

Product datasheet for **MC222304**

Ddr1 (NM_172962) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ddr1 (NM_172962) 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: >MC222304 representing NM_172962
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGGACAGGGACCCTCTCATCTCTACTGCTGCTACTCTTGGTGACAATTGGAGATGCTGACATGA
 AGGGACATTTTGACCCTGCCAAGTGCCGCTATGCCCTGGGCATGCAGGACCGCACCATTCTGACAGCGA
 TATCTCTGTGTCCAGCTCCTGGTCGACTCTACCCTGCCCGCCACAGCAGGCTGGAAAGCAGTGATGGA
 GATGGGGCTTGGTGCCCTGCAGGGCCTGTGTTCCCAAAGAAGAGGAGTACTTGCAGGTGGACCTTCGTA
 GGCTACACCTGGTGGCTCTGGTGGGCACCCAGGGCCGCATGCTGGGGTCTGGGCAAAGAGTTCTCCCG
 AAGCTATCGTTGCGTTACTCCCGAGATGGCCGCGCTGGATGGACTGGAAGGACCGCTGGGACAGGAG
 GTGATTCGGGTAACGAGGATCCCGGGGAGTAGTCTGAAGGACCTGGGCCCCCATGGTGGCCCGGC
 TGGTCCGCTTCTACCCAGGGCTGACCGGGTATGAGTGTCTGTCTTCGGGTGGAGCTCTATGGTCCT
 CTGGCGGATGGACTCCTGTATACAGCCCCGTGGGGCAGACCATGCAGTTATCTGAGGTGATGGTA
 CATCTCAATGATTCCACTTACGATGGATATACTGCTGGAGGGCTGCAATATGGCGGTCTGGGCCAGCTGG
 CAGATGGCGTGGTGGCCCTGGATGATTTAGGCAGAGCCAGGAGCTGCGGGTCTGGCCAGGCTATGACTA
 TGTGGGATGGAGCAATCAGAGCTTCCCCACGGCTACGTGGAGATGGAGTTTGGTTGATCGGTTGAGG
 ACCTTCCAGACCATGCAGGTCCACTGTAACAACATGCACACTCTGGGAGCCCGCTACCAGGCGGGGTGG
 AATGCCGGTTTAAAAGGGTCCCAGCATGGCCTGGGAAGGAGAGCCTGTCCGCCATGCTCTGGGAGGCAG
 CCTTGGAGACCCAGAGCCCGGGCCATCTCAGTCCCCGGTGGCCACGTGGGCCGCTTCTGCAGTGC
 AGATTCCTCTTTGAGGTCTTGGTACTCTTCACTGAGATCTCTTTCATCTCAGATGTGGTGAACGACT
 CCTCTGCACCTTCCCACAGCCCTGGTGGCCACCTGGCCCGCTCCCACCACTTCCAGCAGTGGTA
 GCTGGAGCCCCGGGTCAACAGCCAGTGGCCAAGGCGGAGGGGAGCCCACTGCCATCCTATTGGCTGC
 CTGGTGGCCATCATCCTGCTGCTTCTCATCATCGCGCTGATGCTCTGGAGGCTGCACTGGCGCCGGC
 TGCTCAGCAAGGCTGAGCGCCGCTGTTGGAGGAGGAGCTGACGGTTACCTTTCTGTCCCTGGGGACAC
 CATCCTCATCAACAACCGCCAGGACCCCGAGAGCCACCCCTTACCAGGAGCCCGGCCTCGGGGACT
 CCACCCATTCTGCACCTGCGTCCCCAACGGCTCTGCCTGCAGTGGGACTATATGGAGCCGAGAAGC
 CGGGTGCCCGCTTCTACCCACCTCCCAGAACAGCGTCCCCATTATGCCGAAGCTGACATTGTCAC
 CCTGCAGGGCGTCACTGGGGCAACACCTACGCTGTGCCTGCACTGCCCCAGGGCGGTGGGGATGGG
 CCCCCAGAGTGGATTTCCCTCGGTACGGCTCCGCTTCAAGGAGAAGCTTGGCGAGGGCAATTTGGGG
 AGGTACACCTGTGTGAAGTAGAGGACCCGCAAGATCTGGTCAGTAGTGACTTCCCTATCAGTGTGACAA
 GGGACACCCCTTGTGGTAGCAGTGAAGATCCTCCGGCCAGATGCCACAAAAATGCCAGGAATGATTTT
 CTGAAGGAGGTAAAGATCATGTACGGGTGAAGGACCCAAACATCATCCGGCTCCTGGGTGTGTGTGC
 AGGATGACCCCTCTGCATGATCACAGACTACATGGAGAACGGCGATCTGAACCAGTTTCTCAGTCCCCG
 CCAGCTGGAGAACAAGGCCACTCAGGGGCTCTCTGGGGACACAGAGTCTGACCAGGGGCCACAATCAGC
 TACCCTATGCTGTTACACGTGGGGGCCAGATCGCCTCTGGCATGCGTTATCTGCCACGCTGAACCTTG
 TGCATCGGGACCTGGCCACCCGAACTGCTTGGTTGGGAAAATTTACCATCAAATCGCCGACTTTGG
 CATGAGCCGGAATCTCTACGCTGGGATTATTACCGTGTCCAGGGCCGGCGGTGCTGCCATCAGGTGG
 ATGGCTTGGGAGTGCATTCTCATGGGGAAGTTCAACAACAGCCAGTGACGTTTGGGCTTCCGAGTGACCC
 TGTGGGAGGTGCTGATGCTCTGCAGTCCAGCCCTTGGGCAGCTTACAGATGAGCAGGTTATCGAGAA
 TGCCGGCGAGTTCTCAGGGACAGGGCCGGCAGGTCTACTTGTCCAGGCCACCCGCTGCCACAGACC
 CTGTATGAGCTGATGCTCCGGTGTGGAGCCGGGAGCCGAGCAGCGGCCCCCTTCGCCAGCTTCATC
 GGTTCCTGGCGGATGATGCGCTCAACACGGT**GTA**A

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_172962
Insert Size: 2625 bp

OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_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:	<p>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]</p> <p>Transcript Variant: This variant (2) lacks an in-frame exon, compared to variant 1, and encodes a shorter isoform (2) than isoform 1.</p>