

## Product datasheet for **SC127632**

### **NBR1 (NM\_031858) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	NBR1 (NM_031858) Human Untagged Clone
Tag:	Tag Free
Symbol:	NBR1
Synonyms:	1A1-3B; M17S2; MIG19
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_031858, the custom clone sequence may differ by one or more nucleotides

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ATGGAACACAGGTTACTCTAAATGTGACTTTTAAAAATGAAATTCAAAGCTTTCTGGTTTCTGATCCAG
AAAATACAACCTGGGCTGATATCGAAGCTATGGTAAAAGTTTCATTTGATCTGAATACTATTCAAATAAA
ATACCTGGATGAGGAAAATGAAGAGGTATCCATCAACAGTCAAGGAGAATATGAAGAAGCGCTTAAGATG
GCAGTTAAACAGGGAAAACCAACTGCAGATGCAAGTCCACGAAGGGCACCATGTCGTTGATGAAGCCCCAC
CCCCAGTTGTAGGAGCAAACGACTAGCTGCCAGGGCAGGGAAGAAGCCACTTGACATTACTCTTCACT
GGTGAGAGTCTTGGGATCAGACATGAAGACCCAGAGGATCCTGCAGTGCAGTCGTTTCCACTTGTTCAC
TGTGACACAGACCAGCCTCAAGACAAGCCCCAGACTGGTTCACAAGCTACCTGGAGACGTTTCAGAGAAC
AAGTGGTTAACGAAACGGTTGAGAAGCTTGAACAGAAATTACATGAAAAGCTTGCCTCCAGAACCATC
CTTGGGTTCTTGTCCCTCAGAAGTCTCAATGCCTACTTCAGAAGAAACATTGTTTTTCCAGAAAACCAG
TTCAGCTGGCATATTGCTTGCAACAACGCCAAAGAAGGATTGTTGGTGTCCGCTACCAGTGTAGCCTAT
GCCCATCTACAATATCTGTGAAGATTGTGAAGCAGGGCCATATGGCCATGACACTAACCACGTCCTGCT
GAAGTTGCGGAGACCTGTTGTGGGCTCCTCTGAACCGTTCTGCTACTCAAAGTACTCTACTCCTCGTCTT
CCTGCTGCTCTGGAACAAGTCAGGCTCCAGAAAACAGGTTGATAAGAACTTCTTAAAGCAGAAAAGCAAA
GGTTGCGAGCTGAGAAGAAAACAGTAAAGCAGAGGTCAGGAACCTTAAAAAGCAGCTTAAACTCCATAG
GAAAATTCACCTGTGGAATTCATCCATGGACTCCAGAGCCCCAAGTCTCCTTTAGGCCGACCTGAGAGC
TTGCTCCAGTCTAATACCTGATGCTCCCTTTCAGCCCTGTACCTCCGTTATGCCAATGCTCAGTGCAG
CATTTGTGGATGAGAATTTCCCTGATGGGACTCACCTTCAGCCAGGAACCAAGTTTATCAAACACTGGAG
GATGAAAAATACAGGAAATGTAAGTGGAGTGCAGACACAAGCTCAAGTTCATGTGGGAAACCTGACT
TTGGTTCCACAGAAAAGAAGGATGTTTTGGTCCCTCAAGGCCCGCCATGTGGGAACTGTATCTG
TGGAGTTCATTGCCCCAGCCTTGGAGGGAACGTATACTTCCATTGGCGTCTTCTCACAAAGGCCAGCA
ATTTGGGCTCGGCTGCTGGTGCAGTATCATAGTAGATCCTTCCCTCCGAAAGAGAGCCCTGATAACATT
GAAAAGGGCATGATCAGCTCAAGCAAACTGATGATCTCACCTGCCAGCAAGAGGAACTTTTCTTCTGG
CTAAAGAAGAAAAGACAGCTTGGTGAAGTACTGAGCAGACAGAAGGGACAGCAGCCTGCATCCCACAGAA
GGCAAAAATGTTGCCAGTGAGAGGGAGCTCTACATCCCATCTGTGGATCTTCTGACTGCCAGGACCTG
CTGTCTTTGAGCTGTTGGATATAAACATTGTTCAAGAGTTGGAGAGAGTGCCCCACAACACCCCTGTGG
ATGTGACTCCCTGCATGTCTCCTCTGCCACATGACAGTCTTTAATAGAGAAGCCAGGCTTGGGGCAGAT
AGAGGAAGAGAATGAAGGGCAGGATTTAAAGCACTTCTGATTCTATGGTGTGAGTAAAGAGGAAGGCT
GAGAACATTGCTTCTGTGAGGAAGCAGAAGAAGACCTGAGTGGGACCCAGTTTGTGTGTGAGACAGTAA
TCCGATCCCTTACCTTGGATGCTGCCCCAGACCACAACCCTCCTTGCAGACAGAAGTCTTGCAGATGAC
ATTTGCCTTGCCTGAAGGACCCTTGGAAATGAGAAGGAGGAGATTATCCATATCGCTGAGGAAGAAGCT
GTCATGGAGGAGGAGGAGGATGAGGAGGATGAGGAGGAGGAGGATGAGCTCAAAGATGAAGTTCAAAGTC
AGTCTCTGCTTCTCAGAGGATTACATCATATCCTGCCTGAGTGTCTTGTATACCAGCCGCCCCCTGGG
GGATTCTATGTACAGCTCTGCGCTCTCACAGCCAGGCTGGAGCGAGGTGCTGAAGGCAAGCCTGGGGTT
GAGGCTGGGCAGGAACCAGCTGAGGCTGGGAAAGACTCCCTGGAGGGGAGAACCAGCCACAGGAGCACA
GCATAAGTGACATCCTCACGACCTCACAGACTCTGGAACAGTCCCCCTAATCCCAGAGGTAGTGGAGCT
TCCACCGTCACTGCCAGGAGTCTCCTTGTGTACATCATATGTTTCCCAGGAGTGGATTACAGTT
ACCATAACAGAAGTTTCTCAGTCCCTGATCAGATCAGAGGAGAGCCAGAGGCTCATCAGGACTTGTA
ACAGCAGACAGAAGAGCTATGACCACTCAAGGCACCATCATGGGAGCAGCATTGCTGGAGGACTGGTGAA
GGGGGCTTTGTCTGTTGCTGCCTCTGCATACAAGGCCCTGTTGCTGGGCCACCAGTCACTGCACAGCCA
ATAATTTCTGAAGATCAGACAGCAGCCCTGATGGCCATCTCTTTGAAATGGGATTCTGTGACAGGCAGC
TGAACCTACGGCTGCTGAAGAAACACAATTACAATATCCTGCAGGTTGTGACAGAACTTCTTCAGTTAAA
CAACAACGACTGGTACAGCCAACGCTATTGA
```

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_031858 unedited  
 CGCGTATTCGGCACGAGGCACCTGAGGCCTGAATTCAGCGTAAGATAGTGTCCAAAGCAG  
 TCTTAAGAAGAGGTCCCATTACCCCACTCTTCCGCCCTAATGGAGGTCTCCAGTTTAGG  
 TAAATAAAAGGATTGTTGGGAGGTGGAGGGAAAGAACTACTATTTCCAACATGCATTGCG  
 GAACGAAAGGCCCTGGCCACACTGTTCCCTGGAACTGTAGTCTTATGGAGAGGAACATC  
 CAATACCAAAGCGGGCACAATTCTCACGAAATCCAGTGGATAGATTGGAGACCTCCGGC  
 GGCTTATACATGTCAACAGTAATGGATTGGAGTGTGTTATGTTCTCCTATCTTGAGAGC  
 AGAGACTAGGCCAAAAAAGATACCTACAACCTTAGGAAGACTACGATTCCCATCCAGC  
 CCCACGAGTCTCGGGCAAGTAGTCTTAAAGCCTCACAGCATGGAACCACAGGTTACTCT  
 AAATGTGACTTTTAAAAATGAAATTCAAAGCTTTCTGGTTTCTGATCCAGAAAATACAAC  
 TTGGGCTGATATCGAAGCTATGGTAAAAGTTTCATTTGATCTGAATACTANTTCAAATAA  
 AATACCTGGATGAGGAAAATGAAGAGGTATCCATCAACAGTCAAGGGAGATATGAAGAAG  
 CGCTTAAGATGGCAGTTAAACAGGGAAACCAACTGCAGATGCAAGTCCACGAAAGGCACC  
 NATGTCGTTGATGAAAGCCACCCCACTTGTAGGAGCANAACGACTAGCTGNCAGGGC  
 AGGGAAGAAAGCACTTGACATACTCTTNACTGGNGAAAGTTTTTGGGATCAGACTGAAG  
 ACCCAAAGATCCTGCGGGAAANCGTTTCCATGGGTTTCATGGG

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_031858 unedited  
 TAGCTTTGGACCGCGGCCCAATCTANGATCGAGTTTTTTTTTTTTTTTTTTAGGAATT  
 TCCAAAAACATTTATTTACCATTCTTTAGGTGGTTATGTACAAGTACATACATAACCAG  
 GAGAGCAACCCGGGCCCTCTGGCCCTCGATTATAAACTCCGATGGTCAAGACAGGTCC  
 CACCCATCAACCAATTACACCCTGCCGCTCCACCTTCTACCCGGAAGCCCGATTAAAA  
 CGTTTTAAATAATGAACGGCCTGGCTGGCTTGAGTTTGAATCCTGGTTTATTTAAGTAG  
 CATTACAGGAGTTACTGTAAATAAACATCATTATGGCTAATGACTAATAAAAATCACCA  
 TTCATTACAAATACCAACCAGGTTAGATAATACTATTAATCTTTTTCCCTTCGGTCT  
 GGGGTTTCATATTTCTCTTTCTGGAAGTCATTTTCATGGATAAAATATTTAGCATTTTT  
 TGTTACCTCTTCTTCCAACTGTAACAACACTTCTGTAACAGAGTGAGAACCTG  
 GGTTTCATGGACAAGCTCTTTCCACTTATCTTCGGGTTAAACCAAACTTTTTGAGCAAC  
 TTTGCCCTGTCCAAGTTTTGCAGAACACCAGCTGCCTCTTCTGTTCTAGGCATTCTAG  
 GGCTAGATACCTGTGAACGGACTTCAAGCATTAAAGAAGTCATCAGCATTTCCTACTAC  
 CACACACTCATTTGCCCACTTGAACCTGAACTTCACTGACATTAATTTANNGAGCCTGCCTT  
 TGCTTTTACATGTTTCTATTTCCCACTGTAAGTAAATAGATCTGCCCTGACATTA  
 GAAAAAAGGCACTGNTAAATTACTTTTTCTTTTAAATAACGGATTTTTCTTTCTATTAGA  
 TACAAAATATTCACATACTATATTTTTNCCTTAATAAANGT

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_031858

**Insert Size:**

4880 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).

**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).

<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_031858.1</a></u> , <u><a href="#">NP_114064.1</a></u>
<b>RefSeq Size:</b>	4770 bp
<b>RefSeq ORF:</b>	2901 bp
<b>Locus ID:</b>	4077
<b>Cytogenetics:</b>	17q21.31
<b>Domains:</b>	PB1, ZnF_ZZ
<b>Protein Families:</b>	Druggable Genome
<b>Gene Summary:</b>	<p>The protein encoded by this gene was originally identified as an ovarian tumor antigen monitored in ovarian cancer. The encoded protein contains a B-box/coiled-coil motif, which is present in many genes with transformation potential. It functions as a specific autophagy receptor for the selective autophagic degradation of peroxisomes by forming intracellular inclusions with ubiquitylated autophagic substrates. This gene is located on a region of chromosome 17q21.1 that is in close proximity to the BRCA1 tumor suppressor gene. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Apr 2014]</p> <p>Transcript Variant: This variant (2) includes an additional internal fragment in the 5' UTR, as compared to that of transcript variant 3, and encodes an identical protein to that of transcript variant 1 and 3.</p>