

Product datasheet for **SC123567**

DDI1 (BC022017) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DDI1 (BC022017) Human Untagged Clone
Tag:	Tag Free
Symbol:	DDI1
Synonyms:	DDI1, DNA-damage inducible 1, homolog 1; DDI1, DNA-damage inducible 1, homolog 1 (S. cerevisiae); DNA-damage inducible protein 1; FLJ36017
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

>OriGene sequence for BC022017 edited

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AAGGCTCCACCTGGCCACACAGCAGGCACTGAGGCTGGGAGACAGCCCCAGACAGATGA
GTGTCCGCGCCTCTCTGAGAGGTGAATGAGCCCGACGGTCCCTACCTACCAAGTCTCTGA
GGAGCAGCGGCACCAACGACGACAGGCCCCGCCAGCCCGCAGTGAGCCGCCATGCCCT
CTGCTAGCCCGGCCCGCCGGCCCCGCCATGCTGATCACCGTGTAAGTGGCGGAGG
GACCTCTCCGAGGTCACCTTCTCTCTCCAGGTCAGCCCCGACTTTGAGCTCCGAACTTC
AAGGTCCCTCTGCGAAGCGGAGTCCAGAGTCCCCGTCGAAGAGATCCAGATCATCCACATG
GAGCGACTCCTCATCGAGGACCACTGTTCCCTGGGCTCCTACGGCCTCAAAGATGGCGAT
ATCGTGGTTTTACTGCAGAAGGACAATGTGGGACCTCGGGCTCCAGGGCGTGCCCGAAC
CAGCCTCGTGTAGACTTCAGTGGCATTGCGGTGCTGGGACGTCCAGTCCCGTCCACAG
CACCTGGACAGCAGCAGCAGCGCACACCCGCTGCCAGCGGTACAGGGCTTGGCGTCA
GGAGAGAAGGTGGCCGGCTGCAAGGTCTGGGACGCCCGCCCTGATCCGAGCATGCTG
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CAGGCCAAAATAGAAGAGGAAATCCGGCAGCAAAACATTGAAGAAAACATGAATATAGCG
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GCTTGTGCCGAGCGATGTAACATCATGAGGCTGGTGGACCGACGGTGGGCTGGGTTGCT
AAAGGAGTGGGCACACAGAGAATTATTGGCCGTGTTTCTAGCTCAGATTCAAATTGAA
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GGCCTAGATATGCTCCGGAGACATCAATGTTCCATCGATTGAAGAAAAATGTGCTGGTC
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AGGATGGTAAGTGGGCAAGATGAGTCTTCGGACAAGGAAATTACACATTAGTCATGGAT
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GGTCCCCGGCAATTATAAGTTAAGAGCTTACTGGCAATGTAATCATTAAAAAACATCAGT
AACAACTAAACCTGGCCTTGGGACTACGTTCTCAGATGGGTAACAAAGTCAATCCTGAT
TCCTTGGTCTTGGTCCCTCTCCATTTCCCTTGCCAGAGATCACTGAAAGGCATCCTGG
GAAGGCTTTGGAGGCTCCAGCTGATTTCCAGATAATCCATGAAAAAGAAAACAGCTTCT
TCCTTTAGAGACACTATCCTATCAGATTACAGGTGGCTTATCAAATCATTGCTATTTTG
CAGAATTCCTTGAAAAATGCTATGGCTGCAGACCTTACAAGGCATCCACATAAACTAT
TTCACATCAGCACTAATAATTCTTTCTACTGAGAGAAATATGCCATTTTACAGGTTTT
GTTTTCTTTGGGAAGGTATTAGAAATGGTAGGTCAGTTACACTATGATGTAACTAATA
CTTATACATGTCTGTTTGGGGCAGCATAAAGACCAATTTCTCATATTTACACCTTCCCT
TCCCCTGGATCCCCTGCAGTCACCCTGCAATCCACAGTAAAGACTATTTTGGCATATT
TGAGAAAGTGGATTTATCTCAAGGATGCTACATTAATTTTCTATTTCTCCTGCATTCAA
AGAAACTCTGGCTATAAAACAAAGGCAATAAATTAGATTTTTTAAAAAAGAAAAA
AAAAA

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5' Read Nucleotide Sequence:	>OriGene 5' read for BC022017 unedited <pre> CTTGGTTTTGTAATACGACGTCTGATAGCGGCCGCATAACTTCGTATAGGATACATTAT ATTTTGTATGGATCAGGCCAAATCGGCCGAGCTCGAATTCGTGAGAGCGGAAGGCTCC ACCTGGCCACACAGCAGGCACTGAGGCTGGGAGACAGCCCCAGACAGATGAGTGCCGC GCCATTCTGAGAGGTGAATGAGCCCGACGGTCCCTACCTACCAAGTCTGAGGAGCAGC GGCACCACGACGCATGCCCGCCCCAGCCCGCCAGTGAGCCGCCCATGCCCTCTGCTAGC CCGGCCCGCCCGGGCCCCCGCCATGCTGATCACCGTGTACTGCGTGCGGAGGGACCTCTC CGAGGTCACCTTCTCTCTCCAGGTCAGCCCCGACTTTGAGCTCCGAACTTCAAGGTCCT CTGCGAAGCGGAGTCCAGAGTCCCCGTCAAGAGATCCAGATCATCCACATGGAGCGACT CCTCATCGAGGACCACTGTTCCCTGAGCTCCTACGGCCTCAAAGATGGCGATATCGTGGT TTTACTGCAGAAGGACAATGTGGGACCTCGGGCTCCAGGGCGTGCCCGAACCAGCCTCG TGTAAGTTTCACTGGCATTGCGGTGCCTGGGACGTCCAGTCCCGTCCACAGCACCTGG ACAGCAGCAGCAGCGCACACCCGCTGCCAGCGGTACAGGGCTTGGCGTCAGGAGAGAA TGTGGCCCGCCTGCAAAGTCTGGGACGCCCGCCCTGATCCGCANCATGCTGCTCNCAC CCCCACGATCTGTCCTGCTCAGGGACGCACCCNTCCCTGGNCGNAGCCCTGCTCANCAG AAGCTTGAGACCTTTCTCAGTGCTGATGGACANCAAAGGAAATGCCTTGANAGAGCAGA GAGGCTCGTCTCTCACAGCCGACCCACTGGTCGG </pre>
Restriction Sites:	Please inquire
ACCN:	BC022017
Insert Size:	2171 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:	BC022017.2 , AAH22017.1
RefSeq Size:	2166 bp
Locus ID:	414301
Cytogenetics:	11q22.3
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]