

## Product datasheet for **RN212154**

### **Nbn (NM\_138873) Rat Untagged Clone**

#### **Product data:**

|                    |                                    |
|--------------------|------------------------------------|
| Product Type:      | Expression Plasmids                |
| Product Name:      | Nbn (NM_138873) Rat Untagged Clone |
| Tag:               | Tag Free                           |
| Symbol:            | Nbn                                |
| Synonyms:          | Nbs1                               |
| Vector:            | pCMV6-Entry (PS100001)             |
| E. coli Selection: | Kanamycin (25 ug/mL)               |
| Cell Selection:    | Neomycin                           |



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**Fully Sequenced ORF:** >RN212154 representing NM\_138873  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTGGAAGCTGCTCCCGCCGCAAGTGGCGCTCCAGGAGAACCATGTCGACTTTTGGCTGGCGTAGAGT  
 ACATTGTTGGGAGGAAAACTGTGCCATTCTAATCGAAAAATGATCAGTCAATCAGTCGAAATCATGCTGT  
 ATTAAGAGTAAACTTTTCCTGTAACCCAGTTTGAGTCAAACGGATGAAATTCCTACATTAATAATAAAAGAT  
 AATTCTAAGTATGGAACCTTTATTAACGAAGAAAAATGCAGAATGGCCTTTCTCCACTTTGAAGACAG  
 GAGATAGAGTTACCTTTGGGGTGTGAAAGTAAATTCAGAGTAGAATACGAGCCTTTGGTTGTTTGCTC  
 TTCTTGTTTAGATGTCTCTGGGAAAACTGTTTTAAACCAAGCTATATTACAGCTTGGAGGACTCACTGCA  
 AACAGCTGGACAGAAGAGTGTACTCACCTTGCCATGTCATCAGTCAAAGTACCATTAAACTATATGTG  
 CACTCATTGTGGACGTCCAATTGTAAGCCAGAATACTTTCTGAATTTCTCAAAGCAGTTGAGTCCAA  
 GACACAACCTCCAGAAATGAAAGTTTTACCCACCCATCGATGAACCAGCTATTGGAATAAAAGTGTG  
 GATCTGTCCGGACGACGTGAAAGAAAAACAATCTCAAAGGAAAAACATTCGTGTTTTAAATGCCAAGC  
 AGCATAAGAACTCGGCTCGGCAGTTGTTTTCGGAGGTGGGAAGCCAGGCTGATGGCAGAAAGGAGTGA  
 AGAGGAACAGAGCTTCTCTCAGCTCCCGAACCTGTGTTGTTGACGTAGGAATAACAAACACACAGCTC  
 ATAATTACGGACTCCCAGAGGAAGTGGATTCAATTTGATAATGGATATACTTCAAAGGCATGATCTCAGAC  
 CTATTCCTGAAGCAGAGATTGGATTGGCTGTTATTTTTATGACTACAGAGAGTTACTGTAATCCGCAGGG  
 CCAGCCTTGTACAGAGGTAAAGACGACGACTCCAGGACCAAGCCTTTCCAGGGCCTGTCAGCCAATGGA  
 AAAGTCATCCCCAGTGCCTCAATGAATATGACCACATACGTAGCTGACACAGAATCAGAGCCAGCAGATA  
 CATGTATGTCTCTGAGTAAAAGACCAGAAGAAGTAAAGATCTTTGGACTCGATCAAACCTAGAAAAGT  
 TTTACAAGGAACATGCAATATAAAGGAGACCTCTAATCAAAGCTCCAATTCCTAACCAATGCAGCATCAAT  
 AACTGTTAGGGGAAAGGCCCCGAACATCAGCTTTCACCAATGAAATGTCCTGCTGCAAGTAAAAATA  
 AAGATTGGTCTTCTCAGCAGCAGCTGAACCTCATCAAAACTACTTCCAGCCATGCTCCAGAAAAAGGGA  
 AAGGGTGAAGAAAAATCCAGAACAGTCTCATGCAAAATCGTCAAGAGTGGAACTGTCTTGTCTCTTTTA  
 GAACAAACGCAACCTGCAGAACCCTCACTGTGAAAAGCAAAGACCATGAGTCTCAGAGTGAGACTCTGG  
 GCAGGGCATCCAATGCCTCATCTGTGGTGAATAGACATAAAACCCAATGGGAAGAGTCTGACAGTAA  
 GTCATTTCCACAGAAGATCTTAGAGCAAGAAAAAGAAAAGAGTGGATTTGTCTACAGAAGAGGAAGTG  
 TTGGAAGAGTTACTCAGGAGCACAAAGCCAGAGCTGGCAGTTCAAGTGAAGGTTGAAAAGCAGGAGGCAG  
 ATGTCAGCATCAGAAAGAAGCCAGGATGGATGCAGAGAGGAATCAGCACCTGAACGGTGGCCCAGTGCC  
 AGAAAGCAACAGCGCACTTCAAGAAGATGAAACAGAAAAGAAAAGATGAGCTTCAGATAGAAGCATGGTCA  
 ACAAAACGTGAAGTATCTAATACTGATGAGCTTCCAGGACAGCAGTGAAGAACTTCCAAGAAAAGTCTGC  
 TGACTGAATTTAGGCTCACTGGTTGTCCATAATAACTCTTCCAGAAATCTGTGCCACTAAATGGTCGTGG  
 TGAAGTGAAGAATTTCAAGAAATCAAGAAGGCTACGTGTCTGGAGCAGGAAAGCTTCCACACATTATT  
 GGAGGATCAGATTTAATAGGTCACCATGCTCGAAAGAATACTGAATTAGAAGAGTGGTTGAAACATGAAA  
 TGGAGGTACAGAAACAACAGCGAAAGAAGACTCTCTTGTGATGATCTGTTTAGATATAATCCTAATGT  
 AAAAGAAGATAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_138873  
**Insert Size:** 2253 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>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="#">NM_138873.2</a> , <a href="#">NP_620228.1</a>   |
| <b>RefSeq Size:</b>           | 2601 bp   |
| <b>RefSeq ORF:</b>            | 2253 bp   |
| <b>Locus ID:</b>              | 85482   |
| <b>UniProt ID:</b>            | <a href="#">Q9JLL9</a>  |
| <b>Cytogenetics:</b>          | 5q13  |
| <b>Gene Summary:</b>          | may be involved in regulation of cardiomyocyte proliferation; may act in a complex with MRE11 and RAD50 to play roles in DNA repair, activation of cell cycle checkpoints, and telomere maintenance [RGD, Feb 2006]   |