

## Product datasheet for **RC222234**

### **NBR1 (NM\_031858) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	NBR1 (NM_031858) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NBR1
Synonyms:	1A1-3B; M17S2; MIG19
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC222234 representing NM\_031858  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGAACCACAGTTACTCTAAATGTGACTTTTAAAAATGAAATTCAAAGCTTTCTGGTTTCTGATCCAG  
 AAAATACAACCTGGGCTGATATCGAAGCTATGGTAAAAGTTTCATTTGATCTGAATACTATTCAAATAAA  
 ATACCTGGATGAGGAAAATGAAGAGGTATCCATCAACAGTCAAGGAGAATATGAAGAAGCGCTTAAGATG  
 GCAGTTAAACAGGGAAACCAACTGCAGATGCAAGTCCACGAAGGGCACCATGTCGTTGATGAAGCCCCAC  
 CCCAGTTGTAGGAGCAAACGACTAGCTGCCAGGGCAGGGAAGAAGCCACTTGACATTACTCTTCACT  
 GGTGAGAGTCTTGGGATCAGACATGAAGACCCAGAGGATCCTGCAGTGCAGTCGTTTCCACTTGTTC  
 TGTGACACAGACCAGCCTCAAGACAAGCCCCAGACTGGTTCACAAGCTACCTGGAGACGTTTCAGAGAAC  
 AAGTGGTTAACGAAACGGTTGAGAAGCTTGAACAGAAATTACATGAAAAGCTTGCCTCCAGAACCATC  
 CTTGGGTTCTTGTCCCTCAGAAGTCTCAATGCCTACTTCAGAAGAAACATTGTTTTTCCAGAAAACCG  
 TTCAGCTGGCATATTGCTTGCAACAACGCCAAAGAAGGATTGTTGGTGTCCGCTACCAAGTGTAGCCTAT  
 GCCCATCTACAATATCTGTGAAGATTGTGAAGCAGGGCCATATGGCCATGACACTAACCACGTCCTGCT  
 GAAGTTGCGGAGACCTGTTGTGGGCTCCTCTGAACCGTTCTGTCCTCAAGTACTCTACTCCTCGTCTT  
 CCTGCTGCTCTGGAACAAGTCAGGCTCCAGAAACAGGTTGATAAGAAGTTCTTAAAGCAGAAAAGCAAA  
 GGTTGCGAGCTGAGAAGAAACAACGTAAGCAGAGGTCAAGGAACCTAAAAAGCAGCTTAACTCCATAG  
 GAAAATCACCTGTGGAATTCATCCATGGACTCCAGAGCCCCAAGTCTCCTTTAGGCCGACCTGAGAGC  
 TTGCTCCAGTCTAATACCCTGATGCTCCCTTTCAGCCCTGTACCTCCGTTATGCCAATGCTCAGTGCAG  
 CATTTGTGGATGAGAATTTGCCTGATGGACTCACCTTCAGCCAGGAACCAAGTTTATCAAAACACTGGAG  
 GATGAAAAATACAGGAAATGTAAGGTGGAGTGCAGACACAAGCTCAAGTTCATGTGGGAAACCTGACT  
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 TGGAGTTCATTGCCCCAGCCTTGGAGGGAACGTATACTTCCCATTGGCGTCTTTCTCACAAAGGCCAGCA  
 ATTTGGGCTCGGGTCTGGTGCAGTATCATAGTAGATCCTTCCCTCCGAGAGAGCCCTGATAACATT  
 GAAAAGGGCATGATCAGCTCAAGCAAACTGATGATCTCACCTGCCAGCAAGAGGAACTTTTCTTCTGG  
 CTAAGAAGAAAGACAGCTTGGTGAAGTACTGAGCAGACAGAAGGGACAGCAGCCTGCATCCCACAGAA  
 GGCAAAAATGTTGCCAGTGAGAGGGAGCTCTACATCCCATCTGTGGATCTTCTGACTGCCAGGACCTG  
 CTGTCCTTTGAGCTGTTGGATATAAACATTGTTCAAGAGTTGGAGAGAGTGCCCCACAACACCCCTGTGG  
 ATGTGACTCCCTGCATGTCTCCTCTGCCACATGACAGTCTTTAATAGAGAAGCCAGGCTTGGGGCAGAT  
 AGAGGAAGAGAATGAAGGGGCAGGATTTAAAGCACTTCTGATTCTATGGTGTGAGTAAAGGAAAGGCT  
 GAGAACATTGCTTCTGTGGAGGAAGCAGAAGAAGACCTGAGTGGGACCCAGTTTGTGTGTGAGACAGTAA  
 TCCGATCCCTTACCTGGATGCTGCCCCAGACCACAACCTCCTTGCAGACAGAAGTCTTGCAGATGAC  
 ATTTGCCTTGCCTGAAGGACCACTTGGAAATGAGAAGGAGGAGATTATCCATATCGCTGAGGAAGAAGCT  
 GTCATGGAGGAGGAGGAGGATGAGGAGGATGAGGAGGAGGAGGATGAGCTCAAAGATGAAGTTCAAAGTC  
 AGTCTCTGCTTCTCAGAGGATTACATCATCATCCTGCCTGAGTGTCTTGTATACCAGCCGCCCCCTGGG  
 GGATTCTATGTACAGCTCTGCGCTCTCACAGCCAGGCCCTGGAGCGAGGTGCTGAAGGCAAGCCTGGGGTT  
 GAGGCTGGGCAGGAACCACTGAGGCTGGGGAAGACTCCCTGGAGGGGAGAACCAGCCACAGGACACACA  
 GCATAAGTGACATCCTCACGACCTCACAGACTCTGAAAACAGTGCCCTAATCCCAGAGGTAGTGGAGCT  
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 ACCATACCAGAAGTTTCTCAGTCCCTGATCAGATCAGAGGAGAGCCAGAGGCTCATCAGGACTTGTA  
 ACAGCAGACAGAAGACTATGACCACTCAAGGCACCATCATGGGAGCAGCATTGCTGGAGGACTGGTGAA  
 GGGGGCTTTGTCTGTTGCTGCTCTGCATAACAAGCCCTGTTGCTGGGCCACCAGTCACTGCACAGCCA  
 ATAATTTCTGAAGATCAGACAGCAGCCCTGATGGCCCTCTCTTTGAAATGGGATTCTGTGACAGGCAGC  
 TGAACTACGGCTGCTGAAGAAACACAATTACAATATCCTGCAGGTTGTGACAGAAGTCTTTCAGTTAA  
 CAACAACGACTGGTACAGCCAACGCTAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC222234 representing NM\_031858  
 Red=Cloning site Green=Tags(s)

MEPQVTLNVTFKNEIQSFLVSDPENTTWADIEAMVKVSFDLNTIQIKYLDEENEEVSINSQGEYEEALKM  
 AVKQGNQLQMQVHEGHHVVDEAPPPVVGAKRLAARAGKKPLAHYSSLVRVLGSDMKTPEDPAVQSFPLVP  
 CDTDQPQDKPPDWFTSYLETTFREQVVNETVEKLEQKLHEKLVLQNP SLGSCPSEVSMPTSEETLFLPENQ  
 FSWHIACNNCQRRIVGVRYQC SLCP SYNICEDCEAGPYGHD TNHVLLKLRPRPVGSEPFCHSKYSTPRL  
 PAALAEQVRLQKQVDKNFLKAEKQRLRAEKKQRKAEVKELKKQLKLRKIHLWNSIHGLQSPKSLGRPES  
 LLQSN TLM LPLQPCTSVMPML SAAFVDENLPD GTHLQPGTKF IKHWRMKN TG NVKWSADTKLKF MWGNLT  
 LASTEKKDVLVPCLKAGHVGVSVVEFIAPALEGTYTSHWRLSHKGQQFGPRVWCSIIIVDPFPSEESPDNI  
 EKGMISSSKTDDLTCQQEETFLLAKEERQLGEVTEQTEGTAACIPQKAKNVASERELYIPVDLLTAQDL  
 LSFELLDINIVQELERVP HNT PVDVTPCMSPLPHDSPLIEKPGLGQIEEENEGAGFKALPDSMVSVKRKA  
 ENIASVEEAEEDLSGTQFVCETVIRSLTLDAAPDHNPPCRQKSLQMTFALPEGPLGNEKEEIIHIAEEEA  
 VMEEEEDEEEDDELKDEVQSQSSASSEDI IILPECFDTSRPLGDSMYSSALSQPLERGAEGKPGV  
 EAGQEPAEAGERLPGGENQPQEHISDILTTSQTLETVPLIPEVVLPSPRSPCVHHHSGPVDLPV  
 TIPEVSSVPDQIRGEPRGSSGLVNSRQKSYDHSRHHHSSIAGGLVKGALSVAASAYKALFAGPPVTAQP  
 IISEDQTAALMARLFEMGFCDRQLNLRLLKKNYINILQVVTELLQLNNNDWYSQRY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6594\\_d08.zip](https://cdn.origene.com/chromatograms/mk6594_d08.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



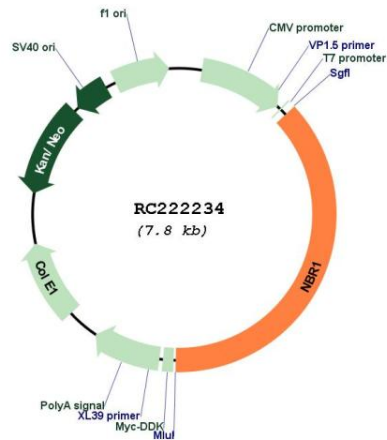
\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_031858

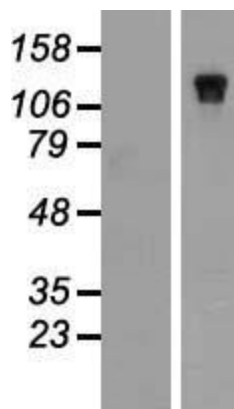
**ORF Size:** 2898 bp

<b>OTI Disclaimer:</b>	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>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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_031858.2</a>
<b>RefSeq Size:</b>	4770 bp
<b>RefSeq ORF:</b>	2900 bp
<b>Locus ID:</b>	4077
<b>Cytogenetics:</b>	17q21.31
<b>Domains:</b>	PB1, ZnF_ZZ
<b>Protein Families:</b>	Druggable Genome
<b>MW:</b>	107.2 kDa
<b>Gene Summary:</b>	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]

Product images:



Circular map for RC222234



Western blot validation of overexpression lysate (Cat# [LY410463]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC222234 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).