

Product datasheet for **SC109259**

GABPB2 (GABPB1) (NM_181427) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GABPB2 (GABPB1) (NM_181427) Human Untagged Clone
Tag:	Tag Free
Symbol:	GABPB2
Synonyms:	BABPB2; E4TF1; E4TF1-47; E4TF1-53; E4TF1B; GABPB; GABPB-1; GABPB2; NRF2B1; NRF2B2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_181427 edited
 TCAGCCCCGGGTACGAGCGCCTCGGGTCCCCGCACCACTCCTGCTGCCTCCCGT
 CGCCGCTCCCGAAGCTTTCCAGATGTCCTGGTAGATTTGGAAAGAAGCTTTAGAAG
 CGGCACGAGCAGGTCAAGATGATGAAGTTCGTATTTGATGGCAAATGGAGCTCCCTTTA
 CTACAGACTGGCTGGAACTTCTCCACTTCATCTAGCAGCACAGTATGGTCATTATTCCA
 CCACAGAGGTAAGTCTGCGAGCTGGTGTGAGCAGAGATGCCAGAACAAAGTGGACCGAA
 CACCATTACATATGGCAGCTTCTGAGGGCCATGCCAGCATAGTAGAGGTTTTACTTAAGC
 ATGGTGTGATGTCAATGCAAAGGACATGTTAAAGATGACAGCTCTCCATTGGGCCACAG
 AACACAATCATCAAGAGGTGGTGGAACTTTAATCAAATATGGTGTGATGTACACACGC
 AAAGTAAATTTGTAAAAGTGCATTTGATTTCAATAGACAATGGAAATGAAGATTTAG
 CAGAGATATTACAGATTGCTATGCAGAACCAAATCAACACAAACCCAGAGAGTCTGACA
 CTGTGACAATACATGCTGCAACACCACAGTTTATCATTGGACCTGGAGGGTGGTGAACC
 TAACAGATGAAACGGGTGTATCTGCTGTTGAGTTGGAACTCTTCTACATCAGTATTAG
 CTACATTAGCTGCCTTAGCTGAAGCATCTGCTCCATTGTCCAATCTTCAGAAACTCCAG
 TAGTGGCCACAGAAGAAGTAGTTACTGCAGAATCTGTGGATGGTGCCATTCAGCAAGTAG
 TTAGTTCAGGGGGTCCAGCAAGTCATCACAATAGTTACAGATGGAATTCAGCTTGGAAAT
 TGCACCTATTCCAACCAAGTGGAAATGGTCAGCCCATCATTGTGACCATGCCAGATGGAC
 AACAAAGTATTAACAGTACCAGCAACAGACATTGCTGAAGAACTGTTATAAGTGAAGAAC
 CACCAGTAAGAGACAATGTATCGAAATAATTGAAAACCGGGTGGAAATCTGCAGAAATAG
 AAGTAAGGAGTCTTTACCCGGTGTGCTTTGCCGAGTCATCCAAAATAA

Restriction Sites:	NotI-NotI
ACCN:	NM_181427
Insert Size:	1100 bp



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OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<u>NM_181427.2</u> , <u>NP_852092.1</u>
RefSeq Size:	1436 bp
RefSeq ORF:	1047 bp
Locus ID:	2553
UniProt ID:	<u>Q06547</u>
Cytogenetics:	15q21.2
Protein Families:	Transcription Factors
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (gamma 3) contains multiple differences compared to variant beta 1, resulting in a shorter isoform (gamma 2) that lacks a 12-amino acid serine-rich region, compared to isoform beta 1. Both this variant (gamma 3) and gamma 2 encode the same isoform (gamma 2), however, they differ in the 5' UTR.</p>