

Product datasheet for **MC222504**

Ddr1 (NM_007584) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ddr1 (NM_007584) Mouse Untagged Clone
Tag:	Tag Free
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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Fully Sequenced ORF:

>MC222504 representing NM_007584
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGGACAGGGACCCTCTCATCTCTACTGCTGCTACTCTTGGTGACAATTGGAGATGCTGACATGA
 AGGGACATTTTGACCCTGCCAAGTGCCGCTATGCCCTGGGCATGCAGGACCGCACCATTCTGACAGCGA
 TATCTCTGTGTCCAGCTCCTGGTCGACTCTACCCTGCCCGCCACAGCAGGCTGGAAAGCAGTGATGGA
 GATGGGGCTTGGTGCCCTGCAGGGCCTGTGTTCCCAAAGAAGAGGAGTACTTGCAGGTGGACCTTCGTA
 GGCTACACCTGGTGGCTCTGGTGGGCACCCAGGGCCGCATGCTGGGGTCTGGGCAAAGAGTTCTCCCG
 AAGCTATCGTTGCGTTACTCCCGAGATGGCCGCGCTGGATGGACTGGAAGGACCGCTGGGGACAGGAG
 GTGATTTCCGGTAACGAGGATCCCGGGGAGTAGTCTGAAGGACCTGGGCCCCCATGGTGGCCCGGC
 TGGTCCGCTTACCCAGGGCTGACCGGGTCATGAGTGTCTGTCTTCCGGTGGAGCTCTATGGCTGCCT
 CTGGCGGGATGGACTCCTGTATACAGCCCCGCTGGGGCAGACCATGCAGTTATCTGAGGTGATGGTA
 CATCTCAATGATTCCACTTACGATGGATATACTGCTGGAGGGCTGCAATATGGCGGTCTGGGCCAGCTGG
 CAGATGGCGTGGTGGCCCTGGATGATTTAGGCAGAGCCAGGAGCTGCGGGTCTGGCCAGGCTATGACTA
 TGTGGGATGGAGCAATCAGAGCTTCCCCACGGCTACGTGGAGATGGAGTTTGGTTGATCGGTTGAGG
 ACCTTCCAGACCATGCAGGTCCACTGTAACAACATGCACACTCTGGGAGCCCGCTACCAGGCGGGGTGG
 AATGCCGGTTTAAAAGGGGTCCCGCCATGGCCTGGGAAGGAGAGCCTGTCCGCCATGCTCTGGGAGGCAG
 CCTTGGAGACCCAGAGCCCGGGCCATCTCAGTCCCCGGTGGCCACGTGGGCCGCTTCTGCAGTGC
 AGATTCCTCTTTGAGGTCTTGGTACTCTTCACTGAGATCTCTTTCATCTCAGATGTGGTGAACGACT
 CCTCTGACACCTTCCCACAGCCCTGGTGGCCACCTGGCCCGCTCCCAACTTCCAGCATTGGA
 GCTGGAGCCCCGGGGTCAACAGCCAGTGGCCAAGGCGGAGGGGAGCCCAACTGCCATCCTATTGGCTGC
 CTGGTGGCCATCATCCTGCTGCTTCTCATCATCGCGCTGATGCTCTGGAGGCTGCACTGGCGCCGGC
 TGCTCAGCAAGGCTGAGCGCCGCTGTTGGAGGAGGAGCTGACGGTTACCTTTCTGTCCCTGGGGACAC
 CATCCTCATCAACAACCGCCAGGACCCCGAGAGCCACCCCTTACCAGGAGCCCGGCCTCGGGGACT
 CCACCCATTCTGCACCTGCGTCCCCAACGGCTCTGCGTTGCTGCTCTCAATCCGGCCTACCGCTCC
 TTCTGGCCACTTACGCCCTCCCCCTCGAGGCCCGGGCCCCCACCCGCTGGGCCAAACCCACCAA
 CACCCAGGCTGCAGTGGGACTATATGGAGCCGAGAAGCCGGTGCCCGCTTACCCCCACTCCC
 CAGAACAGCGTCCCCATTATGCCGAAGCTGACATTGTACCCTGCAGGGCGTCACTGGGGCAACACT
 ACGCTGTCCCTGCACTGCCCCAGGGCGGTGGGGATGGGCCCCAGAGTGGATTTCCCTCGGTACCG
 GCTCCGCTTCAAGGAGAAGCTTGGCGAGGGCAATTTGGGGAGGTACACCTGTGTGAAGTAGAGGCCCG
 CAAGATCTGGTCAGTAGTGACTTCCCTATCAGTGTGCACAAGGGACACCCCTTGGTGGTAGCAGTGAAGA
 TCCTCCGGCCAGATGCCACAAAATGCCAGGAATGATTTCTGAAGGAGGTAAGATCATGTCACGGCT
 GAAGGACCCAAACATCATCCGGCTCCTGGGTGTGTGTGTCAGGATGACCCCTCTGCATGATCACAGAC
 TACATGGAGAACGGCGATCTGAACCAAGTTCCTCAGTCCCCGCGAGCTGGAGAACAAGGCCACTCAGGGC
 TCTCTGGGGACACAGAGTCTGACCAGGGGCCACAATCAGTACCCTATGCTGTTACACGTGGGGGCCCA
 GATCGCCTCTGGCATGCGTTATCTCGCCACGCTGAACCTTGTGCATCGGGACCTGGCCACCCGAACTGC
 TTGGTTGGGGAAAATTTACCATCAAAAATCGCCGACTTTGGCATGAGCCGGAATCTCTACGCTGGGGATT
 ATTACCGTGTCCAGGGCCGGGCGGTGCTGCCATCAGGTGGATGGCTTGGGAGTGCACTTCTCATGGGAA
 GTTCACAACAGCCAGTGACGTTTGGCCTTCGGAGTGACCCTGTGGGAGGTGCTGATGCTCTGCAGGTCC
 CAGCCCTTTGGCAGCTTACAGATGAGCAGGTTATCGAGAATGCCGGCGAGTTCTTACGGGACCAGGGCC
 GGCAGGTCTACTTGTCCAGGCCACCCGCTGCCACAGACCCTGTATGAGCTGATGCTCCGGTGTGGAG
 CCGGGAGCCCGAGCAGCGCCGCTTCCGCCAGCTTTCATCGGTTCTGGCGGATGATGCGCTCAACACG
 GTG**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Chromatograms:

https://cdn.origene.com/chromatograms/ja1989_e01.zip

Restriction Sites:	Sgfl-Mlul
ACCN:	NM_007584
Insert Size:	2736 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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_007584.2 , NP_031610.1
RefSeq Size:	3814 bp
RefSeq ORF:	2736 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]

Transcript Variant: This variant (1) represents the longest transcript and encodes the longer isoform (1). Variants 1, 3, and 4 encode the same protein (isoform 1).