

## Product datasheet for MR22517

### Nbr1 (NM\_008676) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Nbr1 (NM_008676) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nbr1
Synonyms:	mKIAA0049
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR22517 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAACCACAGGTTACTCTAAATGTGACTTTTTAAAAATGAAACTCAAAGCTTTCTGGTTTCGGATCCAG  
AAAATACAACCTGGGCTGATGTTGAAGCTATGGTAAAAGTTTCATTTGATCTGAATACTATCCAGATAAA  
ATACCTGGATGAGGAGAACGAGGAGATATCCATCAATAGTCAAGGTGAATATGAAGAAGCACTTAAGATG  
GCTAACATTAAGCAAGGAAATCAGTACAGATGCAAGTCCACGAAGGGTACCATGTTGTAGATGAAGCAC  
TCCCCAAAAATGTGGTAGAAAACCAAGCGGCTGCCAGGACAGGGAAGAAGCCACTTGCACATTATCTTC  
ACTGGTGAGAGTCTTGGGATCAGACATGAAGACCACAGAGGAGCCTGCACCAGAGCAATGTTCTTCTGCT  
CCTTGTGACACAGACCAGCCTCAAGACAAGCCCCAGATTGGTTTACAAGCTACCTGGAGATGTTCCGAG  
AACAAGTGGTTAAGGAAACGGTGGAGAACTTGAACAGAGGTTGCAGGAGAAGCTTGTCTCCAGAAGCC  
ACTCCTGAGTTCCCTACCCACAGAAGTCTCAATGCCTATTTAGAGGAAACCCCTGTTTTTCCAGAGAAC  
CAGTTCAGCTGGCATATTGCTTGTAGCCACTGCCAGAAGAGGATCGTTGGAGTGCCTACCAAGTGTAGCC  
TATGCCATCCTACAACATTTGTGAAGATTGTGAAGCTGGACCATACCCCATGACACTAACCATGTTTT  
GTTAAAGCTGCGGAGACCTGTTGTGATATCCTCTGAGCCATTTTTCTACTCCAAGTATCCGCTCCTCGT  
CTGCCCTGCTGCTTTGGAACAAGTCAGGCTCCAAAAACAGGTGGACAAGAAGCTTTGTGAAAGCAGAAAAGC  
AAAGTTGCGGGCTGAGAAGAAACAGCGGAAGGCAGAGGTCAAAGAGCTTAAAAAGCAGCTTAAACTCCA  
CAGGAAGATTCATTTATGGAATTAATCCATGGACTTCAGAGTCCCAAGTCCCCTTTGGGCCGACCTGAG  
AGCTTGTGTCAGTCTAACACCCTGATGCTTCCCTTGCAGCCCTGTGCCCCAGTTATGCCAACACTCAGTG  
CAGCATTTGTGGATGAGAATTTGCCTGATGGGACTCATCTTCAGCCAGGAACCAAGTTTATTAAACTG  
GAGGATGAAAAACACGGGAATGTGAAGTGAACACAGACACAAAGCTCAAGTTCATGTGGGAAACTTG  
ACTCTGGCTTCTACAGAGAAGAAAGATGTTTTGGTTCCCTGCTTGAAGGCTGGCCACGTTGGGGTCTGT  
CTGTGGAGTTCATCGCTCAACCTTGAGGGGACATACACTTCGACTGGCGTCTCTCACAAAGGCCA  
GCAGTTTGGCCCTCGGGTTTGGTGCAGTATCATAGTGGATCCTTTTCTTCTCTGAGAGCCCTGATAAT



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GTTGAAGGGGACAGGATCAGCTCAAGCAAAGCTGACGATTTCTCCTGTGAGCAAGAGGAAGCTTTTCTTC  
 TAGCTGAAGAAGAGATTCATTGGGTGAGGTGACAAAGCAGACAGAAGGGACAGGAGCCAGTGCCTCACA  
 GAAGACAAGACGCGCTGCCAGTGAAGGGGAGCTGTACATTCATCTGTGGACCTCCTGACTGCCAGGAC  
 CTGCTGTCTTTGAGCTGCTGGATATAAACATTGTCCAAGAATTGGAGAGAGTGCCACACAACACCCCTG  
 TGGATATGACTCCCTGCATGTCTCTCTGCCACATGACAGTCTTTAATAGAGAAGCCAGGCTTGGGGCA  
 GATACAGGAAGAGAGTGAAGGGGCGGGATTTAAAGCACCTCCTGATTCCACTGTATCAGCAAAGAGGAAA  
 GCTGAGACCCCTGCTTCGGTCAAGAAACAGAAGAAGACCTGAGTGGGACCCAATTTGTATGTGAGACTG  
 TAATTCGATCCCTTACCTTGGATGCTGCTCCAGACCACAACCCTCCTTGCAGGCAGAGGTCACACAGAG  
 GGAATTACAGCTGTATTCCACCGAGGGACAGCAGCCACTTGTGCTGCCTGGATTCTGCAGAAAGGATTCT  
 TCCTTGAATTTGCCTTGCCTGAAGAAGGACCGCTGGAGATGAGAGGGAGGAGATTGTCCACATTGTTG  
 AGGAAGAAGTCGTTGAGGAAGAGGAGGAAGTCCAAGATGAAGAAGTCCAAGTCAGTCTTCTGCTTCCTC  
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 TCTGCGCTCTCCAGCCAGGCTGGAGCGAGGGGCTGAAGCGAACCTGGGATCGAGTCTGGGCTGGAAC  
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 CACAACCTCACAGCCTCTGGACACGGTGCCTCTAGTCCCGAGGTGGCAGGACTTCCAGCAGCATTGTCC  
 AGGAGCGCCCTTGTGGACAGTGTGAGTCATCAGGAGTGGATTACCAGGAGTGGATTACCAGCTACCA  
 TGCACGAAGTTCCCCAGCCCTGATGACATCAGAGGAGAGCCCAGAGGCTCAACAGGACTCGCAAACAG  
 CAGACAGAGGAGCTGTGACCACTCAAGGCACCACAATGGGAGCAGCATTGCTGGAGGACTGGTGAAGGGG  
 GCTTTGTCTGTTGCTGCCTCTGCGTACAAGGCCCTGTTTTCTGGGCCACCAGTCACTGCACAGCCCATCG  
 TTTCTGAAGATCAGACCAGCCCTGATGGCCATCTCTTTGAAATGGGATTCTGCGACAGGCAGCTGAA  
 CCTAAGGCTGCTGAGAAAACACAATTACAATATCTTGCAGGTTGTGACAGAGCTCCTTCAAGTGAATAAC  
 AACGACTGGTACAGCCACCGCTAT

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATTAAGTTTAA

**Protein Sequence:**

>MR225517 protein sequence  
 Red=Cloning site Green=Tags(s)

MEPQVTLNVTFKNETQSFLVSDPENTTWADVEAMVKVSFDLNTIQIKYLDEENEEISINSQGEYEEALKM  
 ANIKQGNQLQMQVHEGYHVDEALPKNVVENQAAARTGKKPLAHYSSLVRLGSDMKTTEEPAPEQCSSA  
 PCDTDQPQDKPPDWFTSYLEMFREQVVKETVEKLEQRLQEKLVLQKPLLSSSPTVEVSMPISEETLFLPEN  
 QFSWHIACSHCQKRIVGVRYQCSLCPYSNICEDCEAGPYTHDTHVLLKLRPVVISSEPFYKYSAPR  
 LPAALEQVRLQKQVDKNFVKAQKQLRAEKKQRKAEVKELKKQLKLRKIHWNLSIHGLQSPKSPGRPE  
 SLLQSNTLMLPLQPCAPVMPTLSAAFVDENLPDGTHLQPGTKFIKHWRMKNNGNVKWNDDTKLKFMMWNL  
 TLASTEKKDVLVPCLKAGHVGVSVEFIAPTLEGTYSHWRLSHKGOQFGPRVWCSIIVDPFPPSESPDN  
 VEGDRISSSKADDFSCQEAEFLAEEEEIPLGEVTKQTEGTGASASQKTRRAASERELYIPVDLLTAQD  
 LLSFELLDINIVQELERVPHTNPVDMTPCMSPLPHDSPLIEKPGLGQIQEESEGAGFKAPPDSTVSAKRK  
 AETPASVEETEEDLSGTQFVCEVIRSLTLDAAPDHNPPCRQRSPQRELQLYSTEQQPLVLPGFGRKDS  
 SLKFALPEEGPRDEREEIVHIVVEEEVVEEEVQDEEVQSQSSASEDYIILPECFDTSRPLGDSMYS  
 SALSQPLERGAEGEPGIESGLEPTEARERLPERESQPQEQSISDILTTSQPLDTVPLVPEVAGLPAALS  
 RSAPCGQCESSGVDSPGVDSPATMHEVPPAPDDIRGEPGSGTGLANSRQRSCDHSRHNGSSIAGGLVKG  
 ALSVAASAYKALFSGPPVTAQPIVSEDQTTALMAHLFEMGFCDRQLNLRLLRKHNYNILQVVTELLQVNN  
 NDWYSHRY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



ACCN: NM\_008676

ORF Size: 2967 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).

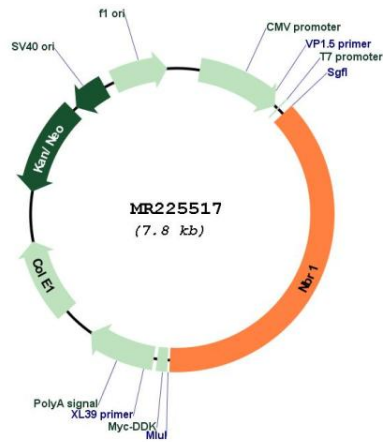
- Reconstitution Method:
1. Centrifuge at 5,000xg for 5min.
  2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
  3. Close the tube and incubate for 10 minutes at room temperature.
  4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the 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.

RefSeq: [NM\\_008676.3](#), [NP\\_032702.1](#)

RefSeq Size: 4682 bp

RefSeq ORF: 2967 bp  
 Locus ID: 17966  
 UniProt ID: [P97432](#)  
 Cytogenetics: 11 65.36 cM  
 MW: 110 kDa  
 Gene Summary: Acts probably as a receptor for selective autophagosomal degradation of ubiquitinated targets.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR225517