

## Product datasheet for **SC305788**

### **GAB2 (NM\_080491) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	GAB2 (NM_080491) Human Untagged Clone
Tag:	Tag Free
Symbol:	GAB2
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF within SC305788 sequence for NM\_080491 edited (data generated by NextGen Sequencing)

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ATGAGCGGCGCGGCGGACGCTGGTGTGCACCGGCTGGCTGAGGAAATCGCCTCCCAGAGAAG
AAGTTGAGGGCGTATGCCTGGAAGAAACGCTGGTTTATCCTGCGGAGTGGCCGGATGAGC
GGTGACCCAGATGTTCTGGAATACTACAAGAACGATCACTCCAAGAAGCCTCTGCGGATC
ATCAACCTGAACCTCTGTGAGCAGGTAGATGCAGGCCTGACCTTTAACAAGAAGGAGCTG
CAGGATAGTTTTGTGTTTGACATCAAGACCAGTGAACGCACCTTTTACCTGGTGGCTGAG
ACAGAAGAGGACATGAATAAGTGGGTCCAGAGCATCTGCCAGATCTGTGGCTTCAATCAG
GCTGAGGAGAGCACAGACTCCCTGAGAAATGTTTCCTCAGCCGGTCATGGCCCCGCTCT
TCTCCAGCTGAGCTCAGCAGCTCTAGCCAGCACCTTCTCCGAGAGCGCAAGTCTCAGCC
CCATCACACTCCAGCCAGCCAACCTGTTCACGTTTGAACCCCTGTGTCAAACCACATG
CAGCCCACCTTGCCACCAGCGCACCTCAGGAGTATCTCTACTTGCACCAGTGCATAAGC
CGAAGAGCAGAAAATGCAAGGAGTGCCAGCTTCTCTCAGGGCACCAGAGCCTCTTTTCTC
ATGAGGAGTGACACAGCTGTACAAAACTTGCCAGGGCAATGGACACTGTGTCAACGGG
ATCAGTGGTCAAGTCCATGGCTTCTATAGCCTTCCAAGCCGAGCCGGCACAATACAGAA
TTCAGAGACAGTACCTACGACCTCCCCCGAGCCTGGCCTCCCATGGCCACACCAAGGGC
AGCCTCACAGGCTCCGAGACAGATAATGAGGATGTGTACACCTTCAAGACGCCCAGCAAC
ACCCTGTGCAGGGAGTTTGGGGACCTCCTGGTAGACAATATGGATGTTCCGGCCACCCCA
CTCTCAGCCTACCAGATCCCTAGGACATCACTCTGGACAAAAACCACAATGCCATGACA
GTGGCCACTCCTGGGGACTCAGCCATAGCTCCCCACCCCGCCCCCAAGCCAAGTCAAG
GCAGAAACACCTCGATGGGGCAGTCTCAGCAGAGACCCCAATCAGTAAAAATAGCAGA
TCTGTGCTGCCACCATCCCCAGACGCAACACCCTCCCTGCAATGGACAACAGCCGACTT
CACCGAGCTTCTTCTGTGAGACTACGAGTACCCACAGCGTGGTGGAGAGAGTGCAGGC
CGGTCTGCTGAATCCATGAGTGATGGAGTCGGCTCTTTCTGCCAGGGAAAATGATTGTG
GGCCGATCGGACAGCACCAATTCTGAAGACAATATGTGCCCATGAATCCAGTTCTTCC
ACCCTGTTGGCCATGGAACGAGCAGGTGATAATCCCAGAGCGTCTACATCCCAATGAGC
CCAGGGGGCCCATCACTTTGACTCACTTGGCTACCCATCAACAACCCTTCTGTGCACCGA
GGCCCCAGCAGAGGAAGTGAATTCAGCCACCCCTGTCAACCGCAACCTCAAACCTGAT
CGGAAAGCAAAGCCAACACCCTTGACCTGAGGAACAACACCGTCATCGATGAATCCCC
TTCAAGTCACTATCACCAAGTCTTGGTCTAGGGCCAACCACACCTTCAACTCCAGCTCC
TCCAGTACTGCCGCCCATCTCCACCCAGAGCATCACCAGCACAGACTCAGGAGACAGC
GAAGAGAACTATGTCCCTATGCAAAACCCAGTGTCTGCATCTCCGTTCCAGTGGCAGC
AACAGTCTGCCCTAAGAAGAGCACCGGCAGCGTTGATTATCTGGCCCTGGACTTCCAG
CCGAGCTCCCCAAGCCCCACCGCAAGCCATCTACTTCATCCGTACCTCTGATGAGAAG
GTGGACTACGTTCAAGTGGACAAGGAGAAGACCCAGGCCCTGCAGAACACCATGCAGGAG
TGGACAGACGTGCGGCAGTCTCGGAGCCTTCCAAGGGTGCCAAGCTGTGA

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Clone variation with respect to NM\_080491.2  
 918 c=>t;1290 t=>c;2004 a=>g

**Restriction Sites:** Please inquire

**ACCN:** NM\_080491

**Insert Size:** 2700 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).

<b>OTI Annotation:</b>	There are 4 nucleotide differences between the OriGene clone and the NCBI reference ORF. OriGene considers these to be polymorphisms and to reflect the natural differences between individuals. These
<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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_080491.1</a></u> , <u><a href="#">NP_536739.1</a></u>
<b>RefSeq Size:</b>	6007 bp
<b>RefSeq ORF:</b>	2031 bp
<b>Locus ID:</b>	9846
<b>UniProt ID:</b>	<u><a href="#">Q9UQC2</a></u>
<b>Cytogenetics:</b>	11q14.1
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Chronic myeloid leukemia, Fc epsilon RI signaling pathway, Fc gamma R-mediated phagocytosis
<b>Gene Summary:</b>	<p>This gene is a member of the GRB2-associated binding protein (GAB) gene family. These proteins contain pleckstrin homology (PH) domain, and bind SHP2 tyrosine phosphatase and GRB2 adapter protein. They act as adapters for transmitting various signals in response to stimuli through cytokine and growth factor receptors, and T- and B-cell antigen receptors. The protein encoded by this gene is the principal activator of phosphatidylinositol-3 kinase in response to activation of the high affinity IgE receptor. Two alternatively spliced transcripts encoding different isoforms have been described for this gene. [provided by RefSeq, Nov 2009]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (a).</p>