

Product datasheet for **RG203899**

HEBP2 (NM_014320) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Tag: TurboGFP
Symbol: HEBP2
Synonyms: C6orf34; C6ORF34B; PP23; SOUL
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG203899 representing NM_014320
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCGAGCCGCTCCAGCCAGACCCGGGGCGGCCGAGGACGCGCGGCCCAAGCTGTGGAGACGCCGG
GCTGGAAGGCCCGGAGGACGCCGCCCGCCAGCCGGAAGTTATGAGATCCGACACTATGGACCAGCCAA
GTGGGTGAGCAGTCCGTGGAGTCTATGGACTGGGATTCAGCCATCCAGACGGGCTTACGAACTGAAC
AGCTACATTCAGGCAAAACGAGAAAGAGATGAAAAATAAGATGACAGCTCCAGTGACAAGCTACGTGG
AGCCTGGTTGAGTCCCTTTAGTGAGTCTACCATTACCATTTCCTGTATATTCCTCTGAACAGCAATT
TGATCCACCCAGGCCTTTAGAGTCAGATGTCTTCATTGAAGATAGAGCCGAAATGACTGTGTTGTACGG
TCTTCGATGGATTTTCTAGTGCCCAAAAGAATCAAGAACAACCTTTGACATTAGCAAGCATTTTAAGGG
AAGATGAAAAGTTTTCGATGAGAAGGTTTACTACACTGCAGGCTACAACAGTCCTGTCAAATTGCTTAA
TAGAAATAATGAAGTGTGGTTGATCAAAAAATGAACCCACCAAGAAACGAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG203899 representing NM_014320
Red=Cloning site Green=Tags(s)

MAEPLQPDGAAEDAAAQAVETPGWKAPEDAGPQGSYEIRHYGPAKWVSTSVESMDWDSAIQTGFTKLN
SYIQGKNEKEMKIKMTAPVTSYVEPGSGPFSESTITISLYIPSEQQFDPPRPLESDFIEDRAEMTVFVR
SFDGFSQAQKNQEQLLTLASILREDGKVFDEKVVYTAGYNTPVKLLNRRNEVWLIQKNEPTKENE

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



Cloning Scheme:



ACCN: NM_014320

ORF Size: 615 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_014320.3](#)

RefSeq Size: 1282 bp

RefSeq ORF: 618 bp

Locus ID: 23593

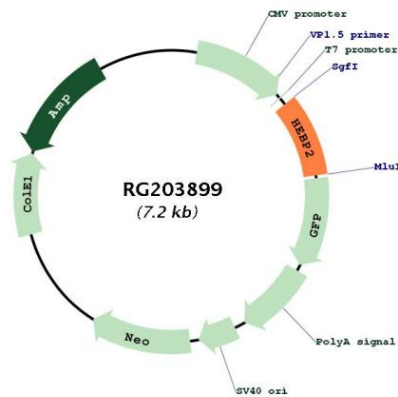
UniProt ID: [Q9Y5Z4](#)

Cytogenetics: 6q24.1

Domains: SOUL

Gene Summary: The protein encoded by this gene is found predominately in the cytoplasm, where it plays a role in the collapse of mitochondrial membrane potential (MMP) prior to necrotic cell death. The encoded protein enhances outer and inner mitochondrial membrane permeabilization, especially under conditions of oxidative stress. [provided by RefSeq, May 2016]

Product images:



Circular map for RG203899