

Product datasheet for **SC118865**

GABPA (NM_002040) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GABPA (NM_002040) Human Untagged Clone
Tag:	Tag Free
Symbol:	GABPA
Synonyms:	E4TF1-60; E4TF1A; NFT2; NRF2; NRF2A; RCH04A07
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_002040, the custom clone sequence may differ by one or more nucleotides

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ATGACTAAAAGAGAAGCAGAGGAGCTGATAGAAATTGAGATTGATGGAACAGAGAAAGCAGAGTGCACAG
AAGAAAGCATTGTAGAACAACCTACGCGCCAGCTGAATGTGTAAGCCAGGCCATAGACATCAATGAACC
AATAGGCAATTTAAAGAACTGCTAGAACAAGACTACAGTGTTCTTTGGATGCTCATGAAATTTGTCTG
CAAGATATCCAGCTGGATCCAGAACGAAGTTTATTTGACCAAGGAGTAAAAACAGATGGAAGTGTACAGC
TTAGTGTACAGGTAATTTCTTACCAAGGAATTGAACCAAAGTTAAACATCCTTCAAATTTGTTAAACCTGC
GGACACTGTTGAGTTGTTATTGATCCAGATGCCACCATGCTGAATCAGAAGCACATCTTGTGAAGAA
GCTCAAGTGATAACTCTTGTATGGCACAAAACACATCACAACCATTTCAGATGAAACTTCAGAACAAGTGA
CAAGATGGGCTGCTGCACTGGAAGGCTATAGGAAAGAACAAGAAGCCTTGGGATACCCTATGATCCCAT
ACAGTGGTCCACAGACCAAGTCCCTGCATTGGGTGGTTGGGTAATGAAGGAATTCAGCATGACCGATATA
GACCTCACCACACTCAACATTTCCGGGGAGAGAATTATGTAGTCTCAACCAAGAAGATTTTTTTCAGCGGG
TTCTCGGGGAGAAATCTCTGGAGTCATCTGGAATTTCCGAAATATGTATTGGCAAGTCAAGAACA
ACAGATGAATGAAATAGTTACAATTGATCAACCTGTGCAAATTTCCAGCATCAGTGAATCTGCTACA
CCTACTACCATTAAGTTATAAATAGTAGTGCGAAAGCAGCCAAAGTACAAGAGCGCCGAGGATTTTCAG
GAGAAGATAGAAGCTCACCTGGGAACAGAACAGGAAACAATGGCCAAATCCAATATGGCAGTTTTTGCT
AGAACTTCTTACTGATAAGGACGCTCGAGACTGCATTTCTGGGTTGGTATGAAGTGAATTTAAGCTA
AATCAGCCTGAACTGGTTGCACAGAAATGGGGACAGCGTAAAAATAGCCTACGATGAACTATGAGAAAC
TCAGTCGTGCATTAAGATATTATTACGATGGGGACATGATTTGTAAGTTCAAGGCAAGAGATTTGTGTA
CAAGTTTGTCTGTGACTTGAAGACTCTTATTGGATACAGTGCAGCGGAGTTGAACCGTTTGGTCACAGAA
TGTGAACAGAAGAACTTGCAAAGATGCAGCTCCATGGAATTGCCAGCCAGTCACAGCAGTAGCTCTGG
CTACTGCTTCTGCAAACGGAAAAGGATAATTGA
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_002040 unedited
 TAGGGCGGCCCGGAATTCGCACGAGGGGGAAGGGCCCTGGGACCTCACACTTCTAGTCG
 CGGGAGCTGCAGGTCTTACCCGGAGAGACGCTGCACGTGGAGCCCTCGCCGCTGCCGTT
 TCAGCCGGCTCTGGAGTGC GGCGGGGGCGACAGGGCCGATTCCGGAGTGGGACTGATCC
 TTTGAAATACTCCAGCCATGACTAAAAGAGAAGCAGAGGAGCTGATAGAAATTGAGATTG
 ATGGAACAGAGAAAGCAGAGTGCACAGAAGAAAGCATTGTAGAACAAACCTACGGCCAG
 CTGAATGTGTAAGCCAGGCCATAGACATCAATGAACCAATAGGCAATTTAAAGAAATGC
 TAGAACCAAGACTACAGTGTCTTTGGATGCTCATGAAATTTGTCTGCAAGATATCCAGC
 TGGATCCAGAACGAAGTTTATTTGACCAAGGAGTAAAAACAGATGGAACGTACAGCTTA
 GTGTACAGGTAATTTCTTACCAAGGAATTGAACCAAAGTAAACATCCTTGAAATTGTTA
 AACCTGCGGACACTGTTGAGTTGTTATTGATCCAGATGCCACCATGCTGAATCAGAAG
 CACATCTTGTGGAAGAAGCTCAAGTGATAACTCTTGATGGCACAAAACACATCACAACCA
 TTTCAGATGAAACTTCAGAACAAGTGACAAGATGGGCTGCTGCACTGGGAGGCTATANGA
 AAGAACAGAAACGCTGNGATACCCTATGATCCCATACAGTGGGTACAGACCAAGTCTCT
 GCATTGGGNTGGTTTGGGGTATGAAGNATTCANCATGACCGATNTAGACCTNACCCACA
 CTCACATTTNCGGGAGAGAAATTTATGTAGCCTCACCAAGAAAATTTTTNCAACGGGNTC
 CTCGGGAGAAAATCTCTGGNAGCATG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_002040 unedited
 TAAGGAACCGCGCCGAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTA
 CTGGATAATAGTTTTATTTTCTCATTACTATTTTACATTTTATGCACAAATATTTA
 TCTGCGTAAAAATAGAAAATAACTGTTTTATGTAAAATTACAAAAAAATTAACCACA
 AAGAAATACATAATTGTTATTATGACAGTATAAGTGTCGTTGTCGTTATTTAAAGAGTAA
 AAATGTATGCAAAAGTCCTCCCATTTACAAAAGATTGAGAATTTGTTTTTCTGGC
 AGCAAGTGAAATATTGAAGTATCAATTTTTTACACCCTTAGATCTGAAGACATTAAGT
 TAGTCACAGATTTGTTTTGCAATTATGAATTTTAAACATTTTTGTGCTATTTCAAGGAT
 ACACTAGTTCTTTCTTAAAGGCAGTAGCATAAAATGAATATGGAAAACAGCAGACCTCAC
 AAAAAATTTGGTGGTACAATTTTCTTAATAACATAGACTGATACAAAAATAACTGTGATC
 GAGAAAACAATAAACAATTTTCTTAATAACATAGACTGATACAAAAATAACTGTGATC
 AGTCAATTTATCTGAAGATCAACCACACATAGCAATTTCTGCCTCATTGTTTTCTGATG
 CCAACACAAATATTTAGACTTTAGGCTAGCAAGATATGTATGAAAGTTGGCTCAATAAAA
 ACTTCACATGGAAAACAATTTTAAACAAAAATGAACATTTCTTTACTTAAATTTCTTG
 TACTTCTAAGGTACAAATGATGACCAATAATTTTANTCTTTNCTCCTTNGATATACTGT
 NAAATTCTATNGAAAAATTCATTTATNAAAAACCAAGCNAGAATAGCATAAAATTTTATT
 TTCTTTACAATTGTTATATTTTAAATAGAGAAAAAACTACCTTTNCTGAAACTGTTACCC
 CTAGTAAACNAATATTTAATATAATTTTGAGCNAAGTAATGAGTTTCTTGATC

Restriction Sites:

NotI-NotI

ACCN:

NM_002040

Insert Size:

4700 bp

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).

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_002040.2, NP_002031.2</u>
RefSeq Size:	4394 bp
RefSeq ORF:	1365 bp
Locus ID:	2551
UniProt ID:	<u>Q06546</u>
Cytogenetics:	21q21.3
Domains:	ETS, SAM_PNT
Protein Families:	Transcription Factors
Gene Summary:	<p>This gene encodes one of three GA-binding protein transcription factor subunits which functions as a DNA-binding subunit. Since this subunit shares identity with a subunit encoding the nuclear respiratory factor 2 gene, it is likely involved in activation of cytochrome oxidase expression and nuclear control of mitochondrial function. This subunit also shares identity with a subunit constituting the transcription factor E4TF1, responsible for expression of the adenovirus E4 gene. Because of its chromosomal localization and ability to form heterodimers with other polypeptides, this gene may play a role in the Down Syndrome phenotype. Two transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Oct 2010]</p> <p>Transcript Variant: This variant (1) represents the longer transcript. Variants 1 and 2 both encode the same protein.</p>