

Product datasheet for **SC300294**

DDI1 (NM_001001711) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DDI1 (NM_001001711) Human Untagged Clone
Tag:	Tag Free
Symbol:	DDI1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC300294 representing NM_001001711. Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGTCGACTG
 GATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**
 ATGCTGATCACCGTGTACTGCGTGCGGAGGGACCTCTCCGAGGTCACCTTCTCTCCAGGTCAGCCCC
 GACTTTGAGCTCCGAACTTCAAGGTCCTCTGCGAAGCGGAGTCCAGAGTCCCCGTCGAAGAGATCCAG
 ATCATCCACATGGAGCGACTCCTCATCGAGGACCACTGTTCCCTGGGCTCCTACGGCCTCAAAGATGGC
 GATATCGTGGTTTTACTGCAGAAGGACAATGTGGGACCTCGGGCTCCAGGGCGTGCCCCGAACGACCT
 CGTGTAAGACTTCAGTGGCATTGCGGTGCCTGGGACGTCCAGCTCCCGTCCACAGCACCCCTGGACAGCAG
 CAGCAGCGCACACCCGCTGCCAGCGGTACAGGGCTTGGCGTCAGGAGAGAAGGTGGCCGGCCTGCAA
 GGTCTGGGCAGCCCCGCCCTGATCCGCAGCATGCTGCTCTCCAACCCCCACGATCTGTCCCTGCTCAAG
 GAACGCAACCCCTCCCTTGCGGGAAGCCCTGCTCAGCGGAAGCCTTGAGACCTTTTCTCAGGTGCTGATG
 GAGCAGCAAAGGAAAAGGCCTTGAGAGAGCAAGAGAGGCTTCGTCTCTACACAGCCGACCCACTGGAT
 CGGGAAGCTCAGGCCAAAATAGAAGAGGAAATCCGGCAGCAAAACATTGAAGAAAACATGAATATAGCG
 ATAGAAGAGGCCCCCGAGAGTTTTGGACAAGTGACGATGCTCTACATTAAGTCAAAGTGAATGGGCAT
 CCTTTGAAGCCTTTTGTGACTCGGGCGCCAGATGACCATTATGAGCCAGGCTTGTGCCGAGCGATGT
 AACATCATGAGGCTGGTGGACCGACGGTGGGCTGGGTTGCTAAAGGAGTGGGCACACAGAGAATTATT
 GGCCGTGTTTCATCTAGCTCAGATTCAAATTGAAGGTGATTCTTACAGTGCTCTTTCTCCATACTTGAG
 GATCAACCATGGATATGCTTCTAGGCCTAGATATGCTCCGAGACATCAATGTTCCATCGATTTGAAG
 AAAAATGTGCTGGTCATCGGCACCACTGGCAGCAGACTTATTTCTTCTGAGGAGAGTTGCCCTTA
 TGCTCTAGGATGGTAAGTGGGAAGATGAGTCTTCGGACAAGGAAATTACACATTCAGTCATGGATTCA
 GGACGAAAAGAGCAT**TAA**
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
 TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites:	SgfI-MluI
ACCN:	NM_001001711


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Insert Size:	1191 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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_001001711.2</u>
RefSeq Size:	2615 bp
RefSeq ORF:	1191 bp
Locus ID:	414301
UniProt ID:	<u>Q8WTU0</u>
Cytogenetics:	11q22.3
MW:	44.1 kDa
Gene Summary:	Probable aspartic protease (Probable). Seems to act as a proteasomal shuttle which links the proteasome and replication fork proteins like RTF2 (Probable). 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 (PubMed:29290612).[UniProtKB/Swiss-Prot Function]