

Product datasheet for **SC313304**

DDI2 (NM_032341) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DDI2 (NM_032341) Human Untagged Clone
Tag:	Tag Free
Symbol:	DDI2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	<p>>OriGene ORF sequence for NM_032341 edited</p> <pre> ATGCTGCTCACCGTGTACTGTGTGCGGAGGGACCTCTCCGAGGTGACCTTTTCCCTCCAG GTCGACGCCGACTTCGAGCTGCACAACCTCCGCGCGCTGTGCGAGCTCGAGTCTGGCATC CCCGCAGCCGAGAGCCAGATCGTCTATGCGGAAAGACCTCTCACAGACAACCACAGATCA TTGGCTTCTTATGGCTTAAAGATGGGGACGTTGTGATTTTACGACAGAAGGAGAATGCA GACCTCGACCTCCAGTGCAGTCCCAAACCTACCCCGAATAGATTTTCACTAGTATAGCT GTGCTGGCACATCAAGTCCCGGCAGCGCCAGCCACCAGGAACACAGCAGTCCCACTCA TCTCCTGGAGAAATAACTTCATCTCCTCAGGGCTTGGACAATCCAGCCTTGCTCCGAGAT ATGTTGCTGGCCAACCCGCATGAGCTGTCCTTGTGAAGGAACGCAATCCACCCCTGGCA GAAGCTGCTCAGTGGAGACCTTGAGAAATTTCTAGAGTCTGGTGGAGCAGCAGCAG GACCGAGCCCGGAGAGAGCAAGAAGGATTCGTCTGTTTTCTGCTGATCCCTTTGACCTT GAAGCTCAGGCAAAGATAGAAGAAGATATAAGGCAACAGAACATTGAGGAAAACATGACA ATAGCTATGGAAGAGGCTCCGAAAAGTTTTGGCCAAGTAGTGATGCTTTATATTAAGTGC AAAGTGAATGGACATCCTGTGAAAGCCTTTGTTGACTCAGGTGCCCAGATGACTATCATG AGCCAAGCTTGTGCAGAAAGGTGTAACATAATGAGACTGGTGGACCGTCGGTGGGAGGG ATTGCCAAAGGAGTGGGCACCCAGAAGATTATTGGAAGGGTACATCTAGCTCAGGTTTCA ATTGAAGGAGATTTTTTCCATGTTCTTCTCTATACTGAGGAACAGCCCATGGACATG CTTCTGGGACTGGACATGCTTAAACGGCACCCAGTGTCCATCGACCTGAAGAAAAATGTA CTCGTGATCGGCACCACAGGCTCCAGACCACCTTTCTTCTGAGGGAGAGCTACCAGAG TGTGCCCGGTTGGCATATGGGGCTGGAAGAGAGGATGTACGGCTAGAGGAGATTGCAGAC CAAGAATTAGCAGAAGCCCTTCAAAAATCAGCAGAGGATGCAGAGCGTCAGAAGCCATGA </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_032341
Insert Size:	6000 bp



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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:	The open reading frame of this clone has been fully sequenced and found one SNP within the protein associated with this reference, NM_032341.3.
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_032341.3</u> , <u>NP_115717.3</u>
RefSeq Size:	1759 bp
RefSeq ORF:	1200 bp
Locus ID:	84301
UniProt ID:	<u>Q5TDH0</u>
Cytogenetics:	1p36.21
Protein Families:	Druggable Genome
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 (PubMed:27676298, PubMed:27528193). Ubiquitination of NFE2L1/NRF1 is a prerequisite for cleavage, suggesting that DDI2 specifically recognizes and binds ubiquitinated NFE2L1/NRF1 (PubMed:27528193). Seems to act as a proteasomal shuttle which links the proteasome and replication fork proteins like RTF2 (Probable). 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 (PubMed:29290612). [UniProtKB/Swiss-Prot Function]