

## Product datasheet for **MG204186**

### Hus1 (BC061249) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Hus1 (BC061249) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Hus1
Synonyms:	mHus1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG204186 representing BC061249 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAAGTTTCGCGCCAAGATCGTGGACCTGGCTTGTCTGAATCATTTACACGAGTCAGTAACATGATAG  
CCAAGTTGCCAAAACCTGCACCCTCCGCATCAGCCCGGAGAAGCTGAACATTCATCCTTTGCGACAAGCT  
GGCCAGTGGAGGCGTGAGCATGTGGTGTGAGCTGGAGCAGGAGAAGCTTTTTAGTGAATTTCAAATGGAA  
GGAGTCTCTGAAGAAAACAACGAGATTTATTTAGAATTAACGTCGAAAACCTTATCTCGAGCCTTGAAAA  
CTGCCAGAACTCCAGAGCCTTGAAAATCAAGCTGACTAACAAACACTTCCCTGTCTTACCGTGTCTGT  
AGAGCTGCAGGTGTCTTCATCGAGCAGCAGCAGAATCGTGGTGCATGATATCCCCATAAAGTTCTTCCG  
AGAAGACTGTGGAAGGACTTACAAGAACCCTCCATCCCAGACTGTGATGTCAGTATTTGCTTACCAGCCT  
TGAAGATGATGAAGAGTGTGTGGAAAAATGAGAAACATCAGCAATCAGCTTGTGATTGAAGCAAACCT  
AAAGGGAGAATTAACCTAAAGATAGAACTGAGTTAGTGTGTGACTACTCATTTAAGGATCTTGAA  
AACCTCTATTACCCTCTGACAGTGTCTCTAAAAACAGACACCCAGAAGACATGGCCAAGGTGCACATTG  
ACATAAAGAACTCCTCCAGTTTCTTGCCGGACAGCAAGTACTCCCAAGGCAGTGTGCAGTGAGTT  
TGCTTCTCCATTATCCACCTCCTTTGTCTACATATGCAAGTATGCCAGTCTGGCAATCGAGCTGCCT  
GAGACAGTCAGGCTTGAAGGTCCCTTGAGCCAGAGGTATCTAGAGATGCTGAGGAAGAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG204186 representing BC061249  
Red=Cloning site Green=Tags(s)

MKFRAKIVDLACLNHFTRVSNMIAKLAKTCTLRISPEKLNFI LCDKLASGGVSMWCELEQENFFSEFQME  
 GVSEENNEIYLELTSENL SRALKTAQNSRALKIKL TNKHFPCL TVSVELQVSSSSSRIVVHDIPIKVL P  
 RRLWKDLQEPSIPDCDVSICLPALKMMKSVVEKMRNISNQLVIEANLKGELNLKIETELVCVTTTHFKDLE  
 NPLLPSDSVSNRHPEDMAKVHIDIKLLQLFLAGQQVPTKAVCSEFASPLSTSFVLHMVQCPVLAIELP  
 ETVRLERSLEPEVSRDAEEEE

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** BC061249

**ORF Size:** 900 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.

**RefSeq:** [BC061249.1](#)

**RefSeq Size:** 2127 bp

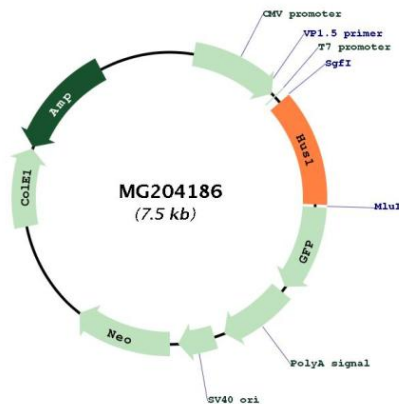
**RefSeq ORF:** 902 bp

**Locus ID:** 15574

**Cytogenetics:** 11 5.74 cM

**Gene Summary:** This gene encodes a component of a cell cycle checkpoint complex that causes cell cycle arrest in response to bulky DNA lesions and DNA replication blockage. Together with the proteins Rad9 and Rad1, the encoded protein forms a heterotrimeric complex known as the 9-1-1 complex. Mice lacking the encoded protein develop spontaneous chromosomal abnormalities resulting in embryonic lethality. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Jan 2015]

## Product images:



Circular map for MG204186