

HUS1 cDNA

Catalog Number: ATGD0082

PRODUCT INFORMATION

Catalog number

ATGD0082

Product type

cDNA

Species

Human

NCBI Accession No.

NP_004498.1

Alternative Names

hHUS1

mRNA Refseq

NM_004507.3

OMIM

603760

Chromosome location

7p13-p12

PRODUCT SPECIFICATION

Formulation

Lyophilized

Storage

Store the plasmid at -20C.

cDNA Size

843bp

Preparation before usage

1. Centrifuge at 7000rpm for 1 minute.
 2. Carefully open the vial and add 100ul of sterile water to dissolve the DNA.
- Each tube contains approximately 10ug of lyophilized plasmid.

Vector description

This shuttle vector contains the complete ORF. It is inseted BamH I to EcoR I. The gene insert contains multiple cloning sites which can be used to easily cut and transfer the gene and recombination site into your expression vector.

Cloning Vector

pATGen (puc19-derived cloning vector)

General Description

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HuS1 is a component of an evolutionarily conserved, genotoxin-activated checkpoint complex. This protein associates with Rad9 and Rad1 to form the 9-1-1 (RAD9-RAD1-HuS1) complex, which localizes to DNA lesions and promotes DNA damage signaling and repair or apoptosis, cell cycle arrest. The trimeric complex is structurally similar to the proliferating cell nuclear antigen (PCNA) sliding clamp and interacts with Rad17 as a clamp-clamp loader pair during the DNA damage response

DATA

Sequence nucleotides

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ATGAAGTTTC GGGCCAAGAT CGTGGACGGG GCCTGTCTGA ACCACTTCAC ACGAATCAGT AACATGATAG
CCAAGCTTGC CAAAACCTGC ACCCTCCGCA TCAGCCCTGA TAAGCTTAAC TTCATCCTTT GTGACAAGCT
GGCTAATGGA GGAGTGAGCA TGTGGTGTGA GCTGGAACAG GAGAACTTCT TCAACGAATT TCAAATGGAG
GGTGTCTCTG CAGAAAACAA TGAGATTTAT TTAGAGCTAA CATCGGAAAA CTTATCTCGA GCCTTGAAGA
CTGCCCAGAA TGCCAGGGCT TTGAAAATCA AACTGACTAA TAAACACTTT CCCTGCCTCA CGGTCTCCGT
GGAGCTGTTA TCTATGTCAA GCAGTAGCCG CATTGTGACC CATGACATCC CCATAAAGGT GATTCCTAGG
AAATTGTGGA AGGACTTACA AGAACCGGTG GTCCAGATC CTGATGTTAG TATTTATTTA CCAGTCTTGA
AGACTATGAA GAGTGTTGTG GAAAAAATGA AAAACATCAG CAATCACCTT GTTATTGAAG CAAACCTAGA
TGGAGAATTG AATTTGAAAA TAGAACTGA ATTAGTATGT GTTACAACCT ATTTTAAAGA TCTTGGAAT CCTCCATTAG
CCTCTGAAAG CACCCATGAG GACAGAAACG TGGAACACAT GGCTGAAGTG CACATAGATA TTAGGAAGCT
CCTACAGTTT CTTGCTGGAC AACAAAGTAA TCCCACAAAG GCCTTATGCA ATATTGTGAA TAACAAGATG
GTGCATTTTG ATCTGCTTCA TGAAGACGTG TCCCTTCAGT ATTCATCCC TGCCTGTCC TAG
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Transaction Sequence

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MKFRKIVDG ACLNHFTRIS NMIKLAKTCLRLSPDKLN FILCDKLANG GVSMWCELEQ ENFFNEFQME GVSAENNEIY
LELTSENLSR ALKTAQNARA LKIKLTNKHFPCLTVSVELL SMSSSSRIVT HDIPIKVIPR KLWKDLQEPV VPDPDVSIL
PVLKTMKSVV EKMKNISNHL VIEANLDGEL NLKIETELVC VTTHFKDLGN PPLASESTHE DRNVEHMAEV HIDIRKLLQF
LAGQQVNPTK ALCNIVNNKM VHFDLLHEDV SLQYFIPALS
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