

Product datasheet for **SC119194**

HSBP1 (NM_001537) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HSBP1 (NM_001537) Human Untagged Clone
Tag:	Tag Free
Symbol:	HSBP1
Synonyms:	NPC-A-13
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001537, the custom clone sequence may differ by one or more nucleotides

[ATGGCCGAGACTGACCCCAAGACCGTGCAGGACCTCACCTCGGTGGTGCAGACACTCCTGCAGCAGATGC
AAGATAAAATTTAGACCATGTCTGACCAGATCATTGGGAGAATTGATGATATGAGTAGTCGCATTGATGA
TCTGGAAAAGAATATCGCGGACCTCATGACACAGGCTGGGGTGGAAAGAACTGGAAAGTGAACAAGATA
CCTGCCACGCAAAAGAGTTGA](#)

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_001537 unedited
GTTGCATTTGTATACGACTCCTATAGGCGGCCGNAATTCGCACGAGGGGAAGTGTAGG
TTACGGTCTGAGACTCACCGCCAAGCTGGGCATCGGGGAGATGGCCGAGACTGACCCCAA
GACCGTGCAGGACCTCACCTCGGTGGTGCAGACACTCCTGCAGCAGATGCAAGATAAATT
TCAGACCATGTCTGACCAGATCATTGGGAGAATTGATGATATGAGTAGTCGCATTGATGA
TCTGGAAAAGAATATCGCGGACCTCATGACACAGGCTGGGGTGGAAAGAACTGGAAAGTGA
AAACAAGATACCTGCCACGCAAAAGAGTTGAAGGTTGCTAATAATTTATACTGGAATCTG
GCATTTTTCCAAGCCAAGAGAAGATCGAATGGCTTTTTGCAGCTAACTACTATGTGTAGA
CAGGTTTTATATTATAAAGTATGCATTCTTATACCTAGTATATAGTTAGTTTGTAGAGT
GATTTCCCCCAAGTTTCTTGAACATGGTATCTTACATCTTGGACCTTGGTCAGTTGTGC
TATTCATTATTAACACTAAAACCTTTGGCGGTTCTTGCATAACATTGTCAGATTTTTTAG
TGTATTCTGTGAAGTCATTTTTTTCTTGTCACTCTTTTGTAGTAGTTGTCTGTTTGGGA
TAAAGTTGATGTGTGATTTTTTATTAACAAATAGTAAACCCTTCAATTATAGTTAGTC
TTGGTGAAGTAAGATGTTGTAGACTTTAGAGTTCTTTAATCTTGGCACAACGTGACTG
TTGAGCTAACACCANATAGTGTGTTGGCAATACTTTTCAAATGGCTGAACACACCTAAAA
ATTGTCATCCAGAATATCTGTCACTGCTGTTGCCAACTCAGATAGAACTTANACTAT
GTCTGAGTCCCTGAGATCACTGCTAAGTCGAT



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Restriction Sites:	NotI-NotI
ACCN:	NM_001537
Insert Size:	1960 bp
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).
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.
RefSeq:	NM_001537.2 , NP_001528.1
RefSeq Size:	1919 bp
RefSeq ORF:	231 bp
Locus ID:	3281
UniProt ID:	O75506
Cytogenetics:	16q23.3
Protein Families:	Transcription Factors
Gene Summary:	<p>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]</p>