

Product datasheet for **RG215342**

NBR1 (NM_031862) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NBR1 (NM_031862) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NBR1
Synonyms:	1A1-3B; IA13B; M17S2; MIG19
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG215342 representing NM_031862
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAACACAGGTTACTCTAAATGTGACTTTTAAAAATGAAATTCAAAGCTTTCTGGTTTCTGATCCAG
 AAAATACAACCTGGGCTGATATCGAAGCTATGGTAAAAGTTTCATTTGATCTGAATACTATTCAAATAAA
 ATACCTGGATGAGGAAAATGAAGAGGTATCCATCAACAGTCAAGGAGAATATGAAGAAGCGCTTAAGATG
 GCAGTTAAACAGGGAAACCAACTGCAGATGCAAGTCCACGAAGGGCACCATGTCGTTGATGAAGCCCCAC
 CCCAGTTGTAGGAGCAAACGACTAGCTGCCAGGGCAGGGAAGAAGCCACTTGACATTACTCTTCACT
 GGTGAGAGTCTTGGGATCAGACATGAAGACCCAGAGGATCCTGCAGTGCAGTCGTTTCCACTTGTTC
 TGTGACACAGACCAGCCTCAAGACAAGCCCCAGACTGGTTCACAAGCTACCTGGAGACGTTTCAGAGAAC
 AAGTGGTTAACGAAACGGTTGAGAAGCTTGAACAGAAATTACATGAAAAGCTTGCCTCCAGAACCATC
 CTTGGGTTCTTGTCCCTCAGAAGTCTCAATGCCTACTTCAGAAGAAACATTGTTTTTCCAGAAAACCG
 TTCAGCTGGCATATTGCTTGCAACAACGCCAAAGAAGGATTGTTGGTGTCCGCTACCAAGTGTAGCCTAT
 GCCCATCTACAATATCTGTGAAGATTGTGAAGCAGGGCCATATGGCCATGACACTAACCAGTCTCTGCT
 GAAGTTGCGGAGACCTGTTGTGGGCTCCTCTGAACCGTTCTGCTACTCAAAGTACTCTACTCCTCGTCTT
 CCTGCTGCTCTGGAACAAGTCAGGCTCCAGAAACAGGTTGATAAGAAGTTTCTTAAAGCAGAAAAGCAAA
 GGTTGCGAGCTGAGAAGAAACAACGTAAGCAGAGGTCAAGGAACCTTAAAGCAGCTTAACTCCATAG
 GAAAATCACCTGTGGAATTCATCCATGGACTCCAGAGCCCCAAGTCTCCTTTAGGCCGACCTGAGAGC
 TTGCTCCAGTCTAATACCCTGATGCTCCCTTGCAGCCCTGACCTCCGTTATGCCAATGCTCAGTGCAG
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 GATGAAAAATACAGGAAATGTAAGTGGAGTGCAGACACAAGCTCAAGTTCATGTGGGAAACCTGACT
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 ATTTGGGCTCGGGTCTGGTGCAGTATCATAGTAGATCCTTCCCTCCGAGAGAGCCCTGATAACATT
 GAAAAGGGCATGATCAGCTCAAGCAAACCTGATGATCTCACCTGCCAGCAAGAGGAACTTTTCTTCTGG
 CTAAGAAGAAAGACAGCTTGGTGAAGTACTGAGCAGACAGAAGGGACAGCAGCCTGCATCCCACAGAA
 GGCAAAAATGTTGCCAGTGAGAGGGAGCTCTACATCCCATCTGTGGATCTTCTGACTGCCAGGACCTG
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 GAGAACATTGCTTCTGTGGAGGAAGCAGAAGAAGACCTGAGTGGGACCCAGTTTGTGTGTGAGACAGTAA
 TCCGATCCCTTACCTGGATGCTGCCCCAGACCACAACCTCCTTGCAGACAGAAGTCTTGCAGATGAC
 ATTTGCCTTGCCTGAAGGACCACTTGGAAATGAGAAGGAGGAGATTATCCATATCGCTGAGGAAGAAGCT
 GTCATGGAGGAGGAGGAGGATGAGGAGGATGAGGAGGAGGAGGATGAGCTCAAAGATGAAGTTCAAAGTC
 AGTCTCTGCTTCTCAGAGGATTACATCATCATCCTGCCTGAGTGTCTTGTATACCAGCCGCCCCCTGGG
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 GAGGCTGGGCAGGAACCAAGCTGAGGCTGGGGAAGACTCCCTGGAGGGGAGAACCAGCCACAGGACACA
 GCATAAGTGACATCCTCACGACCTCACAGACTCTGAAACAGTGCCCTAATCCCAGAGGTAGTGGAGCT
 TCCACCGTCACTGCCAGGAGCTCTCCTTGTGTACATCATCATGGTTCCCAGGAGTGGATTTACCAGTT
 ACCATACCAGAAGTTTCTCAGTCCCTGATCAGATCAGAGGAGAGCCAGAGGCTCATCAGGACTTGTA
 ACAGCAGACAGAAGACTATGACCACTCAAGGCACCATCATGGGAGCAGCATTGCTGGAGGACTGGTGA
 GGGGGCTTTGTCTGTTGCTGCTCTGCATAACAAGGCCCTGTTGCTGGGCCACCAGTCACTGCACAGCCA
 ATAATTTCTGAAGATCAGACAGCAGCCCTGATGGCCATCTCTTTGAAATGGGATTCTGTGACAGGCAGC
 TGAACTACGGCTGCTGAAGAAACAATTACAATATCCTGCAGGTTGTGACAGAAGTCTTTCAGTTAA
 CAACAACGACTGGTACAGCCAACGCTAT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG215342 representing NM_031862
Red=Cloning site Green=Tags(s)

MEPQVTLNVTFKNEIQSFLVSDPENTTWADIEAMVKVSFDLNTIQIKYLDEENEEVSINSQGEYEEALKM
 AVKQGNQLQMQRVHEGHHVVDEAPPPVVGAKRLAARAGKKPLAHYSSLVRVLGSDMKTPEDPAVQSFPLVP
 CDTDQPQDKPPDWFTSYLETFRQVYVNETVEKLEQKLHEKLVLQNP SLGSCPSEVSMPTSEETLFLPENQ
 FSWHIACNNCQRRIVGVRYQCSLCP SYNICEDCEAGPYGHD TNHVL LKLRP VVGSSEPFCHSKYSTPRL
 PAALAEQVRLQKQVDKNFLKAEKQRLRAEKKQRKAEVKELKKQLKLRKIHLWNSIHGLQSPKSP LGRPES
 LLQSN TLM LPLQPCTSVMPML SAAFVDENLPDGTHLQPGTKF IKHWRMKN TG NVKWSADTKLKF MWGNLT
 LASTEKKDVLV PCLKAGHVGVSVVEFIAPALEGTYTSHWRLSHKGQQFGPRVWCSIIIVDPFPSEESPDNI
 EKGMISSSKTDDLTCQQEETFLLAKEERQLGEVTEQTEGTAACIPQKAKNVASERELYIPVDLLTAQDL
 LSFELLDINIVQELERVP HNT PVDVTPCMSPLPHDSPLIEKPGLGQIEEENEGAGFKALPDSMVSVKRKA
 ENIASVEEAEDLSGTQFVCETVIRSLTLDAAPDHNPPCRQKSLQMTFALPEGPLGNEKEEIIHIAEEEA
 VMEEEEDEEEDDELKDEVQSQSSASSEDYIIILPECFDTSRPLGDSMYSSALSQPLERGAEGKPGV
 EAGQEPAEAGERLPGGENQPQEHISDILTTSQTLETVPLIPEVVELPPSLPRSSPCVHHHSGPGVDLPV
 TIPEVSSVPDQIRGEPRGSSGLVNSRQKSYDHSRHHHSSIAGGLVKGALSVAASAYKALFAGPPVTAQP
 IISEDQTAALMAHLFEMGFCDRQLNLRLLKKNYINILQVVTELLQLNNDWYSQRY

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:

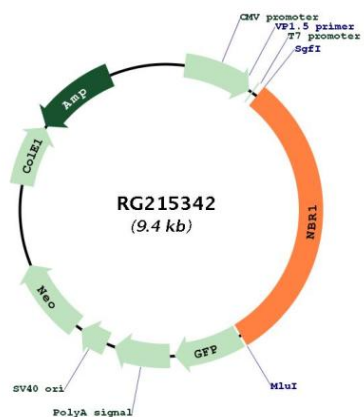


ACCN: NM_031862

ORF Size: 2898 bp

OTI Disclaimer:	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. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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:	NM_031862.4
RefSeq Size:	4654 bp
RefSeq ORF:	2901 bp
Locus ID:	4077
UniProt ID:	Q14596
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]

Product images:



Circular map for RG215342