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Product datasheet for RG205403

DDI1 (NM_001001711) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	DDI1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG205403 representing NM_001001711
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCTGATCACCGTGTACTGCGTGCGGAGGGACCTCTCCGAGGTCACCTTCTCTCTCCAGGTCAGCCCCG
ACTTTGAGCTCCGAAACTTCAAGGTCCTCTGCGAAGCGGAGTCCAGAGTCCCCGTCGAAGAGATCCAGAT
CATCCACATGGAGCGACTCCTCATCGAGGACCACTGTTCCCTGGGCTCCTACGGCCTCAAAGATGGCGAT
ATCGTGGTTTTACTGCAGAAGGACAATGTGGGACCTCGGGCTCCAGGGCGTGCCCCGAACCAGCCTCGTG
TAGACTTCAGTGGCATTGCGGTGCCTGGGACGTCCAGCTCCCGTCCACAGCACCCTGGACAGCAGCAGCA
GCGCACACCCGCTGCCCAGCGGTCACAGGGCTTGGCGTCAGGAGAGAAGGTGGCCGGCCTGCAAGGTCTG
GGCAGCCCCGCCCTGATCCGCAGCATGCTGCTCTCCAACCCCCACGATCTGTCCCTGCTCAAGGAACGCA
ACCCTCCCTTGGCGGAAGCCCTGCTCAGCGGAAGCCTTGAGACCTTTTCTCAGGTGCTGATGGAGCAGCA
AAGGGAAAAGGCCTTGAGAGAGCAAGAGAGGCTTCGTCTCTACACAGCCGACCCACTGGATCGGGAAGCT
CAGGCCAAAATAGAAGAGGAAATCCGGCAGCAAAACATTGAAGAAAACATGAATATAGCGATAGAAGAGG
CCCCCGAGAGTTTTGGACAAGTGACGATGCTCTACATTAACTGCAAAGTGAATGGGCATCCTTTGAAGGC
TTTTGTTGACTCGGGCGCCCAGATGACCATTATGAGCCAGGCTTGTGCCGAGCGATGTAACATCATGAGG
CTGGTGGACCGACGGTGGGCTGGGGTTGCTAAAGGAGTGGGCACACAGAGAATTATTGGCCGTGTTCATC
TAGCTCAGATTCAAATTGAAGGTGATTTCTTACAGTGCTCTTTCTCCATACTTGAGGATCAACCCATGGA
TATGCTTCTAGGCCTAGATATGCTCCGGAGACATCAATGTTCCATCGATTTGAAGAAAAATGTGCTGGTC
ATCGGCACCACTGGCACGCAGACTTATTTTCTTCCTGAGGGAGAGTTGCCCTTATGCTCTAGGATGGTAA
GTGGGCAAGATGAGTCTTCGGACAAGGAAATTACACATTCAGTCATGGATTCAGGACGAAAAGAACAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

View online »

Protein Sequence:

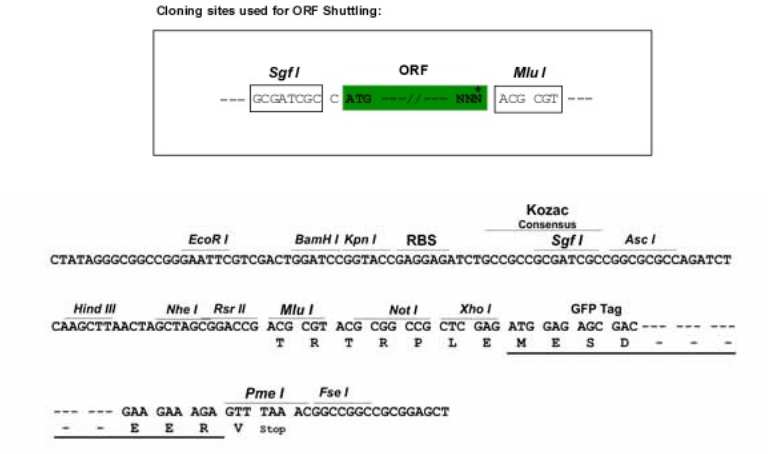
>RG205403 representing NM_001001711
Red=Cloning site Green=Tags(s)

MLITVYCVRRDLSEVTFSLQVSPDFELRNFKVLCEAESRVPVEEIQIIHMERLLIEDHCSLGSYGLKDGD
IVVLLQKDNVGPRAPGRAPNQPRVDFSGIAVPGTSSSRPQHPGQQQQRTPAAQRSQGLASGEKVAGLQGL
GSPALIRSMLLSNPHDLSLLKERNPPLAEALLSGSLETFSQVLMEQQREKALREQERLRLYTADPLDREA
QAKIEEEIRQQNIEENMNIAIEEAPESFGQVTMLYINCKVNGHPLKAFVDSGAQMTIMSQACAERCNIMR
LVDRRWAGVAKGVGTQRIIGRVHLAQIQIEGDFLQCSFSILEDQPMDMLLGLDMLRRHQCSIDLKKNVLV
IGTTGTQTYFLPEGELPLCSRMVSGQDESSDKEITHSVMDSGRKEH

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001001711

ORF Size: 1188 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM_001001711.1, NP_001001711.1

RefSeq Size: 2589 bp

RefSeq ORF: 1191 bp

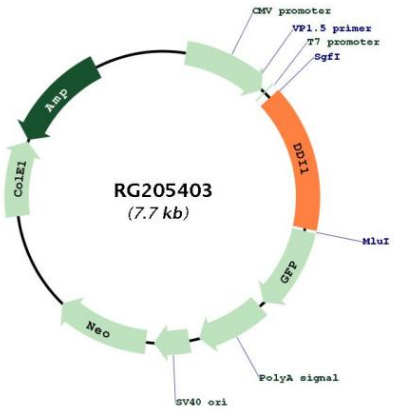
Locus ID: 414301

UniProt ID: Q8WTU0

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]

Product images:



Circular map for RG205403