

## Product datasheet for **MC229164**

### **Ddr1 (NM\_001198833) Mouse Untagged Clone**

#### **Product data:**

|                    |                                               |
|--------------------|-----------------------------------------------|
| Product Type:      | Expression Plasmids                           |
| Product Name:      | Ddr1 (NM_001198833) 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:**

>MC229164 representing NM\_001198833  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGGACAGGGACCCTCTCATCTCTACTGCTGCTACTCTTGGTGACAATTGGAGATGCTGACATGA  
 AGGGACATTTTGACCCTGCCAAGTGCCGCTATGCCCTGGGCATGCAGGACCGCACCATTCTGACAGCGA  
 TATCTCTGTGTCCAGCTCCTGGTCGACTCTACCCTGCCCGCCACAGCAGGCTGGAAAGCAGTGATGGA  
 GATGGGGCTTGGTGCCCTGCAGGGCCTGTGTTCCCAAAGAAGAGGAGTACTTGCAGGTGGACCTTCGTA  
 GGCTACACCTGGTGGCTCTGGTGGGCACCCAGGGCCGCATGCTGGGGTCTGGGCAAAGAGTTCTCCCG  
 AAGCTATCGTTGCGTTACTCCGAGATGGCCGCGCTGGATGGACTGGAAGGACCGCTGGGGACAGGAG  
 GTGATTCGGGTAACGAGGATCCCGGGGAGTAGTCTGAAGGACCTGGGCCCCCATGGTGGCCCGGC  
 TGGTCCGCTTCTACCCAGGGCTGACCGGGTATGAGTGTCTGTCTTCGGGTGGAGCTCTATGGCTGCCT  
 CTGGCGGGATGGACTCCTGTATACAGCCCCGCTGGGGCAGACCATGCAGTTATCTGAGGTGATGGTA  
 CATCTCAATGATTCCACTTACGATGGATATACTGCTGGAGGGCTGCAATATGGCGGTCTGGGCCAGCTGG  
 CAGATGGCGTGGTGGCCCTGGATGATTTAGGCAGAGCCAGGAGCTGCGGGTCTGGCCAGGCTATGACTA  
 TGTGGGATGGAGCAATCAGAGCTTCCCCACGGCTACGTGGAGATGGAGTTTGGTTGATCGGTTGAGG  
 ACCTTCCAGACCATGCAGGTCCACTGTAACAACATGCACACTCTGGGAGCCCCCTACCAGGCGGGGTGG  
 AATGCCGGTTTAAAAGGGTCCCAGCATGGCCTGGGAAGGAGAGCCTGTCCGCCATGCTCTGGGAGGCAG  
 CCTTGGAGACCCAGAGCCCGGCCATCTCAGTCCCCGGTGGCCACGTGGGCCGCTTCTGCAGTGC  
 AGATTCCTCTTTGAGGTCCTTGGTACTCTTCAGTGAGATCTTTTATCTCAGATGTGGTGAACGACT  
 CCTCTGACACCTTCCCACAGCCCTGGTGGCCACCTGGCCCGCTCCCACCACTTCCAGCATCTGGTA  
 GCTGGAGCCCCGGGTCAACAGCCAGTGGCCAAGGCGGAGGGGAGCCCACTGCCATCCTCATTGGCTGC  
 CTGGTGGCCATCATCCTGCTGCTTCTCATCATCGCGCTGATGCTCTGGAGGCTGCACTGGCGCCGGC  
 TGCTCAGCAAGGCTGAGCGCCGCTGTTGGAGGAGGAGCTGACGGTTACCTTTCTGTCCCTGGGACAC  
 CATCCTCATCAACAACCGCCAGGACCCCGAGAGCCACCCCTTACCAGGAGCCCCGGCCTCGGGGACT  
 CCACCCATTCTGCACCTGCGTCCCCAACGGCTCTGCGTTGCTGCTCTCAATCCGGCCTACCGCTCC  
 TTCTGGCCACTTACGCCCTCCCCCTCGAGGCCCGGGCCCCCACACCCGCTGGGCCAAACCCACCAA  
 CACCCAGGCTGCAGTGGGACTATATGGAGCCGAGAAGCCGGTGCCCGCTTCTACCCACCTCCC  
 CAGAACAGCGTCCCCATTATGCCGAAGCTGACATTGTACCCTGCAGGGCGTCACTGGGGCAACACT  
 ACGCTGTCCCTGCACTGCCCCAGGGCGGTGGGGATGGGCCCCAGAGTGGATTTCCCTCGGTACG  
 GCTCCGCTTCAAGGAGAAGCTTGGCGAGGGCAATTTGGGGAGGTACACCTGTGTGAAGTAGAGGCCCG  
 CAAGATCTGGTCAGTAGTGACTTCCCTATCAGTGTGCACAAGGGACACCCCTTGCTGGTAGCAGTGAAGA  
 TCCTCCGGCCAGATGCCCAAAAATGCCAGGAATGATTTCTGAAGGAGGTAAGATCATGTCACGGCT  
 GAAGGACCCAAACATCATCCGGCTCCTGGGTGTGTGTGTGCAGGATGACCCCTCTGCATGATCACAGAC  
 TACATGGAGAACGGCATCTGAACCAAGTTCCTCAGTCCCCGCCAGCTGGAGAACAAGGCCACTCAGGGGC  
 TCTCTGGGGACACAGAGTCTGACCAGGGGCCACAATCAGTACCCTATGCTGTTACACGTGGGGGCCCA  
 GATCGCTCTGGCATGCGTTATCTCGCCACGCTGAACCTTGTGCATCGGGACCTGGCCACCCGGAACCTG  
 TTGGTTGGGAAAATTTACCATCAAAATCGCCGACTTTGGCATGAGCCGGAATCTCAGCTGGGGATT  
 ATTACCGTGTCCAGGGCCGGGCGGTGCTGCCATCAGGTGGATGGCTTGGGAGTGCACTTCTCATGGGAA  
 GTTCACAACAGCCAGTGACGTTTGGCCTTCGGAGTGACCCTGTGGGAGGTGCTGATGCTCTGCAGGTCC  
 CAGCCCTTGGGAGCTTACAGATGAGCAGGTTATCGAGAATGCCGGGAGTTCTTACGGGACCAGGGCC  
 GGCAGGTCTACTTGTCCAGGCCACCCGCTGCCACAGACCTGTATGAGCTGATGCTCCGGTGTGGAG  
 CCGGGAGCCCGAGCAGCGCCGCTTCGCCAGCTTTCATCGGTTCTGGCGGATGATGCGCTCAACACG  
 GTG**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:**

SgfI-MluI

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ACCN:</b>                  | NM_001198833                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Insert Size:</b>           | 2736 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>OTI Disclaimer:</b>        | 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).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>OTI Annotation:</b>        | Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Components:</b>            | 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).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>RefSeq:</b>                | <u><a href="#">NM_001198833.1</a></u> , <u><a href="#">NP_001185762.1</a></u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>RefSeq Size:</b>           | 3758 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>RefSeq ORF:</b>            | 2736 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Locus ID:</b>              | 12305                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>UniProt ID:</b>            | <u><a href="#">Q03146</a></u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Cytogenetics:</b>          | 17 18.7 cM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Gene Summary:</b>          | <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 (4) differs in the 5' UTR, compared to variant 1. Variants 1, 3, and 4 encode the same protein (isoform 1).</p> |