

Product datasheet for **RG225535**

HSPBP1 (NM_001130106) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: HSPBP1 (NM_001130106) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: HSPBP1
Synonyms: FES1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG225535 representing NM_001130106
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTCAGACGAAGGCTCAAGGGGGAGCCGCTGCCCTGGCGCTGCCCCGGCCTCCAGGGTTGCTCTT
 CAGGGGGCGGGCGGGCTCCTCGGCTGGGGGCTCGGGCAATCCCGGCCCCACGCAACCTCCAAGG
 CTTGCTGCAGATGGCCATCACCGCGGGCTGAAGAGCCAGACCCTCCTCAGAACCGATGAGTGAGGAG
 AGGCGTCAGTGGCTGCAGGAGCCATGTCGGCTGCCTCCGAGGCCAGCGGGAGGAGGTGGAGCAGATGA
 AGAGCTGCCTCCGAGTGTGTACAGCCATGCCCCACTGCTGGGGAGGCCGAGCAGGGCGCCGACCA
 GCAAGAGCGAGAGGGGGCCCTGGAGCTGCTGGCCGACCTGTGTGAGAACATGGACAATGCCCGAGACTTC
 TGCCAGCTGTCTGGCATGCACCTGCTGGTGGGCCGGTACCTGGAGGCGGGGGCTGCGGGACTGCGGTGGC
 GGGCGGCACAGCTCATCGGCACGTGCAGTCAAGCTGGCAGCCATCCAGGAGCAGGTGCTGGCCCTGGG
 TGCCCTGCGTAAGCTGCTGCGGCTGCTGGACCGGACGCTGCGACACGGTGCAGCGTCAAGGCCCTTTC
 GCCATCTCCTGTCTGGTCCGAGAGCAGGAGGCTGGGCTGCTGCAGTTCCTCCGCTGGACGGTTCTCTG
 TGTTGATGAGGGCCATGCAGCAGCAGGTGCAGAAGCTCAAGGTCAAATCAGCATTCTGCTGCAGAACCT
 GCTGGTGGCCACCCTGAACACAAAGGGACCCTGTGCTCCATGGGGATGGTCCAGCAGCTGGTGGCCCTG
 GTGCGGACAGACAGCCCTTCCACGAGCACGTGCTTGAGCCCTGTGCAGCCTGGTGCAGACTTTC
 CGCAGGGTGTGCGCGAGTGTGGGAGCCGGAACCTGGGCCTGGAGGAGCTCCTCCGCCACCCTGTACAGT
 GCTGCAGCAGCATGAGGAGTACCAGGAGGAGCTGGAGTCTGTGAAAAGCTGCTACAGACCTGTTTCTCC
 AGCCAGCGGACGACAGCATGGATCGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG225535 representing NM_001130106
 Red=Cloning site Green=Tags(s)

MSDEGSRGSRLPLALPPASQGCSSGGGGSSAGGSGNSRPPRNLLQGLLQMAITAGSEEDPPPEPMSEE
 RRQWLQEAMSAAFRGRQEEVEQMKSLRVL SQMPPTAGEAEQAADQQERE GALELLADLCENMDNAADF
 CQLSGMHLLVGRYLEAGAAGLRWRAAQLIGTCSQNVAAIQEQVLGLGALRKLRLLLDRDACD TVRVKALF
 AISCLVREQEAGLLQFLRLDGF SVLMRAMQQVQKLVKSAFLLQNLVGHPEHKGTLCSMGMVQQLVAL
 VRTEHSPFHEHVLGALCSLVDFPQGVRECREPEL GLEELLRHRCQLLQQHEEYQEELFCEKLLQTCFS
 SPADDSMDR

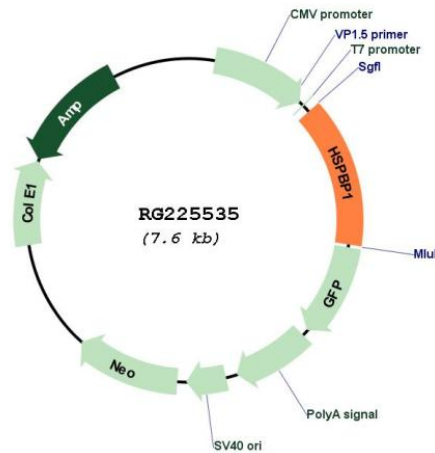
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001130106

ORF Size:	1077 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:	<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_001130106.1 , NP_001123578.1
RefSeq Size:	1816 bp
RefSeq ORF:	1080 bp
Locus ID:	23640
UniProt ID:	Q9NZL4
Cytogenetics:	19q13.42
Gene Summary:	Inhibits HSPA1A chaperone activity by changing the conformation of the ATP-binding domain of HSPA1A and interfering with ATP binding. Interferes with ubiquitination mediated by STUB1 and inhibits chaperone-assisted degradation of immature CFTR.[UniProtKB/Swiss-Prot Function]