

## Product datasheet for **SC109256**

### GABPB2 (GABPB1) (NM\_016654) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	GABPB2 (GABPB1) (NM_016654) 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-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_016654, the custom clone sequence may differ by one or more nucleotides

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ATGTCCCTGGTAGATTTGGGAAAGAAGCTTTTAGAAGCGGCACGAGCAGGTCAAGATGATGAAGTTCGTA
TTTTGATGGCAAATGGAGCTCCCTTTACTACAGACTGGCTGGAACTTCTCCACTTCATCTAGCAGCACA
GTATGGTCATTATTCCACCACAGAGGTACTGCTGCGAGCTGGTGTGAGCAGAGATGCCAGAACCAAAGTG
GACCGAACACCATTACATATGGCAGCTTCTGAGGGCCATGCCAGCATAGTAGAGTTTTACTTAAGCATG
GTGCTGATGTCAATGCAAAGGACATGTTAAAGATGACAGCTCTCCATTGGGCCACAGAACAATCATCA
AGAGGTGGTGGAACTTTAATCAAATATGGTGTGATGTACACACGCAAAGTAAATTTGAAAACTGCA
TTTGATATTTCAATAGACAATGGAAATGAAGATTTAGCAGAGATATTACAGATTGCTATGCAGAACCAA
TCAACACAAACCCAGAGAGTCTGACACTGTGACAATACATGCTGCAACACCACAGTTTATCATTGGACC
TGGAGGGGTGGTGAACCTAACAGATGAAACGGGTGATCTGCTGTTTCAGTTTGGAACTCTTCTACATCA
GTATTAGCTACATTAGCTGCCTTAGCTGAAGCATCTGCTCCATTGTCCAATTCTTCAGAACTCCAGTAG
TGGCCACAGAAGAAGTAGTTACTGCAGAACTGTGGATGGTGCCATTTCAGCAAGTAGTTAGTTTCAGGGG
TCAGCAAGTCATCACAATAGTTACAGATGGAATTCAGCTTGGAAATTTGCACTCTATTCCAACAGTGGA
ATTGGTCAGCCCATTGTGACCATGCCAGATGGACAACAAGTATTAACAGTACCAGCAACAGACATTG
CTGAAGAACTGTTATAAGTGAAGAACCACCAGCTTTCAGAAACAGCTGGATGAAGCAAATCGAGAAGCACA
AAATATCGACAGCAGCTCTAAAGAAAGAACAGGAAGCAGAGGCCCTACAGACAGAAGTTGGAAGCTATGA
CTCGTCTTCAGACTAATAAAGAAGCTGTTTAA

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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_016654 unedited  TATACGACTCACTATAGGGCGGCCGCGATTTCGGCACGAGGCGGGGCCGCTCAGCCCGGC  CGGGTACGAGGCGCCTCGGGTCCCCGCACCACCTCCTGCTGCCTTCCCGTCGCCGCTCCC  GAAGCTTTTCCAGATGTCCTGGTAGATTTGGGAAAGAAGCTTTTAGAAGCGGCACGAGC  AGGTCAAGATGATGAAGTTCGATTTTGGTGGCAATGGAGCTCCCTTTACTACAGACTG  GCTGGGAACTTCTCCACTTCATCTAGCAGCAGATATGGTCATTATTCCACCACAGAGGT  ACTGCTGCGAGCTGGTGTGAGCAGAGATGCCAGAACCAAAGTGGACCGAACACCATTACA  TATGGCAGCTTCTGAGGGCCATGCCAGCATAGTAGAGGTTTACTTAAGCATGGTGTGA  TGCAATGCAAAGGACATGTTAAAGATGACAGCTCTCCATTGGGCCACAGAACACAAATCA  TCAAGAGGTGGTGGAACTTTTAATAAATATGGTGTGATGTACACACGCAAAGTAAATTT  TGTAAGTGCATTTGATATTTCAATAGACAATGGAAATGAAGATTTAGCAGAGATATTA  CAGATTGCTATGCAGAACCAAATCAACACAAACCCAGAGAGTCTGACACTGTGANCATA  CATGCTGNACACCACAGTTTATCATTGACCTGGAGGGGGGTGGTGAACCTAACAGATG  AAACGGTGTNCTCGTNGGGTTCAGTTTGGAACTCTTTTACATCAGTATTAGCTACATT  AGCTGCCCTAGCTTGAGCATCTGCTNNCATTGTCCATTTCTCAGAACTCCAGTGGCCAN  AAAAAAAAATANTACTGAGATCTGGGGGGGTGGGGCATCACAGAAATTATTNNTTGGGGG  GGGNACACAGTCTTACAATAGTTCCGGAGGGGATTCACCTGGGGATTTTGCACCTTATT  CACCAGGGGGGAATTGTCAACCCTCATTGTGACATGCCAAATGGCACA</p>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_016654 unedited  ACCGCGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTGAACATATGTGAAAAAG  AATTTAATTGCAAAATAGAAAAGTAGGCCAGAGTACAGTTTTAAGGTAATTGCTTTTTA  TACAGTATAGATAACCTAGAGGGATTTTCAGGGTTAAACAGTTCATAAAGCAATAAACAC  TGAAAAATAAAGCAAGAAAAAGGGGTTTGAAGTAAATTTTACCAAAAAAAAAAAAAAGAAA  AAGTGAACAGTCTGCCAGTGTAAATGTCCATACATTGTGGAATTCACAATATTGTGAT  GAGAGCAAGTCATAGCACAGACTGAGCTTTCAAAGGAAAAAGTAGAAGTTACATTAGA  CATGTCTATTGCATCACTGTAATACAAAAAGTTCTGTTCTACATACAAAAGCAATTTTT  TTCCGTAAGAATCATTTCCTGGGGAGAAAATAAGTCCATAAAAATATTTTCAGAAACCCATAT  GCATTTGGGTTTTTCAAAAAACATTATCTTAAAATCAGTGCCTTAAAGTGTCTTCATGTGGA  AATCATGATGGAAGGCACAGAATACAGTTTCACGTCCCCACTCTTAAATTTTCAAAAAAG  CACAGATTTTGCAGAATTGGCAAATTCAGTTTACTTGTAGGCTGCTCCTCCGAGAACA  CTGTCATTCCAATAAAACCAGCTGCCAGCTTACTTCGTTTCAATGACCTAAAGAAAAAGG  GGTTTTTGGGTTTTGTTTTTTTTCTGGGCACTTTCATCATTTCTGTGGGAGAAATACCTA  TGTAAGTATGCATTTTGAATTATNAAACATGCCAGATATGTACAAAACAGAATTTTAAAT  ATTTGCTCATAACATGTAATCTACTTGGGTTAGCTGAAATGACAATTTAAAAATTTGCTT  CTAAAAAGTTTCANAGATCGACACACTAAAGCTGTCAAGAA</p>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_016654
<b>Insert Size:</b>	2660 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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]  
Transcript Variant: This variant (beta 2) lacks an alternate in-frame segment, compared to variant beta 1, resulting in a shorter isoform (beta 2) that lacks a 12-amino acid serine-rich region, compared to isoform beta 1.