

Product datasheet for **RN205039**

Ddi1 (NM_001085475) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ddi1 (NM_001085475) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Ddi1
Synonyms:	RGD1559430
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN205039 representing NM_001085475 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**C

ATGCTGATCACTGTTTATTGTGTGCGTAGGGACCTCACAGAGTAACCTTTTCCTTACAGGTCAACCCTG
 ACTTTGAGCTCTCAAACTTCAGAGTCTCTGTGAGCTTGAATCTGGTGTGCCTGCGGAGGAGGCCAGAT
 CGTCTACATGGAGCAGCTCCTCACAGATGACCACTGCTCTCTGGGCTCCTATGGACTCAAAGATGGTGAT
 ATGGTTGTAATACTTCAAGGATAATGTGGGACCTCGGCCTCCAGGAAGGGCTCCGAACCATCCTCGAA
 CAGATTTCACTGGGTCTGGGTGCGCTGTGCTGGAACATCAAGTTCGCGACACCCACATCCGCATCAACA
 CCATCATCACCAACATCAACGTATACCATCAACACAGCAAGCCCACGGATTGGCTTCTGGAGAGAATATG
 GCTTTTGCTCAGGATCTCAACAGCCCTGCCCTGATTCTGAAGCATGCTGCTTTCCAACCCCATGACCTGT
 CCCTGTTGAAGGAACGGAATCCTGCTTTGGCGGAAGCTCTGCTTAGTGGAAACCTCGAGACATTTTCTCA
 GGTCTGTTGGAACAGCAGAGAGAAAGGCCATGAGAGAGCAAGAGATGTTTCGTCTTTATTCTGCTGAC
 CCATTTGATCAGGAGACACAGGCTAGAATAGAAGAAGAAATCCGACAGCAGAATATTGAAGAAAATATGA
 ATATAGCCATGGAAGAGGCTCCGAGAGTTTTGGACAAGTGGCTATGCTCTATATTAAGTCAAAAGTGAA
 CGGGCATCCTTTAAAGGCTTTTGTGACTCAGGTGCCAGATGACTATCATGAGCCAAGCTTGTGCTGAG
 AGATGTAATATCATGAGACTGGTAGACCGACGGTGGGCTGGGTTGCTAAGGGAGTAGGCACACAGAGGA
 TTATGGGCCGCGTTCATCTGGCTCAGATTCAGATTGAAGGTGATTCTTACAGTGCTCTTTCTCTATACT
 TGAAGAGCAGCCCATGGATATCCTTCTAGGGCTTGATATGCTCAGGAGGCACCAAGTGTTCATTGACCTA
 AAGAAAACGTGCTGTTATTGGCACTACAGGATCACAGACTCACTTCCTTCCGAAGGAGAGTTGCCCT
 TGTGTGCTAAGCTGCTGAGTGGAGCAGTGCAGGAAGACTCTTCAGACAAGGAAGTGGCAGGTAGTATCAA
 ACATCCTGTCAAGGGTCCAGGACGGAAGCAAT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


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Restriction Sites:	Sgfl-Mlul
ACCN:	NM_001085475
Insert Size:	1227 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:	<u>NM_001085475.1, NP_001078944.1</u>
RefSeq Size:	1877 bp
RefSeq ORF:	1227 bp
Locus ID:	367012
UniProt ID:	<u>A0JPP7</u>
Cytogenetics:	8q11
Gene Summary:	Probable aspartic protease (By similarity). Seems to act as a proteasomal shuttle which links the proteasome and replication fork proteins like RTF2. Required, with DDI2, for cellular survival following replication stress. Together or redudantly with DDI2, removes RTF2 from stalled forks to allow cell cycle progression after replication stress and maintains genome integrity (By similarity).[UniProtKB/Swiss-Prot Function]