

Product datasheet for **RG206260**

GABPB2 (GABPB1) (NM_016654) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GABPB2 (GABPB1) (NM_016654) 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:	>RG206260 representing NM_016654 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCCTGGTAGATTTGGGAAAGAAGCTTTTAGAAGCGGCACGAGCAGGTCAAGATGATGAAGTTCGTA
TTTTGATGGCAAATGGAGCTCCCTTTACTACAGACTGGCTGGAACTTCTCCACTCATCTAGCAGCACA
GTATGGTCATTATCCACCACAGAGGTACTGCTGCGAGCTGGTGTGAGCAGAGATGCCAGAACCAAAGTG
GACCGAACACCATTACATATGGCAGCTTCTGAGGGCCATGCCAGCATAGTAGAGGTTTTACTTAAGCATG
GTGCTGATGTCAATGCAAAGGACATGTTAAAGATGACAGCTCTCCATTGGGCCACAGAACAATCATCA
AGAGGTGGTGGAACTTTAATCAAATATGGTGTGATGTACACACGCAAAGTAAATTTGTAAAACCTGCA
TTTGATATTTCAATAGACAATGGAAATGAAGATTTAGCAGAGATATTACAGATTGCTATGCAGAACCAAA
TCAACACAAAACCCAGAGAGTCTGACACTGTGACAATACATGCTGCAACACCACAGTTTATCATTGGACC
TGGAGGGGTGGTGAACCTAACAGATGAAACGGGTGATCTGCTGTTTCAAGTTTGGAACTCTTCTACATCA
GTATTAGCTACATTAGCTGCCTTAGCTGAAGCATCTGCTCCATTGTCCAATCTTCCAGAACTCCAGTAG
TGGCCACAGAAGAAGTAGTTACTGCAGAATCTGTGGATGGTGGCCATTAGCAAGTAGTTAGTTTCAAGGGG
TCAGCAAGTCATCGCAATAGTTACAGATGGAATTCAGCTTGGAAATTTGCACTCTATTCCAACCAAGTGA
ATTGGTCAGCCCATTTGTGACCATGCCAGATGGACAACAAGTATTAACAGTACCAGCAACAGACATTG
CTGAAGAACTGTTATAAGTGAAGAACCACAGCTAAGAGACAATGTATCGAAATAATTGAAACCGGGT
GGAATCTGCAGAAATAGAAGAGAGAGAAGCTCTTCAAGAACAGCTGGATGAAGCAATCGAGAAGCACAA
AAATATCGACAGCAGCTCCTAAAGAAAGAACAGGAAGCAGAGGCCTACAGACAGAAGTTGGAAGCTATGA
CTCGTCTCAGACTAATAAAGAAGCTGTT

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG206260 representing NM_016654
 Red=Cloning site Green=Tags(s)

MSLVDLGKLLAARAGQDDEVRI LMANGAPFTTDWLGT SPLHLAAQYGHYSTTEVLLRAGVSRDARTKV
 DRTP LHM AASEGHASIVEVLLKHGADVNAKMLKMTALHWATEH NHQEVVELLIKYGADVHTQSKFCKTA
 FDISIDNGNEDLAEILQIAMQNQINTNPESPDTVTIHAATPQFIIGPGGVNLTDETVSAVQFGNSSTS
 VLATLAALAEASAPLSNSSETPVVATEEVVTAESVDGAIQQVVSSGGQQVIAIVTDGIQLGNLHSIPTSG
 IGQPIIVTMPDGQQLTVPATDIAEETVI SEEPPAKRQCIEIENRVESAEIEEREALQKQLDEANREAQ
 KYRQQLLKEQEAAYRQKLEAMTRLQTNKEAV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_016654

ORF Size: 1149 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_016654.3](#), [NP_057738.1](#)

RefSeq Size: 2806 bp

RefSeq ORF: 1152 bp

Locus ID: 2553

UniProt ID: [Q06547](#)

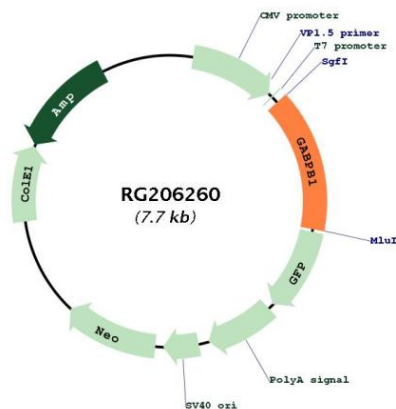
Cytogenetics: 15q21.2

Domains: ANK

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 RG206260