

## Product datasheet for **MC204469**

### **Ndnf (NM\_172399) Mouse Untagged Clone**

#### **Product data:**

|                           |                                       |
|---------------------------|---------------------------------------|
| Product Type:             | Expression Plasmids                   |
| Product Name:             | Ndnf (NM_172399) Mouse Untagged Clone |
| Tag:                      | Tag Free                              |
| Symbol:                   | Ndnf                                  |
| Synonyms:                 | A930038C07Rik; epidermacan            |
| Mammalian Cell Selection: | Neomycin                              |
| Vector:                   | PCMV6-Kan/Neo (PCMV6KN)               |
| E. coli Selection:        | Kanamycin (25 ug/mL)                  |



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**Fully Sequenced ORF:** >BC047154  
 AGCAGAGCTTAGCGAGCCGCGTATGAGCCGCCGCTCTGTGGCTGGTGCACGGGGCTCTGTCTCTGCAGC  
 CCGCGCCGGCGTTTAGCGAGCCAGTCTGCCGCGAGTGCCAGCTCCACGGGCGCGTTTCAGTATCCTCCCGC  
 CACCCAGCGCCCGCACTGACCAGCGCTGTCTGAGACCCCGGGCCGGCGCCGCTCTGCGCCACTTCG  
 CAGCAACTTCTGCGGCTGCGTGTGCGCGGCTTCTGCTTGTGTTGGAAGTTTGCAGCGCCCGCCACAAAG  
 TTGGGACACTTGGGCATTACATTTGCCCTAGCGTGCACGTCCCTCGGTTCTGGATCCTGGTATTTGAC  
 ATCTTGGTAGGATCCCCGGACCTGGGCTTTTTCCGCACCACACACCCCGGGAAGAAGAAAAAAAC  
 CAACCAAACTTTCTTCTCCCACTAGAAAAACAAATTCTTTAAGGATGGAGCTGTCTACTGGTGTG  
 CTGTGCCTCTGTACCCTCACTTCAAGGACCCAGAAGCTGCCACCCGAGATGAGGAATTTTTCAGA  
 TGCAGATCCGGGATAAGGAATTTTTCACGATTCTGTGATTCCAGATGGAGCTGAAGTCAGCAGTTA  
 TCTCTTTAGAGATACACCTAGAAGGATTTCTTCATGGTTGAGGAAGATAACACCCCACTGTCTAGTACA  
 GTGACACCTTGCATGCACCTTTGGAGTGAAGCTTAGCCTTCAGGAGCTGCATGAGGGTCCAGTGCAG  
 ATGGATCAGGTGACCCAGAACTACTTGACCAGCAGAAGCAGCAGATGACTGATGTAGAGGGCACAGAACT  
 ATTCTCTACAAGGGCAATGATGTAGAGTATTTCTGTCTTCAAGTTCCCATCTGGTTTGTATCAGTTG  
 GAGCTTCTTCAACAGAGAAAGACACATTTCAAAGTATATGCCACCACACACAGAATCTGACCAGC  
 CATACCTGAATTACCATATGACCCAGAGTTGATGTGACCTCCTTTGGACGTACCACAGTCACTTTGGC  
 CTGGAAGCCAAGCCCTACAGCCTCTATATTGAAACAACCCATAGAGTACTGTGTGGTCATCAACAAGGAG  
 CACAATTTCAAAAGCCTCTGTGCAGCAGAAACAAAGATGAATGCAGATGATGCCTTCATGGTGGCGCCCA  
 AACCTGGTCTAGACTTTAACCCCTTTGACTTTGCCCATTTTGGATTTCCAACAGATAATTTGGGTAAGA  
 TCGAAGCCTCCTGGCAAAGCCTTCTCCAAAGTGGGGCGCCATGTCTACTGGAGGCCCAAGGTTGACATT  
 CAAAAAATTTGCATAGGAAATAAAACATTTTACAGTCTCTGACCTGAAGCCCGATACCCAATACTACT  
 TTGATGTCTTCAATACCAACACCAACATGAGTACAGCTTATGTGGTGCCTTTGTCAGGACCAA  
 GGAGGAGGCAAAACAGAACAGTGGAACTCAAAGACGGGAGGGTCACAGATGTGTTTAAAAAGGAAG  
 GGGAAAAAGTTTCTACGGTTTGGCTCCAGTCTCCTCTACCAAAAGGTACGTTCTTTATTCTTTGTA  
 TGGATGCCGTTCAAGTCCAAGTGAGAAGAGATGGGAGGCTGCTTCTGTACAGAATGTGGAAGGCATTCTG  
 GCAGTTTCAGTTAAGAGGAAAACCCAAAGGAAAATACCTCATTGACTGAAAGGCAACAGGAAAGGAGCA  
 TCAAAGCTGAAAATACTGGCGACCACCAGGCCAGTAAGCATGCATTCCCTCTCTTCCCGAAGACACAA  
 GAATCAAAGCTTTTGACAAGCTACGTACCTGCTCTTCAAGTACGGTGGCATGGCTTGGCACCCAAGAAAG  
 GAGAAAGTTTGTATCTACAGAAAGGAAGTGGATGGAAGTACAGTGAAGACCAGAAGAGAAGAGAGCAA  
 AACAGTGCCTAGGACCAGACACCAGAAAGAAATCAGAGAAGGTCTTTGCAAATACTTCCACAGCCAAA  
 ACCTGCAGAAAGCAGTGACTACAGAGACAATCAGAGATCTGCAGCCTGGGAAGTCTTACCTGCTGGATGT  
 TTACGTCGTAGGACATGGGGGACACTCTGTGAAGTATCAAAGTAAATTTGTGAAAACAAGGAAGGTCTGT  
 TAGTCACCTTGAGTGAAGATCAGGAGAACTCCAGGAGAGACATGGAGTCACACTGCTTGTAACTGACTAC  
 TCTCGTGACAAACAAAAGTTGTACTTGAAGAAAGGTAACAACATGTGTACATTGATGCTTGCCTAATG  
 TAGCATGGAGACTTGTACTACGCACACCTGTGGTACTTAGGGTCCATCTGTCTAATGCTGGTTAATGTC  
 AAAAGAAGAGGGTATCTCAATGGATGCCACCCCTTGCTTTGACCATTCATGAAGTCTTCTAAATTATT  
 TTATTACCTAAAATTTTAAATATGCCATTCTGTGACACATTCAAAATGCAAATAATTCCTCTCTATA  
 GATGTTAGGGGAAGTTTATATATAAATATATAAATATAAATTATTTATAAGTCTGTTTAAATTGTTGG  
 TGTTTCTATTATTGTAAGCTATTAAATCTTTCTGTGTTAAAGTATAGATCTAATCTAAGATCGTATCAC  
 CCTCTAAGCAGTAATATTGTTGTAATTTCTTTCTGTTAAAGTATAGATCTAATCTAAGATCGTATCAC  
 CTCATGTAAAAAGTTGATATACATTATTCATGTATATAAAATTAATAAAAAAAAAAAAAA

**Restriction Sites:** RsrII-NotI

**ACCN:** NM\_172399

**Insert Size:** 1707 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).

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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>Note:</b>                  | Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>RefSeq:</b>                | <u><a href="#">BC047154</a></u> , <u><a href="#">AAH47154</a></u>                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>RefSeq Size:</b>           | 2790 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>RefSeq ORF:</b>            | 1707 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Locus ID:</b>              | 68169                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>UniProt ID:</b>            | <u><a href="#">Q8C119</a></u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Cytogenetics:</b>          | 6 C1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Gene Summary:</b>          | Promotes neuron migration, growth and survival as well as neurite outgrowth (By similarity). Promotes matrix assembly and cell adhesiveness. Promotes endothelial cell survival, vessel formation and plays an important role in the process of revascularization through NOS3-dependent mechanisms (PubMed:24706764).[UniProtKB/Swiss-Prot Function]                                                                                                                                                                   |