

Product datasheet for **MR231375**

Ddr1 (NM_001198833) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ddr1 (NM_001198833) 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:

>MR231375 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGGGACAGGGACCCTCTCATCTCTACTGCTGCTACTCTTGGTGACAATTGGAGATGCTGACATGA
 AGGGACATTTTGACCCTGCCAAGTGCCGCTATGCCCTGGGCATGCAGGACCGCACCATTCCCTGACAGCGA
 TATCTCTGTGTCCAGCTCCTGGTCGACTCTACCCTGCCCGCCACAGCAGGCTGGAAAGCAGTGATGGA
 GATGGGGCTTGGTGCCCTGCAGGGCCTGTGTTCCCAAAGAAGAGGAGTACTTGCAGGTGGACCTTCGTA
 GGCTACACCTGGTGGCTCTGGTGGGCACCCAGGGCCGCCATGCTGGGGTCTGGGCAAAGAGTTCTCCCG
 AAGCTATCGTTGCGTTACTCCCGAGATGGCCGCCCTGGATGGACTGGAAGGACCGCTGGGGACAGGAG
 GTGATTCGGGTAACGAGGATCCCGGGGAGTAGTCTGAAGGACCTGGGCCCCCATGGTGGCCCGGC
 TGGTCCGCTTCTACCCAGGGCTGACCGGGTATGAGTGTCTGTCTTCGGGTGGAGCTCTATGGCTGCCT
 CTGGCGGGATGGACTCCTGTATACAGCCCCGTGGGGCAGACCATGCAGTTATCTGAGGTGATGGTA
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 ACGCTGTCCCTGCACTGCCCCAGGGCGGTGGGGATGGGCCCCAGAGTGGATTTCCCTCGGTACCG
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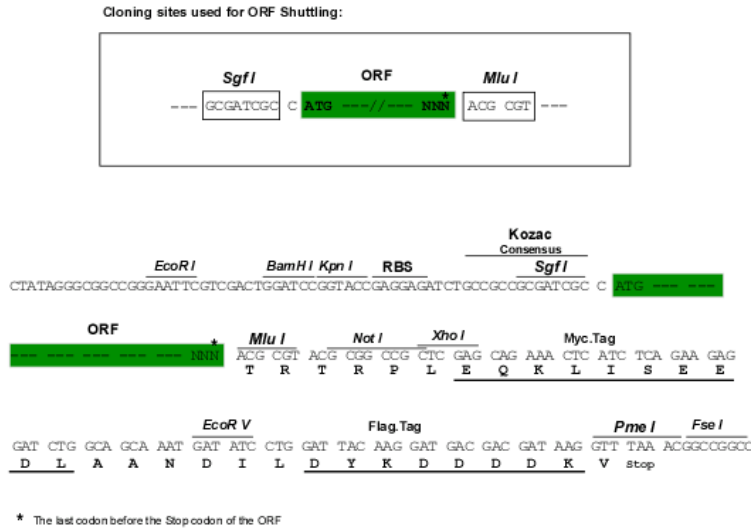
Protein Sequence: >MR231375 protein sequence
 Red=Cloning site Green=Tags(s)

MGTGTLSSLLLLLLVTIGDADMKGHFDPACRYALGMQDRTIPDSISVSSSWSDSTAARHSRLESSDG
 DGAWCPAGPVFPKEEYLQVDLRLHLVALVGTQGRHAGGLGKEFSRSYRLRYSRDGRRWMWDRWQGE
 VISGNEDPGGVVLKDLGPPMVARLVRFYPRADRVMSVCLRVELYGCLWRDGLLSYAPVQTMQLSEVMV
 HLNSTYDGYTAGGLQYGGGLQGLADGVVGLDDFRQSQELRVWPGYDYVGVWSNQSFPTGYVEMEFEDRLR
 TFQTMQVHCNNMHTLGARLPGGVECRFKRGPAMAWEGEPVRHALGGS LGDPRARAI SVPLGGHVGRFLQC
 RFLFAGPWLLFSEISFISDVVNDSSDTFPPAPWPPGPPPTNFSSELEPRGQPVAKAEGSPTAILIGC
 LVAIIIIIIIIALMLWRLHWRLLSKAERRVLEELTVHLSVPGDITILNNRPGPREPPPYQEPRPRGT
 PPHSAPCVNGSALLLSNPAYRLLLATYARPPRGPPTPAWAKPTNTQACSGDYMEPEKPGAPLLPPPP
 QNSVPHYAEADIVTLQGVGTGNTYAVPALPPGAVGDGPPRVDFPRSRLRFKEKLGEGQFGEVHLCEVEDP
 QDLVSSDFPISVHKGHPLLVAVKILRPDATKNARNDFLKEVKIMSRLKDPNIIRLLGVCVQDDPLCMITD
 YMENGLNQFLSARQLENKATQGLSGDTESDQGPTISYPMLLHVGAQIASGMRYLATLNFVHRDLATRNC
 LVGENFTIKIADFGMSRNLAYAGDYRVQGRAVLP IRWMAWECILMGKFTTASDVWAFGVTLWEVLMLCRS
 QPFGQLTDEQVIENAGEFFRDQGRQVYLSRPPACPQTLYELMLRCWSREPEQRPPFAQLHRFLADDAANT
 V

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

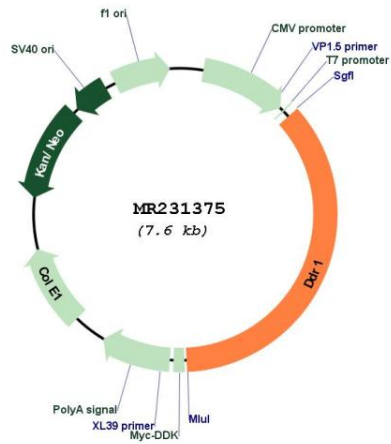


ACCN: NM_001198833

ORF Size: 2733 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:	<ol style="list-style-type: none"> 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_001198833.1 , NP_001185762.1
RefSeq Size:	3758 bp
RefSeq ORF:	2736 bp
Locus ID:	12305
UniProt ID:	Q03146
Cytogenetics:	17 18.7 cM
MW:	101.2 kDa
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 MR231375