

## Product datasheet for **RG202617**

### **BAIAP2L1 (NM\_018842) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	BAIAP2L1 (NM_018842) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	BAIAP2L1
Synonyms:	IRTKS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG202617 representing NM\_018842  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGTCCCGGGGGCCGAGGAGGTGAACCGGCTCACGGAGAGCACCTACCGAATGTTATGGAACAGTTCA  
 ATCCTGGGCTGCGAAATTTAATAAACCTGGGAAAAATTATGAGAAAGCTGTAAACGCTATGATCCTGGC  
 AGGAAAAGCCTACTACGATGGAGTGCCAAAGATCGGTGAGATTGCCACTGGGTCCTCCCGTGTCAACTGAA  
 CTGGGACATGTCTCATAGAGATTTCAAGTACCACAAGAACTCAACGAGAGTCTTGATGAAAAATTTTA  
 AAAAAATCCACAAAGAGATTATCCATGAGCTGGAGAAGAAGATAGAAGTCTGACGTGAAATATATGAACGC  
 AACTCTAAAAAGATACCAAACAGAACACAAGAATAAATTAGAGTCTTTGGAGAAATCCCAAGCTGAGTTG  
 AAGAAGATCAGAAGGAAAAGCCAAGGAAGCCGAAACGCACTCAAATATGAACACAAGAAATGAGTATG  
 TGGAGACCGTTACTTCTCGTCAGAGTGAATCCAGAAATTCATTGCAGATGGTTGCAAAGAGGCTCTGCT  
 TGAAGAGAAGAGCGCTTCTGCTTCTGGTTGATAAGCACTGTGGCTTTGCAAACCATACATTATTAT  
 CACTTACAGTCTGCAGAACTACTGAATTCGAAGCTGCCTCGGTGGCAGGAGACCTGTGTTGATGCCATCA  
 AAGTGCCAGAGAAAATCATGAATATGATCGAAGAAATAAAGACCCAGCCTCTACCCCGTGTCTGGAAC  
 TCCTCAGGCTTACCCATGATCGAGAGAAGCAATGTGGTTAGGAAAGATTACGACACCCCTTTCTAAATGC  
 TCACCAAAGATGCCCGCCGCTCCTTCAGGCAGAGCATATACCAGTCCCTTGATCGATATGTTAATAACC  
 CAGCCACGGCTGCCCGAATTCACAAAGGTAATAATTAACAGGTAATCCGAAGATCCCAAGTTTACA  
 GCGATCAGTTTCGGTTGCAACGGGACTGAACATGATGAAGAAGCAGAAAGTGAAGACCATCTTCCCGCAC  
 ACTGCGGGCTCCAACAAGACCTTACTCAGCTTTGCACAGGAGATGTCATCAGCTGCTCATCCCGGAGG  
 AGAAGGATGGCTGGCTCTATGGAGAACACGACGTGTCCAAGCGAGGGTTGGTTCCCGTGTGATACAC  
 GAAGTTGCTGGAAGAAAATGAGACAGAAGCAGTACCCTGCCACGCCAAGCCCAACACCATGAGAAGC  
 ATCAGCACCGTGAACCTGTCTGAGAATAGCAGTGTGTCATCCCCCACCAGACTACTTGAATGCTTGT  
 CCATGGGGCAGCTGCCGACAGGAGAGCAGATTCGGCCAGGACGACATCCACCTTTAAGGCCCGAGCTC  
 CAAGCCCGAGACCGCGCTCCTAACGATGCCAACGGGACTGCAAAGCCGCTTTTCTCAGCGGAGAAAAAC  
 CCCTTGGCACTGTGAACTCCGCCGACTGTGACGAATGATCGCTCGGCACCCATCATTCTGA

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – **GTTTAA**

**Protein Sequence:**

>RG202617 representing NM\_018842  
 Red=Cloning site Green=Tags(s)

MSRGPPEEVNRLTESTYRNVMEQFNPLRNLIINLGKNEYKAVNAMILAGKAYYDGVAKIGEIATGSPVSTE  
 LGHVLIEISSTHKKLNESLDENFKKFHKEIIHELEKKIELDVKYMNATLKRYQTEHKNKLESLEKSQAE  
 KKIRRKSSQGSRNALKYEHKEIEYVETVTSRQSEIQKFIADGCKEALLEEKRRFCFLVDKHCGFANHIHY  
 HLQSAELLNSKLPWQETCVDAIKVPEKIMNMIEEIKTPASTPVSQTPQASPMIERSNVVRKDYDLSKC  
 SPKMPPAPSGRAYTSPLIDMFNNPATAAPNSQRVNNSTGTSEDPSLQRSVSVATGLNMMKKQKVKTI  
 TAGSNKTLISFAQGDVITLLIPEEKDGLWLYGEHDVSKARGWFPSYTKLLEENETEAVTVPTPSPTPVRS  
 ISTVNLSENSVVIIPPDYLECLSMGAAADRRADSARTTSTFKAPASKPETAAPNDANGTAKPPFLSGEN  
 PFATVKLRPTVTNDRSAPIIR

**TRTRPLE** – GFP Tag – **V**

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_018842

**ORF Size:** 1533 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:** [NM\\_018842.5](#)

**RefSeq Size:** 2096 bp

**RefSeq ORF:** 1536 bp

**Locus ID:** 55971

**UniProt ID:** [Q9UHR4](#)

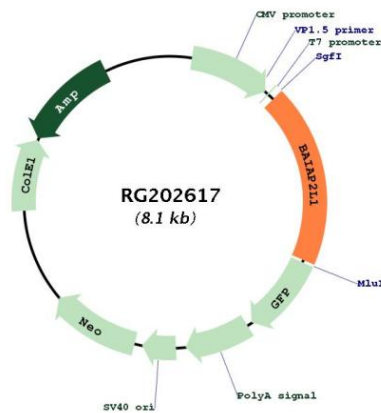
**Cytogenetics:** 7q21.3-q22.1

**Domains:** SH3

**Protein Families:** Druggable Genome

**Gene Summary:** This gene encodes a member of the IMD (IRSp53/MIM homology domain) family. Members of this family can be subdivided in two groups, the IRSp53-like and MIM-like, based on the presence or absence of the SH3 (Src homology 3) domain. The protein encoded by this gene contains a conserved IMD, also known as F-actin bundling domain, at the N-terminus, and a canonical SH3 domain near the C-terminus, so it belongs to the IRSp53-like group. This protein is the substrate for insulin receptor tyrosine kinase and binds to the small GTPase Rac. It is involved in signal transduction pathways that link deformation of the plasma membrane and remodeling of the actin cytoskeleton. It also promotes actin assembly and membrane protrusions when overexpressed in mammalian cells, and is essential to the formation of a potent actin assembly complex during EHEC (Enterohemorrhagic Escherichia coli) pedestal formation. [provided by RefSeq, Oct 2009]

**Product images:**



Circular map for RG202617