

Product datasheet for **RG211972**

HABP4 (NM_014282) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HABP4 (NM_014282) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HABP4
Synonyms:	IHABP-4; IHABP4; Ki-1/57; SERBP1L
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG211972 representing NM_014282 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGGGCGCTCTGGGAGTCCCGTGGCTGCCGTGGCGCCGCGATGCAGGAGAGTTTCGGCTGCGTGG
TGGCCAACCGCTCCATCAGCTGCTGGACGACGAGTCGGACCCGTTGACATCCTGCGGAGGCCGAGCG
CCGGCGCCAGCAGCAGCTGCAGCGCAAGAGGCGGACGAGGCGGGCGGGCCGGGGCCGGTCCCCGC
GGCGGCAGGAGCCAGCCGGGGCTCGGCCACAGAGCCGGCGGGCGGGCCGGAGGGAGTCGCAGAAGG
AGCGCAAGAGCCTCCCGCGCCCGTCCGTCACCGCCGATAGCCCCGGGGCGGCTGCAGGCGCCGGG
CCAGAAGCGGACTCCTAGAAGAGGGGAGCAGCAAGGATGGAATGACAGCCGTGGCCGGAGGGGATGCTC
GAAAGAGCTGAGCGGAGATCCTACAGGGAATACCGACCCTATGAGACAGAGAGGCAGGCAGACTTCACAG
CTGAGAAGTTTCCAGATGAAAAACAGGTGATAGGTTTGTATCGAGACAGACCGTTGAGAGGACGTGGAGG
CCCAGAGGGGGTATGCGCGGCAGAGGCAGAGGTGGCCCTGGGAACAGAGTTTTTGACGCTTTTGACCAG
AGAGGAAAGCGAGAATTTGAAAGATATGGTGGGAATGACAAAATAGCAGTCAGAAGTGAAGACAACATGG
GTGGATGTGGAGTTCGAACCTGGGGATCGGGTAAAGATACCAGTGTGTGGAGCCAAGTGCACCGATGGA
GGAACCCACAGTGGTGGAGGAGTCCCAGGGCACCCGGAAGAGGAGTCTCCAGCCAAAGTTCCTGAGTTG
GAGGTAGAAGAAGAAACCAAGTTCAAGAGATGACTTTAGATGAGTGGAAAAATCTTCAAGAACAGACCA
GACCAAAGCCTGAGTTTAAACATCCGAAACAGAAATCCACTGTTCTTCCAAAGCCGTGGTGATTACAA
GTCAAAATACAGAGATGATATGGTAAAAGATGACTATGAGGACGATTCCCATGTTTTCCGGAAACCCGCC
AATGACATCACATCCCAGCTGGAGATTAATTTGGTAACCTCCCTCGTCTGGGCGTGGAGCCAGAGGAG
GCACCCGGGGAGGCCGGGAAGGATCAGGAGGGCAGAGAACAATATCCCAGAGCAGAAGTGGTGTGCA
AGATGTTGCCCAACCCAGATGACCCGGAAGATTTCCCTGCGCTGTCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG211972 representing NM_014282
 Red=Cloning site Green=Tags(s)

MKGALGSPVAAAGAAMQESFGCVVANRFHQLLDDSDPFDILREARRRQQQLQRKRDEAAAAAGAGPR
 GGRSPAGASGHRAGAGRRRESQKERKSLPAPVAHRPDSPPGGGLQAPGQKRTPRRGEQQGWNDSRGPEGML
 ERAERRSYREYRPYETERQADF TAEKFPDEKPGDRFDRDRPLRGRGGPRGMRGRGRGGPGNRVDFADFQ
 RGKREFERYGGNDKIAVRTEDNMGGCGVRTWGSCKDTS DVEPTAPMEEPTVVEESQGTPEEESPAKVPEL
 EVEEETQVQEMTLDEWKNLQEQTRPKPEFNIRKPESTVPSKAVVIHKSKYRDDMVKDDYEDDSHVFRKPA
 NDITSQLEINFGNLRPRGARGGTRGGRGIRRAENNYPRAEVMQDVAPNPDDPEDFPALS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_014282

ORF Size: 1239 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: [NM_014282.1](#), [NP_055097.1](#)

RefSeq Size: 1799 bp

RefSeq ORF: 1242 bp

Locus ID: 22927

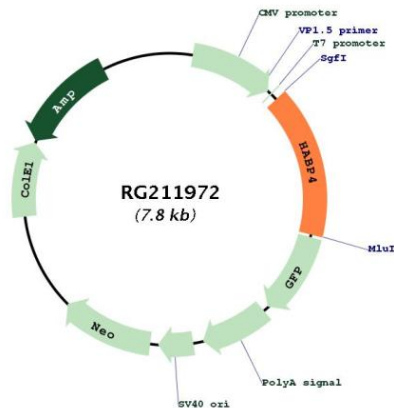
UniProt ID: [Q5JVS0](#)

Cytogenetics: 9q22.32

Domains: HABP4_PAI-RBP1

Gene Summary: RNA-binding protein that plays a role in the regulation of transcription, pre-mRNA splicing and mRNA translation (PubMed:14699138, PubMed:16455055, PubMed:19523114, PubMed:21771594). Negatively regulates DNA-binding activity of the transcription factor MEF2C in myocardial cells in response to mechanical stress (By similarity). Plays a role in pre-mRNA splicing regulation (PubMed:19523114). Binds (via C-terminus) to poly(U) RNA (PubMed:19523114). Involved in mRNA translation regulation, probably at the initiation step (PubMed:21771594). Seems to play a role in PML-nuclear bodies formation (PubMed:28695742).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG211972