

Product datasheet for MC210796

Ddi2 (NM_001017966) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ddi2 (NM_001017966) 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
Fully Sequenced ORF: >MC210796 representing NM_001017966
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCTGCTCACCGTGTACTGTGTGCGGAGGGACCTCTCCGAGGTGACCTTTCCCTCCAGGTCGACGCCG
 ACTTCGAGCTGCACAACCTCCGCGCGCTGTGCGAGCTCGAGTCCGGCATCCCCGCCGCGAGAGCCAGAT
 TGTCTATGCAGAAAGGCCTCTCACCGACAACCACAGGTCAGTGGCTTCTTACGGTTTAAAAGATGGTGAT
 GTTGTGATTCTACGACAGAAGGAGAATGCAGACCCCTCGCCCTGCAGTGCAGTTCTCAAACCTACCCCGGA
 TTGACTTCAGTAGCATAGCTGTGCTGGCAGCTCAAACCCCAACAGCGCCAGCTGCCAGAACCCAGGC
 TCAGCACTCATCTCCTGGGGAAATGGCATCTTCTCCTCAAGGCCTAGACAACCCAGCCCTGCTCCGAGAC
 ATGCTGCTGGCAACCCGCATGAGTTGTCTTGTGAAGGAGCGCAACCCACCCTTGGCGGAAGCTCTGC
 TCAGTGGAGATCTTGAGAAATCTCTAGGGTCTTGGTGGAGCAGCAGCAGGACCGAGCCCGGAGAGAACA
 AGAACGGATTCGTCTGTTTTCTGCTGACCCCTTGATCTCGAAGCTCAGGCAAAGATAGAAGAAGATATA
 AGGCAGCAGAACATCGAGGAGAACATGACGATAGCTATGGAGGAGCCCGGAGAGCTTCGGCCAGGTCCG
 CCATGCTGTACATCAACTGCAGAGTGAACGGGCATCCTGTGAAAGCCTTTGTGCACTCAGGAGCCAGAT
 GACTATTATGAGCCAGGCCTGTGCAGAAAGGTGTAAACATAATGAGACTGGTAGATCGTCGGTGGCTGGC
 ATTGCCAAAGGAGTAGGCACACAGAAGATTATTGGAAGGGTGCATCTAGCTCAGGTTTCAAGATTGAAGCG
 ATTTTCTGGCGTCTCTTCTCAATTCTGGAAGAACAGCCTATGGACATGCTTCTGGGTCTGGACATGCT
 GAAACGGCACCAGTGTCTATTGACTTGAAGAAAAATGTTCTGGTGATTGGCACCACGGGCTCACAGACC
 ACCTTCTTCTGAGGGGAGTTACCAGAGTGTGCTCGTTTGGCATATGGAACCGGGCGAGAGGACATAC
 GGCCAGAGGAAATGCAGACCAAGAATTAGCAGAAGCCATTCAAAAATCAGCCGAGGATGCAGAGCGTCA
 GAAGCCATGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Restriction Sites:	Sgfl-Mlul
ACCN:	NM_001017966
Insert Size:	1200 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:	<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:	<u>NM_001017966.2</u> , <u>NP_001017966.1</u>
RefSeq Size:	3539 bp
RefSeq ORF:	1200 bp
Locus ID:	68817
UniProt ID:	<u>A2ADY9</u>
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]