OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC201580

Heat Shock Factor 2 Binding Protein (HSF2BP) (NM_007031) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Heat Shock Factor 2 Binding Protein (HSF2BP) (NM_007031) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Heat Shock Factor 2 Binding Protein
Synonyms:	MEILB2; POF19
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC201580 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGCGAAGCGGGCGCCGCTGAGGAGGCCTGCCGGCACATGGGAACTAAAGAGGAATTTGTTAAAGTCA
GAAAGAAGGATCTGGAACGGCTGACAACTGAAGTGATGCAAATACGGGACTTCTTACCCAGAATACTAAA
TGGGGAGGTGCTGGAGAGCTTCCAGAAATTAAAGATTGTAGAAAAAAAACCTGGAAAGGAAAGAGCAAGAA
TTAGAGCAGCTGAAAATGGATTGTGAGCACTTTAAAGCCCGCCTGGAAACCGTGCAGGCCGACAACATAA
GAGAGAAGAAGGAGAAACTGGCTCTTCGACAGCAGTTGAATGAAGCGAAGCAGCAACTCCTGCAGCAGGC
AGAGTATTGTACAGAAATGGGAGCAGCAGCGTGTACCCTCTTGTGGGGTGTCTCCAGCAGTGAGGAAGTC
GTCAAGGCCATTTTGGGAGGAGATAAAGCTTTGAAGTTTTTCAGCATCACTGGTCAAACAATGGAGAGTT
TTGTGAAGTCGTTAGACGGTGATGTCCAGGAGCTGGATTCGGATGAAAGTCAGTTTGTTTTCGCTCTGGC
TGGAATTGTCACGAATGTTGCTGCTATAGCATGTGGTCGTGAATTCTTGGTTAATTCAAGCCGGGTGCTC
TTGGACACCATATTGCAGCTTCTGGGAGACTTGAAGCCAGGACAGTGTACCAAACTCAAAGTGCTAATGC
TGATGTCCCTATACAATGTAAGCATCAATTTGAAAGGCTTGAAATACATCAGCGAGAGTCCAGGATTCAT
CCCTTTGCTGTGGTGGCTTTTGAGTGATCCAGATGCAGAGGTGTGCCTTCATGTACTGAGGCTTGTCCAG
TCTGTGGTTCTGGAACCTGAAGTCTTCTCCAAGTCGGCCTCTGAGTTCCGGAGCTCCCTGCCCCTGCAAC
GCATCCTGGCAATGTCCAAGAGCCGCAACCCCCGCCTGCAAACCGCAGCCCAGGAGCTCCTGGAAGATCT
CCGCACTCTGGAGCATAATGTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

View online »

Protein Sequence:

>RC201580 protein sequence
Red=Cloning site Green=Tags(s)

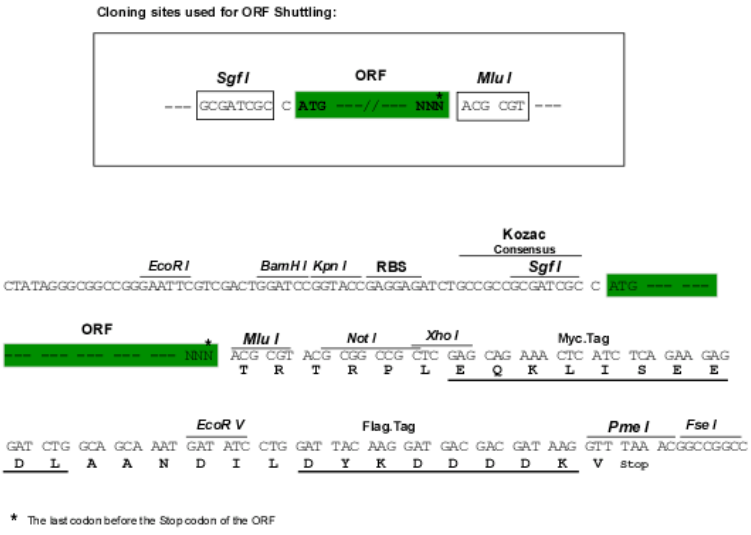
MGEAGAAEEACRHMGTKEEFVKVRKKDLERLTTEVMQIRDFLPRILNGEVLESFQKLKIVEKNLERKEQE
LEQLKMDCEHFKARLETVQADNIREKKEKLALRQQLNEAKQQLLQQAEYCTEMGAAACTLLWGVSSSEEV
VKAILGGDKALKFFSITGQTMESFVKSLDGDVQELDSDESQFVFALAGIVTNVAAIACGREFLVNSSRVL
LDTILQLLGDLKPGQCTKLKVLMLMSLYNVSINLKGLKYISESPGFIPLLWWLLSDPDAEVCLHVLRLVQ
SVVLEPEVFSKSASEFRSSLPLQRILAMSKSRNPRLQTAAQELLEDLRTLEHNV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6299_c12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_007031

ORF Size: 1002 bp

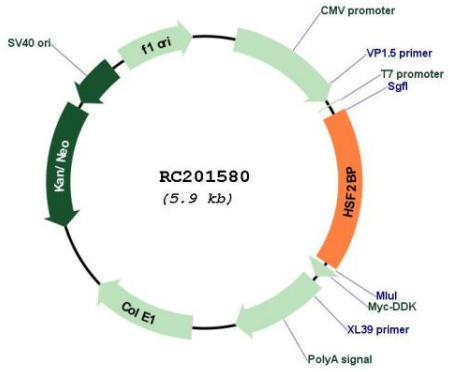
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

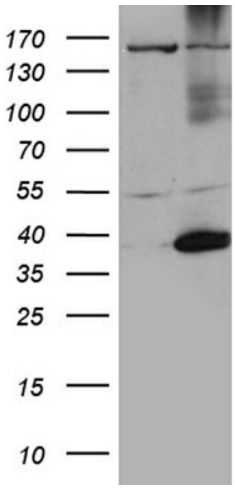
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_007031.2
RefSeq Size:	1916 bp
RefSeq ORF:	1005 bp
Locus ID:	11077
UniProt ID:	O75031
Cytogenetics:	21q22.3
Protein Families:	Transcription Factors
MW:	37.6 kDa
Gene Summary:	HSF2 binding protein (HSF2BP) associates with HSF2. The interaction occurs between the trimerization domain of HSF2 and the amino terminal hydrophilic region of HSF2BP that comprises two leucine zipper motifs. HSF2BP may therefore be involved in modulating HSF2 activation. [provided by RefSeq, Jul 2008]

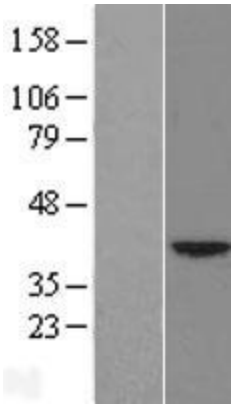
Product images:



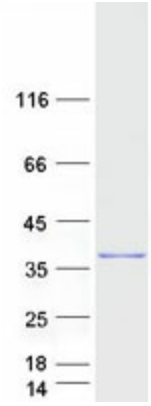
Circular map for RC201580



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY HSF2BP (Cat# RC201580, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-HSF2BP (Cat# [TA810898])(1:500). Positive lysates [LY416250] (100ug) and [LC416250] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY416250]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201580 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified HSF2BP protein (Cat# [TP301580]). The protein was produced from HEK293T cells transfected with HSF2BP cDNA clone (Cat# RC201580) using MegaTran 2.0 (Cat# [TT210002]).