

## Product datasheet for **SC303054**

### **BAI1 (ADGRB1) (NM\_001702) Human Untagged Clone**

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids                            |
| Product Name:             | BAI1 (ADGRB1) (NM_001702) Human Untagged Clone |
| Tag:                      | Tag Free                                       |
| Symbol:                   | BAI1   |
| Synonyms:                 | BAI1; GDAIF                                    |
| Mammalian Cell Selection: | None   |
| Vector:                   | <u>pCMV6-XL5</u>                               |
| E. coli Selection:        | Ampicillin (100 ug/mL)                         |

**Fully Sequenced ORF:** >OriGene ORF sequence for NM\_001702 edited  
 ATGAGGGGCCAGGCCCGCCCGGGCCCGTCTGGATCCTCGCCCGCTGCTACTGCTG  
 CTGCTGTGCTGGGACGCCCGCGCGGGCGCCCGGAGCAGACGCGGGGCCCGGGCC  
 GAGCCGTGCGCCACGCTGGTGCAGGAAAGTTCTTCGGCTACTTCTCCGCGGCCGCGTG  
 TTCCCGGCCAACGCTCGCGCTGCTCCTGGACGCTACGCAACCCGGACCCGCGGCGCTAC  
 ACTCTCTACATGAAGGTGGCAAGGCGCCCGTGCCTGCAGCGGCCCGCGCGGTGCGC  
 ACCTACCAGTTCGACTCCTTCTCGAGTCCACGCGCACCTACCTGGGCGTGGAGAGCTTC  
 GACGAGGTGCTGCGGCTCTGCGACCCCTCCGACCCCTGGCCTTCTGCAGGCCAGCAAG  
 CAGTTCCTGCAGATGCGGCGCCAGCAGCCGCCAGCAGCAGGGCTCCGGCCCCGGCC  
 GGGCCCGCGGGCCACCGACGACTTCTCCGTGGAGTACCTGGTGGTGGGGAACCGCAAC  
 CCCAGCCGTGCCCTGCCAGATGCTGTGCCGCTGGCTGGACGCGTGTCTGGCCGTAGT  
 CGCAGCTCGACCCCTGCGGGATCATGCAGACCCCTGCGCCTGCCTGGCGGCGAGGCG  
 GCGCGCCCTGCCGCGGACCCCTGGCCCCCGCGGGGATGTCTGCTTGAGAGATGCGGTG  
 GCTGGTGGCCCTGAAAAGTGCCTCACCAGCCTGACCCAGGACCGGGGCGGGCACGGCGCC  
 ACAGGGCGCTGGAAGCTGTGGTCCCTGTGGGGCGAATGCACGCGGGACTGCGGGGAGGC  
 CTCCAGACGCGGACGCGCACCTGCCTGCCCGCGCCGGGCGTGGAGGGCGGCGGCTGCGAG  
 GGGGTGCTGGAGGAGGTGCGCAGTGCAACCGGAGGCTGCGGCCCGCTGGGCGCACC  
 AGCTCCCGGAGCCAGTCCCTGCGGTCCACAGATGCCCGGCGCGGAGGAGCTGGGGAC  
 GAGCTGCAGCAGTTTGGGTTCCAGCCCCAGACCGGTGACCCAGCAGCCGAGGATGG  
 TCCCGTGGAGCGTGTGCTCCAGCACCTGCGGGGAGGGCTGGCAGACCCGACGCGCTTC  
 TGCGTGTCTCCTCCTACAGCACGAGTGCAGCGGACCCCTGCGGAGCAGCGGCTGTGC  
 AACAACTCTGCCGTGTGCCAGTGCATGGTGCCTGGGATGAGTGGTGCCTGGAGCCTC  
 TGCTCCAGCACCTGTGGCCGTGGCTTTCGGGATCGCACGCGCACCTGCAGGCCCCCCAG  
 TTTGGGGCAACCCCTGTGAGGGCCCTGAGAAGCAAACCAAGTTCTGCAACATTGCCCTG  
 TGCCCTGGCCGGCAGTGGATGGAAGTGAATGAGTGGTTCGAGCTGGAGCGCCTGCTCC  
 GCCAGTGTCTCCAGGGCCGACAGCAGCGCACGCGTGAATGCAACGGGCTTCTACGGG  
 GGTGCGGAGTGCCAGGGCCACTGGGTGGAGACCCGAGACTGCTTCTGCAGCAGTGCCCA



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GTGGATGGCAAGTGGCAGGCCTGGGCGTCATGGGGCAGTTGCAGCGTCACGTGTGGGGCT  
 GGCAGCCAGCGACGGGAGCGTGTCTGCTCTGGGCCCTTCTTCGGGGGAGCAGCCTGCCAG  
 GGCCCCAGGATGAGTACCGGCAGTGGCGCACCCAGCGGTGTCCCAGCCCCATGAGATC  
 TGTGATGAGGACAACCTTTGGTGTGTGATCTGGAAGGAGACCCCAGCGGGAGAGGTGGCT  
 GCTGTCCGGTGTCCCCGAACGCCACAGGACTCATCTGCGACGGTGTGAGCTGGACGAG  
 GAAGGCATCGCCTACTGGGAGCCCCACCTACATCCGCTGTGTTCCATTGACTACAGA  
 AACATCCAGATGATGACCCGGGAGCACCTGGCCAAGGCTCAGCGAGGGCTGCCTGGGGAG  
 GGGGTCTCGGAGTTCATCCAGACTGGTGGAGATCTCTCAGGACGGGACCAGCTACAGT  
 GGGACCTGTGTCCACCATCGATGTCTGAGGAACATGACAGAGATTTTCCGGAGAGCG  
 TACTACAGCCCCACCCCTGGGGACGTACAGAACTTTGTCCAGATCCTTAGCAACCTGTTG  
 GCAGAGGAGAATCGGGACAAGTGGGAGGAGGCCAGCTGGCGGGCCCCAACGCCAAGGAG  
 CTGTTCCGGCTGGTGGAGGACTTTGTGGACGTATCGGCTTCCGCATGAAGGACCTGAGG  
 GATGCATACCAGGTGACAGACAACCTGGTTCTCAGCATCCATAAGCTCCCAGCCAGCGGA  
 GCCACTGACATCAGCTTCCCATGAAGGGCTGGCGGGCCACGGGTGACTGGGCCAAGGTG  
 CCAGAGGACAGGGTCACTGTGTCCAAGAGTGTCTTCCACGGGGCTGACAGAGGCCGAT  
 GAAGCATCCGTGTTTGTGGTGGGACCCGTGCTCTACAGGAACCTGGGCAGCTTCCGTGCC  
 CTGCAGAGGAACACGACCGTCTGAATTCTAAGGTGATCTCCGTGACTGTGAAACCCCCG  
 CCTCGCTCCCTGCGCACACCCCTGGAGATCGAGTTTGCCACATGTATAATGGCACCACC  
 AACCAGACCTGTATCCTGTGGGATGAGACGGATGTACCCTCCTCCTCCGCCCCCCCGCAG  
 CTCGGGCCCTGGTGTGGCGGGCTGCCGACGGTGCCTTCGACGCCCTCCGGACGCGC  
 TGCTCTGTGACCGGCTCTCCACCTTCGCCATCTTAGCCAGCTCAGCGCCGACGCGAAC  
 ATGGAGAAGGCGACTCTGCCGTGGTGACGCTCATCGTGGGCTGTGGCGTGTCTCTCTC  
 ACCCTGCTCATGCTGGTATCATCTACGTGTCGGTGTGGAGGTACATTGCTCAGAGCGT  
 TCTGTCTCCTCATCAACTTCTGCCTGTCCATCATCTCCTCAATGCCCTCATCCTCATC  
 GGGCAGACCCAGACCCGCAACAAGGTGGTGTGCACGCTGGTGGCCGCTTCTGCACTTC  
 TTCTTCTGTCTCCTTCTGCTGGGTGCTCACCGAGGCCTGGCAGTCTACATGGCGGTG  
 ACGGGCCACCTCCGGAACCGCTCATCCGAAGCGCTTCTCTGCCTGGGCTGGGGGCTC  
 CCTGCACTGGTTGTGGCCATTTCTGTGGGATTCACCAAGGCCAAAGGTACAGCACCATG  
 AACTACTGCTGGCTCTCCCTGGAGGGGGGACTGCTCTATGCCTTCGTGGGACCTGCCGT  
 GCCGTTGTGCTGGTGAACATGGTCAATGGGATCCTGGTGTCAACAAGCTCGTGTCCAAA  
 GACGGCATCACGACAAGAAGCTGAAGGAGCGGGCAGGGGCTCCCTGTGGAGCTCCTGC  
 GTGGTGTGCCGCTGCTGGCGTGACCTGGATGTCCGGTGTGCTCGCCGTACCGACCCG  
 CGCTCCGCCCTTTCAGATCCTTTCGCTGTCTTCGACTCGCTGGAGGGCTTCGTATC  
 GTCATGGTGAAGTGTATCCTCCGTAGAGAGGTCCAGGACGCTGTGAAATGCCGTGTGGTT  
 GACCGGCAGGAGGAGGGCAACGGGGACTCAGGGGGCTCCTTCCAGAACGGCCACGCCAG  
 CTCATGACCGACTTCGAGAAGGACGTGGATCTGGCCTGTAGATCAGTGTGAACAAGGAC  
 ATCGCGGCTGCCGACTGCCACCATCACGGGCACACTGAAGCGGCCGTCTTGCCTGAG  
 GAGGAGAAGCTGAAGCTGGCCATGCCAAGGGGCCGCCACCAATTTCAACAGCCTGCCG  
 GCCAACGTGTCCAAGCTGCACCTGCACGGCTCACCCGCTATCCCGGGGGGCCCTGCC  
 GACTTCCCAACCACTCACTGACCTCAAGAGGGACAAGGCGCCCAAGTCTCCTTCGTC  
 GGTGACGGGGACATCTTCAAGAAGCTGGACTCGGAGCTGAGCCGGGCCAGGAGAAGGCT  
 CTGGACACGAGCTACGTGATCCTGCCACGGCCACGGCCACGCTGCGGCCCAAGCCAAAG  
 GAGGAGCCCAAGTACAGCATCCACATTGACCAGATGCCGACAGCCCGCTCATCCACCTC  
 AGCACGGCCCCGAGGCCAGCCTCCCCGCCGACGCCGCCCTCCCGCCAGCCCCCAGC  
 GGCGGGCCCCCGAGGCCACCCCTGCCAGCCCCACCGCTCCGCCCCACCGCCACCA  
 CCTCCCCAGCAGCCCTGCCCCACCGCCAATCTGGAGCCGGCACCCCCAGCCTGGGG  
 GATCCCCGGGAGCCTGCCGCCATCCGGGACCCAGCACGGGGCCAGCACCAAGAAGCAG  
 AATGTCCGCCACCTTGTCTGTGAGCTCCCTGGAGCGCGGAAGTCCGCGGTATGCAGAACTG  
 GACTTTGAGAAGATCATGCACACCCGGAAGCGGCACCAAGACATGTTCCAGGACCTGAAC  
 CGGAAGCTGCAGCACGCAGCGGAGAAGGACAAGGAGGTGCTGGGGCCGGACGCAAGCCG  
 GAAAAGCAGCAGACGCCAACAAAGAGCCCTGGGAGAGCCTCCGGAAGCCACGGGACG  
 CCCACGTGGGTGAAGAAGGAGCTGGAGCCGCTGCAGCCGTGCGCGCTGGAGCTTCGCAGC

GTGGAGTGGGAGAGGTCCGGCGCCACGATCCCGCTGGTGGGCCAGGACATCATCGACCTC  
CAGACCGAGGTCTGA

|                               |   |
|-------------------------------|---|
| <b>Restriction Sites:</b>     | Please inquire  |
| <b>ACCN:</b>                  | NM_001702   |
| <b>Insert Size:</b>           | 4800 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>OTI Annotation:</b>        | The ORF of this clone has been fully sequenced and found to be a perfect match to NM_001702.1.  |
| <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_001702.1</a></u> , <u><a href="#">NP_001693.1</a></u>   |
| <b>RefSeq Size:</b>           | 5535 bp   |
| <b>RefSeq ORF:</b>            | 4755 bp   |
| <b>Locus ID:</b>              | 575   |
| <b>UniProt ID:</b>            | <u><a href="#">O14514</a></u>   |
| <b>Cytogenetics:</b>          | 8q24.3  |
| <b>Protein Families:</b>      | Druggable Genome, Transmembrane   |
| <b>Protein Pathways:</b>      | p53 signaling pathway   |

**Gene Summary:**

Angiogenesis is controlled by a local balance between stimulators and inhibitors of new vessel growth and is suppressed under normal physiologic conditions. Angiogenesis has been shown to be essential for growth and metastasis of solid tumors. In order to obtain blood supply for their growth, tumor cells are potently angiogenic and attract new vessels as results of increased secretion of inducers and decreased production of endogenous negative regulators. BAI1 contains at least one 'functional' p53-binding site within an intron, and its expression has been shown to be induced by wildtype p53. There are two other brain-specific angiogenesis inhibitor genes, designated BAI2 and BAI3 which along with BAI1 have similar tissue specificities and structures, however only BAI1 is transcriptionally regulated by p53. BAI1 is postulated to be a member of the secretin receptor family, an inhibitor of angiogenesis and a growth suppressor of glioblastomas [provided by RefSeq, Jul 2008]