

Product datasheet for **RR217658**

Bai1 (NM_001170597) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Bai1 (NM_001170597) Rat Tagged ORF Clone
 Tag: Myc-DDK
 Symbol: Bai1
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 Cell Selection: Neomycin
 ORF Nucleotide Sequence: >RR217658 representing NM_001170597
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAGGGGCCAGGCTGCTGCCCCGGGCCCCATCTGGATCCTTGCTCCACTCCTGCTGTTACTATTGCTAC
 TGGGGCGCTGGGCACGTGCTGCCTCTGGGGCAGACATAGGGCCTGGGACAGAGCAGTGCACCACATTGGT
 GCAGGGCAAGTTCTTCGATACTTCTCCGCGGTGCTGTGTTCCAGCCAACGCCTCACGCTGCTCTTGG
 ACTCTTCGCAACCCGGACCCTCGTCGTTACACGCTCTACATGAAGGTGGCCAAGGCACCTGCACCCTGCA
 GCGGCCCTGGCCGAGTTCGCACCTACCAGTTTCTGACTCTTTCTTGAATCCACGCGCACCTACCTGGGTG
 GGAGAGCTTTGACGAAGTTCTGCGGCTCTGCGATCCCTCTGCACCCTAGCCTTCTGCAGGCCAGCAAA
 CAGTTCCTACAGATGCAGCGCCAACAGCCACCCCAAGATGGTGACCTTGGTCCCCAGGGCTCTGGTGACG
 ACTTCTCTGTGGAGTACCTGGTGGTGGCAATCGCAACCCAGCCAGCTGCCTGTCAGATGCTGTGCCG
 TTGGCTGGATGCCTGTCTAGCTGGCAGCCGAGCTCACACCCTGTGGCATCATGCAGACTCCCTGTGCC
 TGCTGGGTGGAGAAGCTGGAGACTGCTTCCAGCCCCTTGGTCCCCGTGGGGACGTCTGCTTGAGAG
 ACGGCGTAGCTGGTGGCCCTGAGAACTGCCTCACCAGCCTGACCCAGGACCGAGGTGGGCAGGGCTCAGC
 AGGTGGCTGGAACTGTGGTCCCTGTGGGGCAATGTACGCGGGACTGCGGGGGAGGCCTACAACTCGA
 ACCCGCACTTGCTCGCCACCCTTGGCGTGGAGGGCAGAGGCTGTGAGGGCGTTCTGGAAGAAGGCCGCC
 TGTGCAATCGCAAGGCCTGCGGTCCCCTGGGCGCACCAGCTCACGGAGCCAGTCCCTGAGGTCCACGGA
 TGCCCCGGCTCGTGAGGAGTTTGGGGATGAGCTGCAACAGTTTGGGTCCCCTACCCCCAGACTGGTGAC
 CCAGCAGCTGAGGAGTGGTCCCCATGGAGCGTATGCTCCAGCACCTGTGGCGAGGGATGGCAGACCCGTA
 CGCGCTTCTGCGTGTATCCTCGTACAGTACTCAGTGCAGTGGACCTCTGAGGGAGCAGCGGCTCTGCAA
 CAACTCAGCAGTGTGCCAGTGCATGGAGCCTGGGATGAGTGGTACCCTGGAGCCTCTGCTCCAGTACC
 TGTGGCCGTGGTTCGCTGACCTACTCGCACTTGCAGGCCCTCAGTTTGGAGCAACCCCTGTGAGG
 GTCCGGAGAAGCAACCAAGTTCTGCAACATTGCCCTGTGCCCTGGCCGGCAGTGGACGAAACTGGAA
 TGAATGGTCCAGCTGGAGCACCTGCTCTGCCAGTTGCTCCCAAGGCCGCCAGCAACGACCCGGGAGTGC
 AATGGTCTTCTATGGGGTGGCAGTGGCAGGGCCACTGGGTGGAGACTCGAGACTGCTTCTGCAGC
 AATGCCAGTGGACGGCAATGGCAGGCCTGGGCATCATGGGGCAGCTGCAGCGTACGTTGGAGGTGG
 AAGCCAGCGACGGGAGCGTGTCTGCTCTGGACCTTTCTTGGGGAGCAGCCTGCCAGGGCCCCAAGAT



[View online »](#)

GAGTACCGACAGTGTGGCGCTCAGCGATGTCCCGAGCCCCATGAGATTTGTGATGAGGACAACTTTGGGG
 CCGTGGTCTGGAAGGAGACCCAGCTGGAGAGGTGGCTGCAGTCCGGTGTCCCGCAATGCCACAGGCC
 TATCCTGCGCCGCTGTGAGCTGGACGAGGAGGGCATCGCCTTCTGGGAGCCACCCACCTACATCCGCTGT
 GTCTCCATTGACTACCGGAACATCCAGATGATGACCCGAGAGCACCTGGCGAAGGCGCAGCGGGGGCTGC
 CAGGGGAGGGGGTCTCAGAGGTATCCAGACACTGCTGGAGATCTCACAGGATGGCACCAGCTACAGCGG
 CGACCTGCTCTCCACCATCGATGTCTGAGGAACATGACAGAGATCTTCCGAGGGTACTATAGCCCC
 ACACCCGGGGATGTGCAGAACTTTGCCAGATCATCAGCAACCTGCTGGCGGAGGAGAACCAGGCAAGT
 GGGAGGAGGCACAGCTGATGGGCCCAACGCCAAGGAGCTCTTTCGACTGGTGAAGACTTTGTGGATGT
 CATCGGCTTCCGCATGAAGGATTTGAGGGATGCCTACCAGGTGACAGACAATCTGGTGTCTCAGCATCCAC
 AAGCTTCCAGCCAGTGGGGCCACCAGCATCAGTTTCCCTATGAAGGGCTGGCGTGCCTGAGACTGGG
 CCAAGGTGCCAGAGGACAGGGTACCCTGTCCAAGAGTGTGTTTTCCACAGGGCTGGCAGAAGCTGACGA
 TTCATCTGTGTTCTGTTGGTACTGTGCTCTACCGAACTTGGGAGCTTCTAGCCCTGCAGAGGAAC
 ACAACTGTCTCAACTCTAAGGTCTCTCCGTGACTGTGAAGCCCCACCTCGATCGCTCTCACACCT
 TGGAGATCGAGTTCGCCACATGTACAATGGCACCACCAACCAGACTTGTATCCTGTGGGATGAGACAGA
 TGGACCCTCCTCCTCGCCCCCGCAGCTCGGGCCCTGGTGTGGCGCGGCTGCCGCACGGTGCCTC
 GATGCCCTCCGGACGCGCTGCCTGTGTGACCGGCTCTCCACCTTCCGCATCTTAGCCAGCTCAGCGCCG
 ACGCGACCATGGATAAGGTGACCGTGCCTCTGTGACGCTCATCGTGGGCTGTGGCGTGTCTTCCCTCAC
 CCTGCTCATGCTGGTATCATCTACGTGTCTGTGTGGAGGTACATTTCGCTCAGAGCGGTCCGTATCCTC
 ATCAACTTCTGCCTGTCCATCATCTCCTCTAATGCCCTCATTCTCATTGGGCAGACCCAGACCCGCAACA
 AGGTTGTGTGCACACTGGTGGCTGCCTTTTGCCTTCTTCTTCTGTCTCATTCTGTGGGTGCTCAC
 CGAGGCCGTGGCAATCCTACATGGCTGTACCGGCCGCTCCGGAGCCGGCTCGTCCGAAGCGCTTCTC
 TGCTGGGCTGGGGCTCCCTGCGTGGTGGTGGCCATTTCTGTGGGATTCACCAAGGCCAAGGGGTACA
 GCACCTGAACATTTGCTGGCTCTCCCTGGAGGGGGACTTCTGTATGCCTTCTGTTGGGAGGCTGCTGC
 AGTTGTGCTGGTGAACATGGTGTATCGGGATCCTGGTGTTCACCAAGCTCGTGTCCAAGGACGGCATCAG
 GACAAGAAGCTGAAGGAGCGGGCAGGGGCTCCCTGTGGAGCTCTGCGTGGTGTGCGCGTGTGGCGC
 TGACCTGGATGTCTGCTGTGCTGTGACCGACCGCGCTCCGCCCTTCCAGATCCTTCTCGCTGT
 CTTGACTCACTGGAGGGCTTCGTATCGTGTGGTGCCTGCTGCAAGAGAGGTCCAGGATGCT
 GTGAAGTGTGCTGTGGTGTAGATCGACAAGAGGAGGGCAACGGGGACTCGGGGGCTCCTCCAGAACGGCC
 ACGCTCAGCTCATGACCGACTTTGAGAAGGATGTGGATCTGGCCTGTAGATCAGTGTGAACAAAGACAT
 TGCAGCCTGCCGACGGCAACTATCACAGGTACCTTCAAGCGACCATCACTGCCTGAAGAGGAGAAGATG
 AAGCTGGCCAAGGGCCACCCCCACCTTCAACAGCCTACCAGCTAATGTGTCCAAGCTGCACCTGCACG
 GTTCACCCCGCTACCCCGTGGGCCACTGCCTGACTTCCCAACCATCACTCACCTTAAAAAGGACAA
 GGCCCCAAGTCTCTTTTATTGGTGTGGGGACATCTTAAAGAACTGGACTCTGAGCTGAGCCGGGCC
 CAGGAGAAGGCTCTGGACACGAGCTACGTATCCTGCCACGGCCACGGCCACACTCCGGCCCAAACCCA
 AGGAGGAACCCAAATACAGCATCAACATTGACCAGATGCCCAAACCCGACTCATCCACCTTAGCATGGC
 GCCCGACGCCAGCTTCCCTACCCGAAGCCACCTGCCCGTGGAGCCCAAGGTTGACCCCTGAGGTG
 CCCCTGTCCAGCCACCACCACCTCCACCACCCCTCCACCCCAACAGCCATAACCCACCACCT
 CCCTGGAGCCTGCACCTCCAGCCTGGGGACACAGGGGAGCCTTCGGCCACCCAGGACCCAGTTTCCAGG
 TGCTGGACCAAGAATGAGAAGTGGCCACCTTGTGAGTGTGCTTGGAGCGGGGAAATCACGGTAT
 GCAGAAGTGGACTTCGAGAAGATCATGCACACAGGAGGACACAGGACATGTTCCAGGACCTGAACC
 GGAAGCTGCAGCATGCGGCTGAGAAGGAGAAGGAGGTGCCAGGCTAGACAACAAGCCAGAGAAGGAGCA
 AACTCCCAACAAGAGGGCTGGGAGAGCCTCCGCAAGCCCATGGGACACCCGCTTGGGTAAGAAGGAG
 CTGGAGCCACTGCCCCGCTCTCATTGGAGCTGCGGAGTGTGGAGTGGGAGAAGGCGGGTGCACCATCC
 CACTGTTGGCCAGGACATCATCGACTCCAGACCGAGGT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR217658 representing NM_001170597
 Red=Cloning site Green=Tags(s)

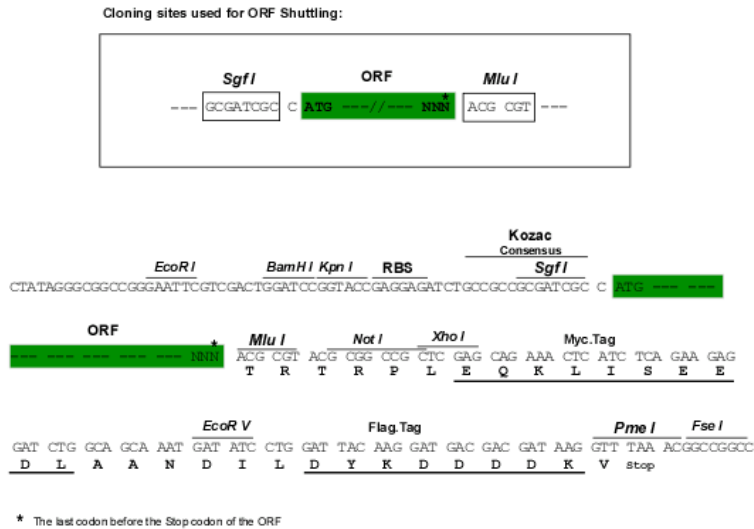
```
MRGQAAAPGIWILAPLLLLLLLLGRWARAASGADIGPGTEQCTTLVQGKFFGYFSAAAVFPANASRCSW
TLRNPDPRRYTL YMKVAKAPAPCSGPRVRTYQFDSFLESTRTYLVGESFDEVLRLCDPSAPLAFQASK
QFLQMQRQPPQDGLGPQSGDDF SVEYLVVGNRNP SHAACQMLCRWLDA CLAGSRSSHPCGIMQTPCA
CLGGEAGDTASSPLVPRGDVCLRDGVAGGPENCLTSLTQDRGGHGSAGGWKLWLSLWGECTRDCGGGLQTR
TRTCSPTLVGEGRGCEGVLEEGRLCNRKACGPTGRTSSRSQSLRSTDARRREEFGDELQQFGFSPQTD
PAAEESWPWSVCSSTCGEGWQTRTRFCVSSSYSTQCSGPLREQRLCNNSAVCPVHGAWDEWSPWSLCSST
CGRGFRDRTRTCRPPQFGGNPCEGPEKQTKFCNIALCPGRAVDGNWNEWSSWSTCSASCSQGRQRTREC
NGPSYGGAE CQHVVETRD CFLQQCPVDGKQAWASWGSCSVTCGGGSQRRERVC SGPF GGAACQGPQD
EYRQCGAQRCEPHEICDEDNFGAVVWKE TPAGEVAAVRCPRNATGLILRRCELDEEGIAFWEPTTYIRC
VSDYRNIQM TREHLAKAQRGLPGEGVSEVIQTLL EISQDGT SYSGDLLSTIDVLRNMTEIFRRAYYSP
TPGDVQNFVQII SNLLAEENRDKWE EAQLMGN AKELFRLVEDFVDVIGFRMKDLRDAYQVTDNLVLSIH
KLPASGATDISFPMKGWRATGDWAKVPEDRVTVSKSVFSTGLAEADSSVFVVGTVLYRNLGSLALQRN
TTVLNSKVISVTVKPPRSL LPLEIEFAHMYNGTTNQT CILWDET DGPSSSAPPQLGPWSWRGCRTPVL
DALRTRCLCDRLSTFAILAQLSADATMDKVTVP SVTLIVGCGVSSLTLLMLVIIYVSVWRYRSERSVIL
INFCLSIISSNALILIGQTQRNKVVCTLVA AFLHFFLSSFCWVLTEAWQSYMV TGR LRSRLVVRKFL
CLGWGLPALVVAISVGF T KAKGYSTMNYCWL SLEGLLYAFVGPAAAVLVNMVIGILVFNKLVSKDGIT
DKKLERAGASLWSSCVLPLLLALTWMSAVLAVTDRRSALFQILFAVFD SLEGFVIMVHCILRREVQDA
VKCRVVD RQE EGNDSGGSFQNGHAQLMTDFEKD VDLACRSVLNKDIAACRTATITGTFKRPSLPEEEKM
KLAKGPPPTFNSLPANVSKLHLHGSPRYPGGPLPDFPNHSLTKKDKAPKSSFIGDGDIFKKL DSEL SRA
QEKALDTSYVILPTATATLRPKPKEEPKYSINIDQMPQTRLIHL SMAPDASFPTRSPPAREPPGGAPPEV
PPVQPPPPPPPPPPPPPPQPIPPPPSLEPAPP SLGDTGEP SAHPGPSAGATKNENVA TL SVSSLERKRSRY
AELDFEKIMHTRKRHQDMFQDLNRKLQHAAEKEKEVPGVDNKPEKQQT P NKRAWESLRKPHGTPAWWKKE
LEPLPSPLELRSVEWEKAGATIPLVGQDIIDLQTEV
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

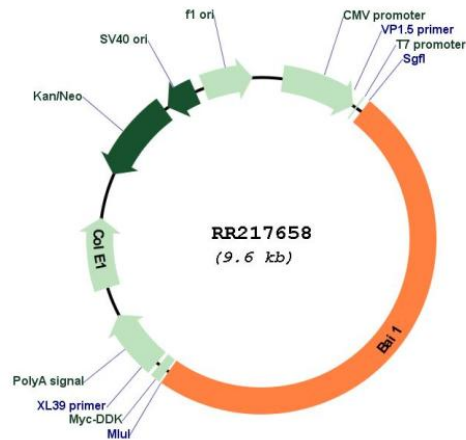
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001170597

ORF Size: 4731 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:

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_001170597.2, NP_001164068.2</u>
RefSeq Size:	5543 bp
RefSeq ORF:	4734 bp
Locus ID:	362931
UniProt ID:	<u>C0HL12</u>
Cytogenetics:	7q34
MW:	172.9 kDa
Gene Summary:	<p>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]</p>