

## Product datasheet for RN217658

### Bai1 (NM\_001170597) Rat Untagged Clone

#### Product data:

Product Type: Expression Plasmids  
Product Name: Bai1 (NM\_001170597) Rat Untagged Clone  
Tag: Tag Free  
Symbol: Bai1  
Vector: pCMV6-Entry (PS100001)  
E. coli Selection: Kanamycin (25 ug/mL)  
Cell Selection: Neomycin  
Fully Sequenced ORF: >RN217658 representing NM\_001170597  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCCGGATCGCC

ATGAGGGGCCAGGCTGCTGCCCCGGGCCCCATCTGGATCCTTGCTCCACTCCTGCTGTTACTATTGCTAC  
TGGGGCGCTGGGCACGTGCTGCCTCTGGGGCAGACATAGGGCCTGGGACAGAGCAGTGCACCACATTGGT  
GCAGGGCAAGTTCTTCGATACTTCTCCGCGGCTGCTGTGTTCCAGCCAACGCCCTCACGCTGCTCTTGG  
ACTCTTCGCAACCCGGACCCTCGTCGTTACACGCTCTACATGAAGGTGGCCAAGGCACCTGCACCCTGCA  
GCGGCCCTGGCCGAGTTCGCACCTACCAGTTTCTGACTCTTTCTTGAATCCACGCGCACCTACCTGGGTGT  
GGAGAGCTTTGACGAAGTTCTGCGGCTCTGCGATCCCTCTGCACCCTAGCCTTCTGCAGGCCAGCAAA  
CAGTTCCTACAGATGCAGCGCCAACAGCCACCCCAAGATGGTGACCTTGGTCCCCAGGGCTCTGGTGACG  
ACTTCTCTGTGGAGTACCTGGTGGTGGCAATCGCAACCCAGCCAGCTGCCTGTCAGATGCTGTGCCG  
TTGGCTGGATGCCTGTCTAGCTGGCAGCCGAGCTCACACCCTGTGGCATCATGCAGACTCCCTGTGCC  
TGCTGGGTGGAGAAGCTGGAGACTGCTTCCAGCCCTTGGTCCCCGTGGGGACGTCTGCTTGAGAG  
ACGGCGTAGCTGGTGGCCCTGAGAACTGCCTCACCAGCCTGACCCAGGACCGAGGTGGGCAGGGCTCAGC  
AGGTGGCTGGAACTGTGGTCTTGTGGGGCAATGTACGCGGGACTGCGGGGGAGGCCTACAACTCGA  
ACCCGCACTTGCTCGCCACCCTTGGCGTGGAGGGCAGAGGCTGTGAGGGCGTTCTGGAAGAAGGCCGCC  
TGTGCAATCGCAAGGCCCTGCGGTCCCCTGGGCGCACCAGCTCACGGAGCCAGTCCCTGAGGTCCACGGA  
TGCCCCGGCGTCTGAGGAGTTTGGGGATGAGCTGCAACAGTTCGGGTTCATCCCCCAGACTGGTGAC  
CCAGCAGCTGAGGAGTGGTCCCCATGGAGCGTATGCTCCAGCACCTGTGGCAGGGATGGCAGACCCGTA  
CGCGCTTCTGCGTGTATCCTCGTACAGTACTCAGTGCAGTGGACCTCTGAGGGAGCAGCGGCTCTGCAA  
CAACTCAGCAGTGTGCCAGTGCATGGAGCCTGGGATGAGTGGTACCCTGGAGCCTCTGCTCCAGTACC  
TGTGGCCGTGGCTTCCGTGACCTACTCGCACTTGCAGGCCCTCAGTTTGGAGCAACCCCTGTGAGG  
GTCCGGAGAAGCAACCAAGTTCTGCAACATTGCCCTGTGCCCTGGCCGGCAGTGGACGAACTGGAA  
TGAATGGTCCAGCTGGAGCACCTGCTCTGCCAGTTGCTCCCAAGGCCGCCAGCAACGACCCGGGAGTGC  
AATGGTCTTCTATGGGGTGGCAGTGGCAGGGCCACTGGGTGGAGACTCGAGACTGCTTCTGCAGC  
AATGCCAGTGGACGGCAAATGGCAGGCCTGGGCATCATGGGGCAGCTGCAGCGTACGTGTGGAGGTGG  
AAGCCAGCGACGGGAGCGTGTCTGCTCTGGACCTTTCTTGGGGAGCAGCTGCCAGGGCCCCAAGAT



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GAGTACCGACAGTGTGGCGCTCAGCGATGTCCCGAGCCCCATGAGATTTGTGATGAGGACAACCTTTGGGG  
 CCGTGGTCTGGAAGGAGACCCAGCTGGAGAGGTGGTGCAGTCCGGTGTCCCGCAATGCCACAGGCT  
 TATCCTGCGCCGCTGTGAGCTGGACGAGGAGGCATCGCCTTCTGGGAGCCACCCACCTACATCCGCTGT  
 GTCTCCATTGACTACCGAACATCCAGATGATGACCCGAGAGCACCTGGCGAAGGCGCAGCGGGGCTGC  
 CAGGGGAGGGGTCTCAGAGGTATCCAGACACTGCTGGAGATCTCACAGGATGGCACCAGCTACAGCGG  
 CGACCTGCTCCACCATCGATGTCTGAGGAACATGACAGAGATCTCCGAGGGTACTATAGCCCC  
 ACACCCGGGGATGTGCAGAACCTTTGCCAGATCATCAGCAACCTGCTGGCGGAGGAGAACCCGGACAAGT  
 GGGAGGAGGCACAGCTGATGGGCCCAACGCCAAGGAGCTCTTCGACTGGTGAAGACTTTGTGGATGT  
 CATCGGCTTCCGCATGAAGGATTTGAGGGATGCCTACCAGGTGACAGACAATCTGGTGTGCTCAGCATCCAC  
 AAGCTTCCAGCCAGTGGGGCCACCAGCATCAGTTTCCCTATGAAGGGCTGGCGTGCCTGAGACTGGG  
 CCAAGGTGCCAGAGGACAGGGTACCCTGTCCAAGAGTGTGTTTTCCACAGGGCTGGCAGAAGCTGACGA  
 TTCATCTGTGTTCTGTTGGTACTGTGCTCTACCGAACTTGGGAGCTTCTAGCCCTGCAGAGGAAC  
 ACAACTGTCTCAACTCTAAGTCTATCCGTGACTGTGAAGCCCCACCTCGATCGCTCTCACACCT  
 TGGAGATCGAGTTCGCCACATGTACAATGGCACCACCAACCAGACTTGTATCCTGTGGGATGAGACAGA  
 TGGACCCTCCTCCTCGCCCCCGCAGCTCGGGCCTGGTGTGGCGGGCTGCCGCACGGTGCCTC  
 GATGCCCTCCGGACGCGCTGCCTGTGTGACCGGCTCTCCACCTTCCGCATCTTAGCCAGCTCAGCGCCG  
 ACGCGACCATGGATAAGGTGACCGTGCCTCTGTGACGCTCATCGTGGGCTGTGGCGTGTCTTCCCTCAC  
 CCTGCTCATGCTGGTATCATCTACGTGTCTGTGTGGAGGTACATTTCGCTCAGAGCGGTCCGTATCCTC  
 ATCAACTTCTGCCTGTCCATCATCTCCTCTAATGCCCTCATTCTATTGGGCAGACCCAGACCCGCAACA  
 AGGTTGTGTGCACACTGGTGGCTGCCTTTTGCCTTCTTCTTCTGCTCATTCTGCTGGGTGCTCAC  
 CGAGGCTGGCAATCCTACATGGCTGTACCGGCCGCTCCGGAGCCGGCTCGTCCGAAGCGCTTCTC  
 TGCTGGGCTGGGGCTCCCTGCGTGGTGGTGGCCATTTCTGTGGGATCACCAAGGCCAAGGGGTACA  
 GCACCTGAACATTTGCTGGCTCCTCCCTGGAGGGGGACTTCTGTATGCCTTCTGTTGGGACCGGCTGCT  
 AGTTGTGCTGGTGAACATGGTGTGATCGGGATCCTGGTGTTCACCAAGCTCGTGTCCAAGGACGGCATCAG  
 GACAAGAAGCTGAAGGAGCGGGCAGGGGCTCCCTGTGGAGCTCCTGCGTGGTGTGCGCTGTGGCGC  
 TGACCTGGATGTCTGCTGTGCTGTGTCACCGACCGCCGCTCCGCCCTTCCAGATCCTTCTGCTGT  
 CTTGACTCACTGGAGGGCTTCGTATCGTGTGGTGCCTGCTGCAAGAGAGGTCCAGGATGCT  
 GTGAAGTGTGCTGTGGTGTGATCGACAAGAGGAGGGCAACGGGGACTCGGGGGCTCCTCCAGAACGGCC  
 ACGCTCAGCTCATGACCGACTTTGAGAAGGATGTGGATCTGGCCTGTAGATCAGTGTGAACAAAGACAT  
 TGCAGCCTGCCGACGGCAACTATCACAGGTACCTTCAAGCGACCATCACTGCCTGAAGAGGAGAAGATG  
 AAGCTGGCCAAGGGCCACCCCCACCTTCAACAGCCTACCAGCTAATGTGTCCAAGCTGCACCTGCACG  
 GTTACCCCGCTACCCCGTGGGCCACTGCCTGACTTCCCAACCACTCACTCACCTTAAAAAGGACAA  
 GGCCCCAAGTCTCTTTATTGGTGTGGGGACATCTTAAAGAACTGGACTCTGAGCTGAGCCGGGCC  
 CAGGAGAAGGCTCTGGACACGAGCTACGTGATCCTGCCACGGCCACGGCCACACTCCGGCCAAACCCA  
 AGGAGGAACCCAAATACAGCATCAACATTGACCAGATGCCCAAAACCCGACTCATCCACCTTAGCATGGC  
 GCCCGACGCCAGCTTCCCTACCCGAAGCCACCTGCCCGTGGAGCCCAAGGTTGCACCCCTGAGGTG  
 CCCCTGTCCAGCCACCACCACCTCCACCACCCCTCCACCCCAACAGCCATAACCCACCACCT  
 CCCTGGAGCCTGCACCTCCAGCCTGGGGACACAGGGGAGCCTTCGGCCACCCAGGACCCAGTTCAGG  
 TGCTGGGACCAAGAATGAGAACGTGGCCACCTTGTGAGTGTGCTTGGAGCGGGGAAATCACGGTAT  
 GCAGAACTGGACTTCGAGAAGATCATGCACACAGGAGGACACAGGACATGTTCCAGGACCTGAACC  
 GGAAGCTGCAGCATGCGCTGAGAAGGAGAAGGAGGTGCCAGGCTAGACAACAAGCCAGAGAAGCAGCA  
 AACTCCCAACAAGAGGGCTGGGAGAGCCTCCGCAAGCCCATGGGACACCCGCTTGGGTAAGAAGGAG  
 CTGGAGCCACTGCCCCGCTCCTATTGGAGCTGCGGAGTGTGGAGTGGGAGAAGGCGGGTGCACCATCC  
 CACTGTTGGCCAGGACATCATCGACTCCAGACCGAGGCTGA

ACGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI  
 ACCN: NM\_001170597  
 Insert Size: 4734 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>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<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>	<a href="#">NM_001170597.2</a> , <a href="#">NP_001164068.2</a>
<b>RefSeq Size:</b>	5543 bp
<b>RefSeq ORF:</b>	4734 bp
<b>Locus ID:</b>	362931
<b>UniProt ID:</b>	<a href="#">C0HL12</a>
<b>Cytogenetics:</b>	7q34
<b>Gene Summary:</b>	Phosphatidylserine receptor which enhances the engulfment of apoptotic cells (By similarity). Also mediates the binding and engulfment of Gram-negative bacteria (By similarity). Stimulates production of reactive oxygen species by macrophages in response to Gram-negative bacteria, resulting in enhanced microbicidal macrophage activity (By similarity). In the gastric mucosa, required for recognition and engulfment of apoptotic gastric epithelial cells (By similarity). Promotes myoblast fusion (By similarity). Activates the Rho pathway in a G-protein-dependent manner (By similarity). Inhibits MDM2-mediated ubiquitination and degradation of DLG4/PSD95, promoting DLG4 stability and regulating synaptic plasticity (By similarity). Required for the formation of dendritic spines by ensuring the correct dendritic localization of PARD3 and TIAM1 (PubMed:23595754). Potent inhibitor of angiogenesis in brain and may play a significant role as a mediator of the p53/TP53 signal in suppression of glioblastoma (By similarity).[UniProtKB/Swiss-Prot Function]