

## Product datasheet for RC201399

### HSBP1 (NM\_001537) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** HSBP1 (NM\_001537) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** HSBP1  
**Synonyms:** NPC-A-13  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC201399 ORF sequence  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCGAGACTGACCCCAAGACCGTGCAGGACCTCACCTCGGTGGTGCAGACACTCCTGCAGCAGATGC  
AAGATAAATTTTCAGACCATGTCTGACCAGATCATTGGGAGAATTGATGATATGAGTAGTCGCATTGATGA  
TCTGGAAAAGAATATCGCGGACCTCATGACACAGGCTGGGGTGAAGAAGTGGAAAGTAAAACAAGATA  
CCTGCCACGAAAAGAGT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC201399 protein sequence  
Red=Cloning site Green=Tags(s)  
MAETDPKTVQDLTSVVQTLTLLQQMQDKFQTMSDQIIGRIDDMSSRIDDLKNIADLMTQAGVEELEESENKI  
PATQKS

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6409\\_a06.zip](https://cdn.origene.com/chromatograms/mk6409_a06.zip)

**Restriction Sites:** Sgfl-Mlul



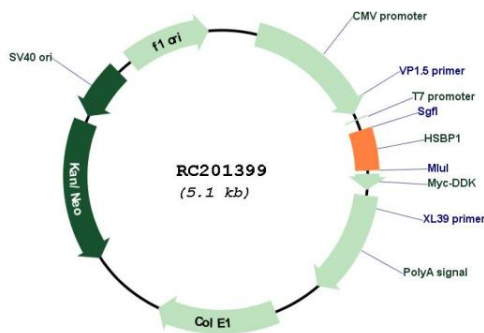
[View online »](#)



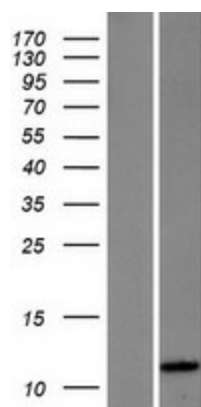
**UniProt ID:** [O75506](#)  
**Cytogenetics:** 16q23.3  
**Protein Families:** Transcription Factors  
**MW:** 8.5 kDa

**Gene Summary:** The heat-shock response is elicited by exposure of cells to thermal and chemical stress and through the activation of HSFs (heat shock factors) results in the elevated expression of heat-shock induced genes. Heat shock factor binding protein 1 (HSBP1), is a 76-amino-acid protein that binds to heat shock factor 1(HSF1), which is a transcription factor involved in the HS response. During HS response, HSF1 undergoes conformational transition from an inert non-DNA-binding monomer to active functional trimers. HSBP1 is nuclear-localized and interacts with the active trimeric state of HSF1 to negatively regulate HSF1 DNA-binding activity. Overexpression of HSBP1 in mammalian cells represses the transactivation activity of HSF1. When overexpressed in *C.elegans* HSBP1 has severe effects on survival of the animals after thermal and chemical stress consistent with a role of HSBP1 as a negative regulator of heat shock response. [provided by RefSeq, Jul 2008]

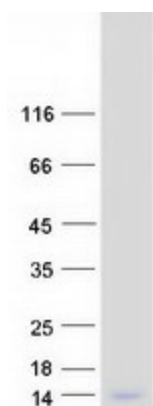
**Product images:**



Circular map for RC201399



Western blot validation of overexpression lysate (Cat# [LY419869]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201399 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified HSBP1 protein (Cat# [TP301399]). The protein was produced from HEK293T cells transfected with HSBP1 cDNA clone (Cat# RC201399) using MegaTran 2.0 (Cat# [TT210002]).