

## Product datasheet for **MC222147**

### **Ddr2 (NM\_022563) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Ddr2 (NM_022563) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ddr2
Synonyms:	AW495251; Ntrkr3; tyro10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC222147 representing NM\_022563  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGATCCCGATTCCAGAATGCCCTGGTCTGCTCCTGCTCTTGCTCATCTGGGTTCTGCAAAGCTC  
 AGGTTAATCCAGCCATATGCCGCTATCCTCTGGGCATGTCAGGAGGCCACATTCCAGATGAGGACATCAC  
 AGCCTCAAGTCAGTGGTCAAGTCCACGGCTGCCAAATATGGGAGGCTGGACTCTGAAGAAGGAGATGGA  
 GCCTGGTGTCTGAGATTCCAGTCAACCCGATGACCTGAAGGAATTTCTGCAGATTGACTTGCGAACCC  
 TACACTTTATCACTCTTGTGGGGACCCAGGGCGCCATGCAGGGGTCATGGCATTGAATTTGCACCCAT  
 GTACAAGTCACTACAGTCGGGATGGCAGTCTGCTGGTCTCCTGGCGTAACCGCATGGGAAGCAGGTG  
 CTTGATGGAAACAGTAACCCCTATGATGTATTCTGAAGGACTGGAGCCACCCATCGTCGCCAGATTTG  
 TTCGCCTATCCAGTCACTGACCCTCCATGAACGTGTGCATGAGGGTTGAGCTTTATGGTTGTGCTG  
 GCTAGATGGCTTGGTATCCTACAATGCTCCAGCTGGACAGCAGTTTGTACTCCCTGGAGGCTCCATCATT  
 TATCTGAATGATTCTGTCTATGATGGAGCTGTTGGGTACAGCATGACTGAAGGGCTAGGCCAGTTGACTG  
 ATGGAGTATCCGGCTGGATGATTTTACCAGACCCATGAATACCACGTGTGGCCTGGCTATGACTACGT  
 GGGATGGCGGAACGAAAGTGCTACCAACGGTTTCATTGAGATCATGTTTGAATTTGACCGAATCAGGAAT  
 TTTACTACCATGAAGTCCACTGCAACAACATGTTTGCTAAAGGTGTGAAGATTTTTAAGGAGTCCAGT  
 GCTACTTTCGCTCGGAAGCCAGCGAGTGGGAACCCACTGCTGTCTACTTCCCCTGGTCTGGACGATGT  
 GAACCCAGTGCCCGTTTGTACGGTGGCCCTCCACCACCGAATGGCCAGTCCATCAAGTGCCAAATAC  
 CATTTTGGCGACAGTGGATGATGTTTACGGAGATCACTTCCAATCAGATGCTGCAATGATAACAAC  
 CTGGAGCCCTTCCACCCTCCTATGGCACCCACCACCTATGATCCCATGCTTAAAGTTGATGATGATGAA  
 CACTCGGATCCTGATTGGTTGCTTGGTGGCCATCATCTTCATCCTGCTGGCTATCATCGTATCATCCTG  
 TGGAGGAGTCTTGGCAGAAGATGCTAGAAAAGGCTTACGGAGGATGCTGGATGATGAAATGACAGTCA  
 GCCTTTCCTGCCAGCGAGTCCAGCATGTTCAATAACAACCGCTCCTCATCACCAAGTGAACAGGAGTC  
 CAACTCTACTTATGATCGAATCTTCCCCTTCGCCCTGACTACCAGGAGCCATCCAGACTGATCCGAAAG  
 CTTCCAGAGTTTGTCCAGGAGAGGAGGAGTCAAGGTGACGTGGTGTGTAAGCCGGCCAGCCCAATG  
 GACCTGAGGGCGTCCCCACTATGCAGAAGCCGACATAGTGAATCTCCAGGGAGTACAGGTGGCAACAC  
 CTACTGTGTGCCTGTGAACCATGGATCTGCTATCGGGAAAGATGTGGCTGTGGAAGAGTTCCCAGG  
 AAAGTGTGGCCTTCAAGGAGAAGCTGGGAGAAGGCCAGTTTGGGAGGTTTCATCTCTGTGAAGTGGAGG  
 GAATGGAAAAATTCAAAGACAAAGATTTTGCAGTATGATGTCAGTGCCAACCGCCTGTCCTGGTGGCCGT  
 GAAAAATGCTCCGAGCAGATGCCAACAAGATGCCAGGAATGATTTTCTAAGGAGATCAAGATCATGTCT  
 CGGCTCAAGGACCCAAACATCATCCGTCTCTTAGCTGTGTGCATCACTGAGGACCCGCTCTGCATGATCA  
 CGGAATACATGGAGAAATGGAGATCTTAATCAGTTTCTTCTCGCCACGAGCCTCTGAGTTCTGTCTAG  
 TGATGCCACAGTCAGTTACGCCAACCTGAAGTTTATGGCAACCCAGATTGCCTCTGGTATGAAGTACCTT  
 TCGTCTCTCAACTTTGTCCACCGAGATCTGGCCACACGAACTGTTTGTGGGCAAGAATTACACCATCA  
 AGATAGCTGATTTGGCATGAGCAGAACTGTACAGTGGTATTACTACCGGATCCAGGGCCGGGCGGT  
 GCTCCCCATTGCTGGATGTCTGGGAAAGCATTTGCTGGGCAAAATCACCACGGCAAGTATGATGTGG  
 GCCTTTGGGGTACTCTGTGGGAGACCTTACCTTTTGGCAGGAGCAGCCCTATCCCAGCTGTCCGATG  
 AGCAGGTTATCGAGAACTGGAGATTTCTCCGAGACCAAGGGAGGAGATCTATCTCCCTCAACCAGC  
 CCTTTGCCCGACTCTGTGATAAGCTGATGCTCAGCTGCTGGAGAAGAGAAACCAAGCACCAGCCATCC  
 TTCCAGGAAATACACCTCTGCTTCTTCCAGCAAGGAGCCGAGTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja1858\\_b11.zip](https://cdn.origene.com/chromatograms/ja1858_b11.zip)

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_022563

<b>Insert Size:</b>	2565 bp
<b>OTI Disclaimer:</b>	<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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> 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. <a href="#">More info</a></p>
<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>	<a href="#">BC138826</a> , <a href="#">AAI38827</a>
<b>RefSeq Size:</b>	8306 bp
<b>RefSeq ORF:</b>	2565 bp
<b>Locus ID:</b>	18214
<b>UniProt ID:</b>	<a href="#">Q62371</a>
<b>Cytogenetics:</b>	1 76.84 cM
<b>Gene Summary:</b>	<p>Tyrosine kinase that functions as cell surface receptor for fibrillar collagen and regulates cell differentiation, remodeling of the extracellular matrix, cell migration and cell proliferation. Required for normal bone development. Regulates osteoblast differentiation and chondrocyte maturation via a signaling pathway that involves MAP kinases and leads to the activation of the transcription factor RUNX2. Regulates remodeling of the extracellular matrix by up-regulation of the collagenases MMP1, MMP2 and MMP13, and thereby facilitates cell migration and tumor cell invasion. Promotes fibroblast migration and proliferation, and thereby contributes to cutaneous wound healing.[UniProtKB/Swiss-Prot Function]</p>