

Product datasheet for **RG211507**

GABPB2 (GABPB1) (NM_016655) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GABPB2 (GABPB1) (NM_016655) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GABPB1
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:	>RG211507 representing NM_016655 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCCCTGGTAGATTTGGGAAAGAAGCTTTTAGAAGCGGCACGAGCAGGTCAAGATGATGAAGTTCGTA
TTTTGATGGCAAATGGAGCTCCCTTTACTACAGACTGGCTGGAACTTCTCCACTTCATCTAGCAGCACA
GTATGGTCATTATCCACCACAGAGGTACTGCTGCGAGCTGGTGTGAGCAGAGATGCCAGAACCAAAGTG
GACCGAACACCATTACATATGGCAGCTTCTGAGGGCCATGCCAGCATAGTAGAGGTTTTACTTAAGCATG
GTGCTGATGTCAATGCAAAGGACATGTTAAAGATGACAGCTCTCCATTGGGCCACAGAACAATCATCA
AGAGGTGGTGGAACTTTTAAATCAAATATGGTGTGATGTACACACGCAAAGTAAATTTTGTAAAACCTGCA
TTTGATATTTCAATAGACAATGGAAATGAAGATTTAGCAGAGATATTACAGATTGCTATGCAGAACCAAA
TCAACACAACCCAGAGAGTCTGACACTGTGACAATACATGCTGCAACACCACAGTTTATCATTGGACC
TGGAGGGGTGGTGAACCTAACAGATGAAACGGGTGATCTGCTGTTTCAAGTTTGGAACTCTTCTACATCA
GTATTAGCTACATTAGCTGCCTTAGCTGAAGCATCTGCTCCATTGTCCAATCTTCCAGAACTCCAGTAG
TGGCCACAGAAGAAGTAGTTACTGCAGAATCTGTGGATGGTGCATTAGCAAGTAGTTAGTTTCAAGGGG
TCAGCAAGTCATCACAATAGTTACAGATGGAATTCAGCTTGGAAATTTGCACTCTATTCCAACCAAGTGA
ATTGGTCAGCCCATTTGACCATGCCAGATGGACAACAAGTATTAACAGTACCAGCAACAGCATTG
CTGAAGAACTGTTATAAGTGAAGAACCACAGCTAAGAGACAATGTATCGAAATAATTGAAACCGGGT
GGAATCTGCAGAAATAGAAGTAAGGAGTCTTTTACCCGGTGTGCTTTGCCGAGTCATCCAAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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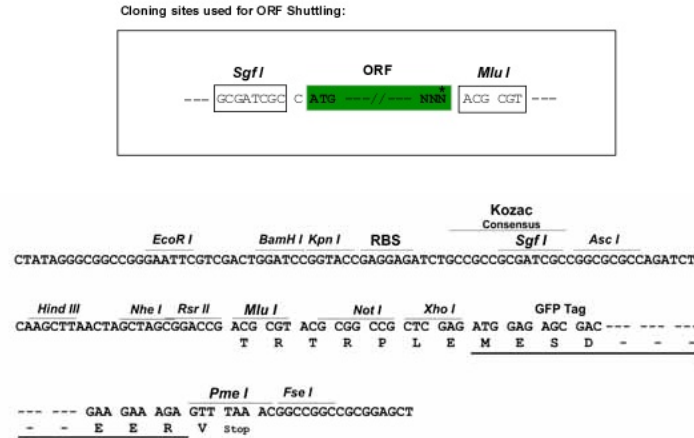
Protein Sequence: >RG211507 representing NM_016655
 Red=Cloning site Green=Tags(s)

MSLVDLGKKLLEAARAGQDDEVRI LMANGAPFTTDWLGT SPLHLAAQYGHYSTTEVLLRAGVSRDARTKV
 DRTP LHM AASEGHASIVEVLLKHGADVN AKDMLKMTALHWATEH NHQEVVELLIKYGADVHTQSKFCKTA
 FDISIDNGNEDLAEILQIAMQNQINTNPESPDVTIHAATPQFIIGPGGVNLTDETGVS AVQFGNSSTS
 VLATLAALAEASAPLSNSSETPVVATEEVVTAESVDGAIQQVVSSGGQQVITIVTDGIQLGNLHSIPTSG
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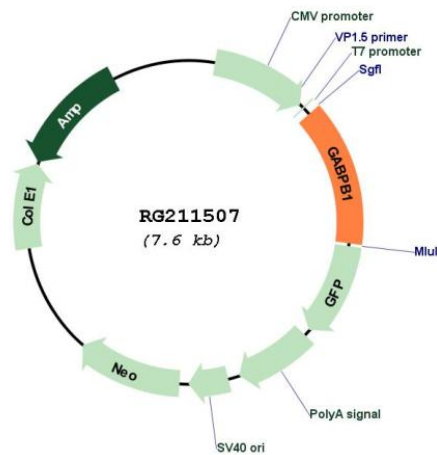
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_016655

ORF Size: 1044 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_016655.4
RefSeq Size:	1412 bp
RefSeq ORF:	1047 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]