

Product datasheet for **MR210041**

Ddr1 (BC065998) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ddr1 (BC065998) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ddr1
Synonyms:	6030432F18, CD167a, PTK3A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR210041 representing BC065998
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGGACAGGGACCCTCTCATCTCTACTGCTGCTACTCTTGGTGACAATTGGAGATGCTGACATGA
 AGGGACATTTTGACCCTGCCAAGTGCCGCTATGCCCTGGGCATGCAGGACCGCACCATTCTGACAGCGA
 TATCTCTGTGTCCAGCTCCTGGTCGACTCTACCCTGCCCGCCACAGCAGGCTGGAAAGCAGTGATGGA
 GATGGGGCTTGGTGCCCTGCAGGGCCTGTGTTCCCAAAGAAGAGGAGTACTTGCAGGTGGACCTTCGTA
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 AAGCTATCGTTGCGTTACTCCGAGATGGCCGCGCTGGATGGACTGGAAGGACCGCTGGGACAGGAG
 GTGATTCGGGTAACGAGGATCCCGGGGAGTAGTGTGAAGGACCTGGGCCCCCATGGTGGCCCGGC
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 CAGATGGCGTGGTGGGCCTGGATGATTTCAAGCAGAGCCAGGAGCTGCGGGCTGGCCAGGCTATGACTA
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 GCCAAGTGCCACCTCCAGCTGGCCCTGTGGTTGGGATCCTGCCTGACTTCTCCAGCTTCTTCTTGT
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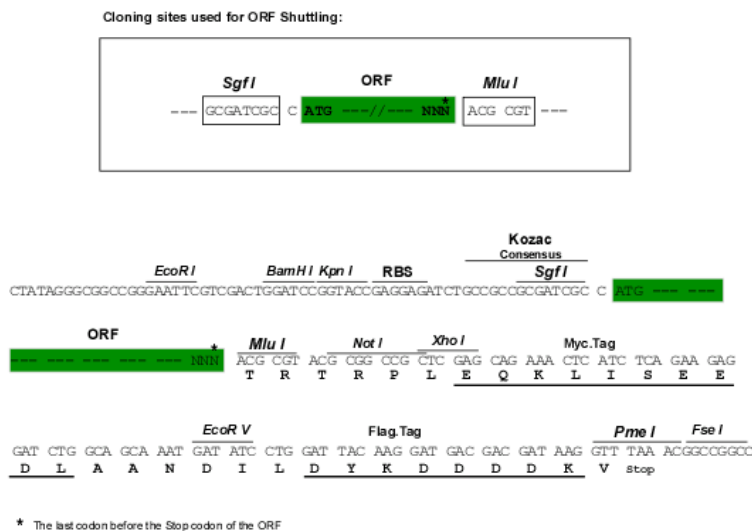
Protein Sequence: >MR210041 representing BC065998
Red=Cloning site Green=Tags(s)

MGTGTLSSLLLLLLLLVTIGDADMKGHFDPACRYALGMQDRTIPDSDISVSSSWSDSTAARHSRLESSDG
 DGAWCPAGPVFPKEEYLQVDLRLHLVALVGTQGRHAGGLGKEFSRSYRLRYSRDGRRWMDWDRWGQE
 VISGNEDPGGVVLKDLGPPMVARLVRFYPRADRVMSVCLRVELYGCLWRDGLLSYAPVGQTMQLSEVMV
 HLNDSYDGYTAGGLQYGGGLQADGVVGLDDFRQSQELRGWPGYDYVGVWSNQSFPTGYVEMEFEDRLR
 TFQTMQVHCNNMHTLGARLPGGVECRFKRGPAMAWEGEPVRHALGGS LGDPRARAI SVPLGGHVGRFLQC
 RFLFAGPWLLFSEISFISDVVNDSSDTFPPAPWPPGPPPTNFSSLELEPRGQPVAKAEGSPTAILIGC
 LVAIIIIIIIIALMLWRLHWRLLSKAERRVLEELTVHLSVPGDTILINNRPGPREPPPYQEP RPRGT
 PPHSAPCVNGSACSGDYMEPEKPGAPLLPPPQNSVPHYAEADIVTLQGV TGGNTYAVPALPPGAVGDG
 PPRVDFPRSRLRFKEKLGEGQFGEVHLCEVEDPAALSQWEP SRGSWTRKPEKPMAPHPTVSI LAHSQEAV
 SLRVGWACPRSRYTHSLPFLPSICQVPPSQLALWLG SCLTSSSFLLVTHWTPPAEN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: BC065998

ORF Size: 2058 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: [BC065998](#), [AAH65998](#)

RefSeq Size: 2582 bp

RefSeq ORF: 2060 bp

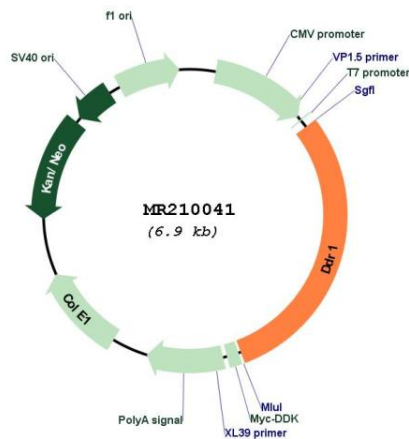
Locus ID: 12305

Cytogenetics: 17 18.7 cM

MW: 94.6 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 MR210041