

Product datasheet for **MC229163**

Ddr1 (NM_001198831) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ddr1 (NM_001198831) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ddr1
Synonyms:	6030432F18; AI323681; Cak; CD167a; Nep; PTK3A
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC229163 representing NM_001198831
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGGACAGGGACCCTCTCATCTCTACTGCTGCTACTCTTGGTGACAATTGGAGATGCTGACATGA
 AGGGACATTTTGACCCTGCCAAGTGCCGCTATGCCCTGGGCATGCAGGACCGCACCATTCTGACAGCGA
 TATCTCTGTGTCCAGCTCCTGGTCGACTCTACCCTGCCCGCCACAGCAGGCTGGAAAGCAGTGATGGA
 GATGGGGCTTGGTGCCCTGCAGGGCCTGTGTTCCCAAAGAAGAGGAGTACTTGCAGGTGGACCTTCGTA
 GGCTACACCTGGTGGCTCTGGTGGGCACCCAGGGCCGCCATGCTGGGGTCTGGGCAAAGAGTTCTCCCG
 AAGCTATCGTTGCGTTACTCCCGAGATGGCCGCCCTGGATGGACTGGAAGGACCGCTGGGGACAGGAG
 GTGATTCGGGTAACGAGGATCCCGGGGAGTAGTCTGAAGGACCTGGGCCCCCATGGTGGCCCGGC
 TGGTCCGCTTCTACCCAGGGCTGACCGGGTATGAGTGTCTGTCTTCGGGTGGAGCTCTATGGCTGCCT
 CTGGCGGGATGGACTCCTGTATACAGCCCCGTGGGGCAGACCATGCAGTTATCTGAGGTGATGGTA
 CATCTCAATGATTCCACTTACGATGGATATACTGCTGGAGGGCTGCAATATGGCGGTCTGGGCCAGCTGG
 CAGATGGCGTGGTGGCCCTGGATGATTTCAAGCAGAGCCAGGAGCTGCGGGTCTGGCCAGGCTATGACTA
 TGTGGGATGGAGCAATCAGAGCTTCCCCACGGCTACGTGGAGATGGAGTTTGAAGTTGATCGGTTGAGG
 ACCTTCCAGACCATGCAGGTCCACTGTAACAACATGCACACTCTGGGAGCCCGCTACCAGGCGGGGTGG
 AATGCCGGTTTAAAAGGGTCCCAGCATGGCCTGGGAAGGAGAGCCTGTCCGCCATGCTCTGGGAGGCAG
 CCTTGGAGACCCAGAGCCCGGCCATCTCAGTCCCCGGTGGCCACGTGGGCCGCTTCTGCAGTGC
 AGATTCCTCTTTCAGGTCTTGGTACTCTTCAGTGAGATCTCTTTCATCTCAGATGTGGTGAACGACT
 CCTCTGACACCTTCCCACAGCCCTGGTGGCACCTGGCCCGCTCCCACCACTTCAGCAGCTTGGAG
 GCTGGAGCCCCGGGTCAACAGCCAGTGGCCAAGGCGGAGGGGAGCCCACTGCCATCCTCATTGGCTGC
 CTGGTGGCCATCATCCTGCTGCTTCTCATCATCGCGCTGATGCTCTGGAGGCTGCACTGGCGCCGGC
 TGCTCAGCAAGGCTGAGCGCCGCTGTTGGAGGAGGAGCTGACGGTTACCTTTCTGTCCCTGGGGACAC
 CATCCTCATCAACAACCGCCAGGACCCCGAGAGCCACCCCTTACCAGGAGCCCGGCCTCGGGGACT
 CCACCCATTCTGCACCTGCGTCCCCAACGGCTCTGCGTTGCTGCTCTCAATCCGGCCTACCGCTCC
 TTCTGGCCACTTACGCCCTCCCCCTCGAGGCCCGGGCCCCCACACCCGCTGGGCCAAACCCACCAA
 CACCCAGGCTGCAGTGGGACTATATGGAGCCGAGAAGCCGGTGCCCGCTTCTACCCACCTCCC
 CAGAACAGCGTCCCCATTATGCCGAAGCTGACATTGTACCCTGCAGGGCGTCACTGGGGCAACACT
 ACGCTGTCCCTGCACTGCCCCAGGGCGGTGGGGATGGGCCCCAGAGTGGATTTCCCTCGGTACAG
 GCTCCGCTTCAAGGAGAAGCTTGGCGAGGGCAATTTGGGGAGGTACACCTGTGTGAAGTAGAGGCCCG
 CAAGATCTGGTCAGTAGTGACTTCCCTATCAGTGTGCACAAGGGACACCCCTTGCTGGTAGCAGTGAAGA
 TCCTCCGGCCAGATGCCACAAAATGCCAGGAATGATTTCTGAAGGAGGTAAGATCATGTCACGGCT
 GAAGGACCCAAACATCATCCGGCTCCTGGGTGTGTGTGTGCAGGATGACCCCTCTGCATGATCACAGAC
 TACATGGAGAACGGCATCTGAACCAAGTTCCTCAGTCCCCGCCAGCTGGAGAACAAGGCCACTCAGGGGC
 TCTCTGGGGACACAGAGTCTGACCAGGGGCCACAATCAGTACCCTATGCTGTTACACGTGGGGGCCCA
 GATCGCTCTGGCATGCGTTATCTCGCCACGCTGAACCTTGTGCATCGGGACCTGGCCACCCGAACTGC
 TTGGTTGGGGAATTTACCATCAAAATCGCCGACTTTGGCATGAGCCGGAATCTACGCTGGGGATT
 ATTACCGTGTCCAGGGCCGGGCGGTGCTGCCATCAGGTGGATGGCTTGGGAGTGCACTTCTCATGGGAA
 GTTCACAACAGCCAGTGACGTTTGGCCTTCGGAGTGACCCTGTGGGAGGTGCTGATGCTCTGCAGGTCC
 CAGCCCTTGGGAGCTTACAGATGAGCAGGTTATCGAGAATGCCGGCAGTTCTTACGGGACCAGGGCC
 GGCAGGTCTACTTGTCCAGGCCACCCGCTGCCACAGACCTGTATGAGCTGATGCTCCGGTGTGGAG
 CCGGGAGCCCGAGCAGCGCCGCTTCGCCAGCTTTCATCGGTTCTGGCGGATGATGCGCTCAACACG
 GTG**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN:	NM_001198831
Insert Size:	2736 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).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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:	<u>NM_001198831.1</u> , <u>NP_001185760.1</u>
RefSeq Size:	3639 bp
RefSeq ORF:	2736 bp
Locus ID:	12305
UniProt ID:	<u>Q03146</u>
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 (3) differs in the 5' UTR, compared to variant 1. Variants 1, 3, and 4 encode the same protein (isoform 1).</p>