

Product datasheet for **MC218404**

Ddi2 (BC031491) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ddi2 (BC031491) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ddi2
Synonyms:	1110056G13Rik; 1700027M01Rik; 9130022E05Rik; AI604911; AU040698
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >BC031491
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGTCATCATTGCCGACTTCAGATGGGTTTGACCATCCAGCTCCTTCAGGGCAGAGTCTGAGGTTGGTA
 GCCCGACGAGTCTCGCTCGCTCTGTTTCTGCTTCCGTCTGCGCCATCAAGCCCGGTGACCCAATAGCAT
 TGAATCTCTAGCTATGGAGGCTACGAAGCTTCAGCTGAATTCAGACAAACTCTAAGAAAAACAGACCTT
 CCTCCTCTGCAGGTTCTTCTGACCTTGCTTCTCAGCAGAGCAGAGTCTAGCCATGCCTTTCCATAAGT
 CATCAAAAGAAGCCGTTGTTGCAGGTAATCTGGAGAAATCTGTTGAGAAAGGAACCCAGGGCCTCAGAGT
 GTATCTCCACACAAGACAGGACGCTAGTTAACTCTCACAACACTGGGATGCGGGAGCCACAGATATTT
 GCGGAGGAAAAGAGTTGGCATCCAGAAAATCAGACCCCAAGTCCCGTGAACGGCCTTCAGCAGCACAGAG
 AAACAGGGAGTGTACAGCGAGAGGCTGGACAGCAGAGTGTCCACAGGACCAGGGCTGTCTTTGTGACGC
 AGAAGACCTTGAGCTTCATGAAGAAGTTGTGAGTTTGAAGCTCTGAGGAAAGGTGAGCTACAAAGACAC
 GCTCATCTTCCCAGTGCAGAGAAGGGTCTTCCAGCTTCAGGACTCTGTAGCTGTCCATGCTCAGAAGCCC
 TGATGGAAGTAGATACAGCTGAACAGTCTCTGGTTGCTATGTGCAGCTCAACAGGCAGGCAGGATGCCGT
 CATCAAGAGCCCTAGTGTAGCACATCTCGCTTCAGATAATCCCCTATGGAAGTGGAGACATTACAGTCT
 AACCCGTCCTGTGAGCCTGTGGAACATTCATCTTGACTCGGGAATTGCAGCTCCAGAAGATAATGTTG
 ACATGTCTACAATGGATAACAAAGATGACAATTCCTCTTCCCTTCTAAGTGGCCACGGTCAGCCCTCTGT
 GGAATCAGCAGAAGAATTTGTTTCATCTGTCACAGTGGCCTTGAAAGAACTCCATGAGCTTTTGGTCATT
 AGCTGTAAGCCAGCTTCAGAAGAGTACCTGAGCATGTTACCTGTCAGTCAGAGATAGGAGCTGAGAGCC
 AACCAAGTGTTCAGACCTTTCAGGAAGAAGGGTCCAAAGTGTGCAATTTGACCCCTAGTGACCACTC
 ACAAGGCTCCTGTCAACAGGCCACCTCTGAATCAGGAAAAGACAGAAATCGTAGGAACTGCCCTTGTGCT
 GCGGTAGAAGATGAAGCATCCACTAGCTTTGAAGGTCTGGGTGATGGCTTGTACCTGACCGAGAAGATG
 TCCGCAGATCAACAGAGTCAAGCAGGAAGAGCTGTTCTGTGCGCCATAACCTCAGCTAAACTGTCTGAGCA
 GTTGCCCTGCACCTCAGGGGTAGAAATAGCACCTGAACTTGCAGCAAGTGAAGGTGCCACAGTCAGCCT
 TCAGAGCATGTGCATAATCCAGGCCCAGACAGGCCGGAGACCAGCAGTGTCTGCCCTGGAGCTGGGTTGC
 CCCGTAGTGGATTGGACCAACCTCCACACAGTCTTGTCCACCCCTCCGTTCTCCACCGTTCATCTT
 TCCTGCTGCAGATGTTGACAGGATCTTGGTGCCGGCTTCACTCTGCAGGAAGCGCTCGGGGCTCTGCAT
 CGAGTTGGTGGGAATGCAGACCTTGCCCTTCTGTTTTGTAGCAAAGAACATTGTAGTCCCAACATAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: BC031491

Insert Size: 1146 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:

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: [BC031491](#)

RefSeq Size: 2307 bp

RefSeq ORF: 1748 bp

Locus ID: 68817

Cytogenetics: 4 E1

Gene Summary: Aspartic protease that mediates the cleavage of NFE2L1/NRF1 at 'Leu-104', thereby promoting release of NFE2L1/NRF1 from the endoplasmic reticulum membrane. Ubiquitination of NFE2L1/NRF1 is a prerequisite for cleavage, suggesting that DDI2 specifically recognizes and binds ubiquitinated NFE2L1/NRF1. Seems to act as a proteasomal shuttle which links the proteasome and replication fork proteins like RTF2. Required, with DDI1, for cellular survival following replication stress. Together or redudantly with DDI1, removes RTF2 from stalled forks to allow cell cycle progression after replication stress and maintains genome integrity. [UniProtKB/Swiss-Prot Function]