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Product datasheet for RC239654

NBR1 (NM_001291572) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NBR1 (NM_001291572) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NBR1
Synonyms:	1A1-3B; IAI3B; M17S2; MIG19
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC239654 representing NM_001291572
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAACCACAGGTTACTCTAAATGTGACTTTTAAAAATGAAATTCAAAGCTTTCTGGTTTCTGATCCAG
AAAATACAACTTGGGCTGATATCGAAGCTATGGTATCCATCAACAGTCAAGGAGAATATGAAGAAGCGCT
TAAGATGGCAGTTAAACAGGGAAACCAACTGCAGATGCAAGTCCACGAAGGGCACCATGTCGTTGATGAA
GCCCCACCCCCAGTTGTAGGAGCAAAACGACTAGCTGCCAGGGCAGGGAAGAAGCCACTTGCACATTACT
CTTCACTGGTGAGAGTCTTGGGATCAGACATGAAGACCCCAGAGGATCCTGCAGTGCAGTCGTTTCCACT
TGTTCCATGTGACACAGACCAGCCTCAAGACAAGCCCCCAGACTGGTTCACAAGCTACCTGGAGACGTTC
AGAGAACAAGTGGTTAACGAAACGGTTGAGAAGCTTGAACAGAAATTACATGAAAAGCTTGTCCTCCAGA
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CAAAGTCAGTCCTCTGCTTCCTCAGAGGATTACATCATCATCCTGCCTGAGTGCTTTGATACCAGCCGCC
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

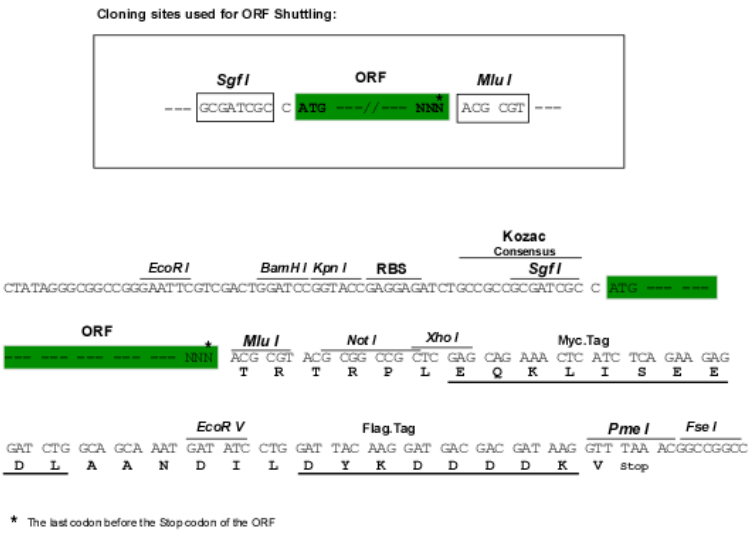
>RC239654 representing NM_001291572
Red=Cloning site Green=Tags(s)

MEPQVTLNVTFKNEIQSFLVSDPENTTWADIEAMVSINSQGEYEEALKMAVKQGNQLQMQVHEGHHVVDE
APPPVVGAKRLAARAGKKPLAHYSSLVRVLGSDMKTPEDPAVQSFPLVPCDTDQPQDKPPDWFTSYLETF
REQVVNETVEKLEQKLHEKLVLQNPSLGSCPSEVSMPTSEETLFLPENQFSWHIACNNCQRRIVGVRYQC
SLCPSYNICEDCEAGPYGHDTNHVLLKLRRPVVGSSEPFCHSKYSTPRLPAALEQVRLQKQVDKNFLKAE
KQRLRAEKKQRKAEVKELKKQLKLHRKIHLWNSIHGLQSPKSPLGRPESLLQSNTLMLPLQPCTSVMPML
SAAFVDENLPDGTHLQPGTKFIKHWRMKNTGNVKWSADTKLKFMWGNLTLASTEKKDVLVPCLKAGHVGV
VSVEFIAPALEGTYTSHWRLSHKGQQFGPRVWCSIIVDPFPSEESPDNIEKGMISSSKTDDLTCQQEETF
LLAKEERQLGEVTEQTEGTAACIPQKAKNVASERELYIPSVDLLTAQDLLSFELLDINIVQELERVPHNT
PVDVTPCMSPLPHDSPLIEKPGLGQIEEENEGAGFKALPDSMVSVKRKAENIASVEEAEEDLSGTQFVCE
TVIRSLTLDAAPDHNPPCRQKSLQMTFALPEGPLGNEKEEIIHIAEEEAVMEEEEDEEDEEEEDELKDEV
QSQSSASSEDYIIILPECFDTSRPLGDSMYSSALSQPGLERGAEGKPGVEAGQEPAEAGERLPGGENQPQ
EHSISDILTTSQTLETVPLIPEVVELPPSLPRSSPCVHHHGSPGVDLPVTIPEVSSVPDQIRGANNF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001291572

ORF Size: 2511 bp

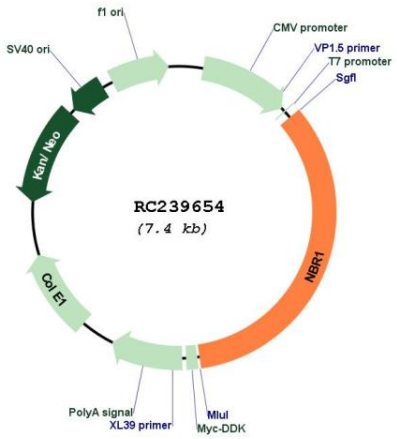
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_001291572.2
RefSeq Size:	4647 bp
RefSeq ORF:	2514 bp
Locus ID:	4077
UniProt ID:	Q14596
Cytogenetics:	17q21.31
Protein Families:	Druggable Genome
MW:	93.4 kDa
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 RC239654