

Product datasheet for **SC319724**

HUS1 (NM_004507) Human Untagged Clone

Product data:

Product Type: Expression Plasmids

Tag: Tag Free

Symbol: HUS1

Synonyms: hHUS1

Mammalian Cell None

Selection:

Vector: pCMV6-XL5

E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_004507.2 GCCGCGCTGCGCCATCCGCGGCCATGAAGTTTCGGGCCAAGATCGTGGACGGGGCCTGT
CTGAACCACTTCACACGAATCAGTAACATGATAGCCAAGCTTGCCAAAACCTGCACCCTC
CGCATCAGCCCTGATAAGCTTAACTTCATCCTTTGTGACAAGCTGGCTAATGGAGGAGTG
AGCATGTGGTGTGAGCTGGAACAGGAGAACTTCTCAACGAATTTCAAATGGAGGGTGTC
TCTGCAGAAAACATGAGATTTATTTAGAGCTAACATCGGAAAACCTATCTCGAGCCTTG
AAGACTGCCCAGAATGCCAGGGCTTTGAAAATCAAACGACTAATAAACACTTTCCCTGC
CTCACGGTCTCCGTGGAGCTGTTATCTATGTCAAGCAGTAGCCGATTGTGACCCATGAC
ATCCCCATAAAGGTGATTCTAGGAAATTGTGGAAGGACTTACAAGAACCGGTGGTCCCA
GATCCTGATGTTAGTATTTATTTACCAGTCTTGAAGACTATGAAGAGTGTGTGGAAAAA
ATGAAAAACATCAGCAATCACCTTGTTATTGAAGCAACCTAGATGGAGAATTGAATTTG
AAAATAGAACTGAATTAGTATGTGTTACAACCTATTTTAAAGATCTTGGAATCCTCCA
TTAGCCTCTGAAAGCACCCATGAGGACAGAAACGTGGAACACATGGCTGAAGTGACATA
GATATTAGGAAGCTCCTACAGTTTCTTGCTGGACAACAAGTAAATCCACAAAGGCCTTA
TGCAATATTGTGAATAACAAGATGGTGATTTTGATCTGCTTCATGAAGACGTGTCCTT
CAGTATTTTCATCCCTGCGCTGCTAGCACCTGTCGCTGGAGTTGGCATGCAGAGACTT
TGTCAGGATGGGAGAGGCCGAGGTGTTGTGTTCTGATCACTGGTCTGTGCCCTCACAGC
ACCGCACATCGACACACTGTAATTTGTCCCTCTTAACATTTTAACTAAAAGTTGAT
TCAACAACACAGTTGGATAAACATATCACTTCATGTTAAAAAATAAAAAA
AAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_004507



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:	<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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_004507.2 , NP_004498.1
RefSeq Size:	2143 bp
RefSeq ORF:	843 bp
Locus ID:	3364
UniProt ID:	O60921
Cytogenetics:	7p12.3
Domains:	Hus1
Protein Families:	Druggable Genome

Gene Summary:

The protein encoded by this gene is a component of an evolutionarily conserved, genotoxin-activated checkpoint complex that is involved in the cell cycle arrest in response to DNA damage. This protein forms a heterotrimeric complex with checkpoint proteins RAD9 and RAD1. In response to DNA damage, the trimeric complex interacts with another protein complex consisting of checkpoint protein RAD17 and four small subunits of the replication factor C (RFC), which loads the combined complex onto the chromatin. The DNA damage induced chromatin binding has been shown to depend on the activation of the checkpoint kinase ATM, and is thought to be an early checkpoint signaling event. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2011]

Transcript Variant: This variant (1) represents the longer transcript and encodes a protein of 280 aa.