfI-MluI

Cloning Scheme:



<b>ACCN:</b>	NM_172962
<b>ORF Size:</b>	2622 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_172962.1</a> , <a href="#">NP_766550.1</a>
<b>RefSeq Size:</b>	3703 bp
<b>RefSeq ORF:</b>	2625 bp
<b>Locus ID:</b>	12305
<b>UniProt ID:</b>	<a href="#">Q03146</a>
<b>Cytogenetics:</b>	17 18.7 cM
<b>MW:</b>	97.7 kDa
<b>Gene Summary:</b>	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 MR224276