

Product datasheet for **RG204396**

GABPB2 (GABPB1) (NM_002041) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GABPB2 (GABPB1) (NM_002041) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GABPB2
Synonyms:	BABPB2; E4TF1; E4TF1-47; E4TF1-53; E4TF1B; GABPB; GABPB-1; GABPB2; NRF2B1; NRF2B2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG204396 representing NM_002041 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCCTGGTAGATTTGGGAAAGAAGCTTTTAGAAGCGGCACGAGCAGGTCAAGATGATGAAGTTCGTA
TTTTGATGGCAAATGGAGCTCCCTTTACTACAGACTGGCTGGAACTTCTCCACTTCATCTAGCAGCACA
GTATGGTCATTATCCACCACAGAGGTACTGCTGCGAGCTGGTGTGAGCAGAGATGCCAGAACCAAAGTG
GACCGAACACCATTACATATGGCAGCTTCTGAGGGCCATGCCAGCATAGTAGAGTTTTACTTAAGCATG
GTGCTGATGTCAATGCAAAGGACATGTTAAAGATGACAGCTCTCCATTGGGCCACAGAACAATCATCA
AGAGGTGGTGGAACTTTTAAATCAAATATGGTGTGATGTACACACGCAAAGTAAATTTTGTAAAACGCA
TTTGATATTTCAATAGACAATGGAAATGAAGATTTAGCAGAGATATTACAGATTGCTATGCAGAACCAAA
TCAACACAAACCCAGAGAGTCTGACACTGTGACAATACATGCTGCAACACCACAGTTTATCATTGGACC
TGGAGGGGTGGTGAACCTAACAGGTCTGGTATCTTCAGAAAATTCATCCAAGGCAACAGATGAAACGGGT
GTATCTGCTGTTCAAGTCTTTCAGAACTCTTACATCAGTATTAGCTACATTAGCTGCCTTAGCTGAAGCAT
CTGCTCCATTGTCCAATCTTCAGAACTCCAGTAGTGCCACAGAAGAAGTAGTTACTGCAGAATCTGT
GGATGGTGCCATTGCAAGTAGTTAGTTCAGGGGGTCAAGTATCATCAATAGTTACAGATGGAATT
CAGCTTGGAAATTTGCACTCTATTCCAACAGTGAATGGTCAAGCCATCATTGTGACCATGCCAGATG
GACAACAAGTATTAACAGTACCAGCAACAGACATTGCTGAAGAACTGTTATAAGTGAAGAACCACAGC
TAAGAGACAATGTATCGAAATAATTGAAAACCGGGTGAATCTGCAGAAATAGAAGTAAGGAGTCTTTTA
CCCGGTGTGCTTTGCCGAGTCATCCAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG204396 representing NM_002041
 Red=Cloning site Green=Tags(s)

MSLVDLGKLLLEAARAGQDDEVRI LMANGAPFTTDWLGT SPLHLAAQYGHYSTTEVLLRAGVSRDARTKV
 DRTP LHM AASEGHASIVEVLLKHGADVNAK DMLKMTALHWATEH NHQEVVELLIKYGADVHTQSKFCKTA
 FDISIDNGNEDLAEILQIAMQNQINTNPESPDVTIHAATPQFIIGPGGVNLTGLVSSSENSKATDETG
 VSAVQFGNSSTSVLATLAALAEASAPLSNSSETPVVATEEVVTAESVDGAIQQVVSSGGQVITIVTDGI
 QLGNLHSIPTSGIGQPIIVTMPDGGQVLTVPATDIAEETVISEEPPAKRQCI EIIENRVESAEIEVRSL
 PGVLCRSHPK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_002041

ORF Size: 1080 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_002041.4](#)

RefSeq Size: 1448 bp

RefSeq ORF: 1083 bp

Locus ID: 2553

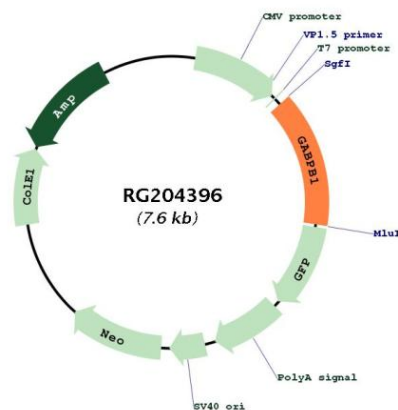
UniProt ID: [Q06547](#)

Cytogenetics: 15q21.2

Protein Families: Transcription Factors

Gene Summary: This gene encodes the GA-binding protein transcription factor, beta subunit. This protein forms a tetrameric complex with the alpha subunit, and stimulates transcription of target genes. The encoded protein may be involved in activation of cytochrome oxidase expression and nuclear control of mitochondrial function. The crystal structure of a similar protein in mouse has been resolved as a ternary protein complex. Multiple transcript variants encoding distinct isoforms have been identified for this gene. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG204396