

Product datasheet for SC107091

NBR1 (NM_031862) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NBR1 (NM_031862) Human Untagged Clone
Tag:	Tag Free
Symbol:	NBR1
Synonyms:	1A1-3B; IA13B; M17S2; MIG19
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC107091 sequence for NM_031862 edited (data generated by NextGen Sequencing)

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ATGGAACCACAGGTTACTCTAAATGTGACTTTTAAAAATGAAATTCAAAGCTTTCTGGTT
TCTGATCCAGAAAATACAACCTTGGGCTGATATCGAAGCTATGGTAAAAGTTTCATTTGAT
CTGAATACTATTCAAATAAAATACCTGGATGAGGAAAATGAAGAGGTATCCATCAACAGT
CAAGGAGAATATGAAGAAGCGCTTAAGATGGCAGTTAAACAGGGAAACCAACTGCAGATG
CAAGTCCACGAAGGGCACCATGTCGTTGATGAAGCCCCACCCCAAGTTGTAGGAGCAAAA
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TTGGGATCAGACATGAAGACCCAGAGGATCCTGCAGTGCAGTCGTTTCCACTTGTTCAC
TGTGACACAGACCAGCCTCAAGACAAGCCCCAGACTGGTTCACAAGCTACCTGGAGACG
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CCTGATGGGACTCACCTTCAAGCCAGGAACCAAGTTTATCAAACACTGGAGGATGAAAAAT
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GATGATCTCACCTGCCAGCAAGAGGAACTTTTCTTCTGGCTAAAGAAGAAAGACAGCT
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 GTTGCCAGTGAGAGGGAGCTCTACATCCCATCTGTGGATCTTCTGACTGCCCAGGACCTG
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 AAACACAATTACAATATCCTGCAGGTTGTGACAGAACTTCTTCAAGTTAAACAACAACGAC
 TGGTACAGCCAACGCTATTGA

Clone variation with respect to NM_031862.2
 2768 a=>g

**5' Read Nucleotide
 Sequence:**

>OriGene 5' read for NM_031862 unedited
 CAGTATATTTGTATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCCCCACAG
 GATAGCGGCAGAGCCGGTAGCGGACGGTCTTGCATTGGCTCCGGCAGGCGCCCCCGG
 GGGCGGGAAGCTGCCTCACAGCATGGAACCACAGGTTACTCTAAATGTGACTTTTAAAAA
 TGAAATTCAAAGCTTTCTGGTTTCTGATCCAGAAAATACAACCTGGGCTGATATCGAAGC
 TATGGTAAAAGTTTCATTTGATCTGAATACTATTCAAATAAAAATACCTGGATGAGGAAAA
 TGAAGAGGTATCCATCAACAGTCAAGGAGAATATGAAGAAGCGCTTAAGATGGCAGTTAA
 ACAGGGAAACCAACTGCAGATGCAAGTCCACGAAGGGCACCATGTCGTTGATGAAGCCCC
 ACCCCCAGTTGTAGGAGCAAAACGACTAGCTGCCAGGGCAGGGAAGAAGCCACTTGCACA
 TTA CTCTTCACTGGTGAGAGTCTTGGGATCAGACATGAAGACCCAGAGGATCCTGCAGT
 GCAGTCGTTTCCACTTGTTCATGTGACACAGACCAGCCTCAAGACAAGCCCCAGACTG
 GTTCACAAGCTACCTGGAGACGTTTCCAGAGAACAAGTGGTTAACGAAACGGTTGAGAAGCT
 TGAACAGAAAATTACATGANAAGCTTGTCTCCAGAACCCATCCTNTGGTTCTTGTCCCTC
 AGAAGTCTCAATGCCTACTTCAGAAGAAACATTGNNTTGGCCAGAAACCAGTTTCACTGG
 CATATTGCTTTTGCACACTGCCNAAGAANNGATTGTGGTGTCCGCTACCAGTGTAGCCTA
 TGTCATCCCTACATATCTGTGAAGATTGTGAAAGCAGGCCATATGGCCATGACACTAAC
 CACGTTCTGCTGAAGTTGCGGAGACCTGTGTGGCTCCTCTGA

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_031862 unedited TTGGACCGCGGGCCGCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTGGCAGTT TGAATCCTGGTTATTTAAGTAGCATTACAGGATTATACTGTAATAAACATCATTATGG CTAATGACTAATTAATAACACCATTACAAATACCAACCAGGTTAGATAAATACTATT AACTATCTTTCCCTTCGGTCTGGGTTTCATATTCTTCTTTCTGGAAGTCATTTTCA TGGATAAAATATTTAGCATTTTTGTTACCTCTTCCTTCCCACTGTACTCAACACACT TCTGTAACAGAGTGAGAACCTGGGTTTCATGGACAAGCTCTTTTCCACTTATCTTCGGGT TAAACAAAACCTTTTTCAGCAACTTTGCCCTGTCCAAGTTTTGCAGAACCAGCTGCC TCTTCTGTTCTAGGCATTCTAGGGCTAGATACCTGTGAACGGACTTCAAGCATTAAAGA AGTCATCAGCATTTCCTATACCTCACACACTCATTGCCCACCCTGAACCTCACTGAC ATTAATTTAGGAGCCTGCCTTTTGCCTTTCACATGTTTCTATTTCCCCACTGTACTGTA AAATAAGATCTGCCCTGACATTAAGAAAAAGGCAACTGTTAAATTTACTTTTCCCTTTA ATAACGGGATTTTTCTTTTCTATAAGATTAGCAAAATATTTTACAATACCTATATTTT TTCCCTTAAATAAAAATGTATGCAAAATTAATAATAGACATTGCTCAATAGGGGCTGG TAGGTTTATCAGCACACTCTTCTCTTTCATTGAATGCAGAGATCCCTTTGAAGGTGGA ACTCTTGAATGCCATGGAGTCTTTAGAAAGCAACGGTGCCATATTAAGATTGCAGGAAA ATACTTCTCCTTGAAAAGAAGAGAACACATTTTANATGCTCTGGGGGTATTCATGCCAA TACTATGAGCTGAGGGGATACN
Restriction Sites:	NotI-NotI
ACCN:	NM_031862
Insert Size:	4110 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).
Reconstitution Method:	<ol style="list-style-type: none"> 1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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.
RefSeq:	<u>NM_031862.1</u> , <u>NP_114068.1</u>
RefSeq Size:	4654 bp
RefSeq ORF:	2901 bp
Locus ID:	4077
UniProt ID:	<u>Q14596</u>
Cytogenetics:	17q21.31
Domains:	PB1, ZnF_ZZ

Protein Families: Druggable Genome

Gene Summary: 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]

Transcript Variant: This variant (3) differs in the 5' UTR compared to variant 1. Both variants 1 and 3 encode isoform a.