

Product datasheet for **RG214570**

BAIAP2 (NM_006340) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BAIAP2 (NM_006340) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	BAIAP2
Synonyms:	BAP2; FLAF3; IRSP53; WAML
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG214570 representing NM_006340
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTCTCTGTCTCGCTCAGAGGAGATGCACCGCTCACGGAAAATGTCTATAAGACCATCATGGAGCAGT
 TCAACCTAGCCTCCGGAACCTCATCGCCATGGGGAAGAATTACGAGAAGGCACTGGCAGGTGTGACGTA
 TGCAGCCAAAGGCTACTTTGACGCCCTGGTGAAGATGGGGGAGCTGGCCAGCGAGAGCCAGGGCTCCAAA
 GAACTCGGAGACGTTCTCTCCAGATGGCTGAAGTCCACAGGCAGATCCAGAATCAGCTGGAAGAAATGC
 TGAAGTCTTTTACAACGAGCTGCTTACGCAGCTGGAGCAGAAGGTGGAGCTGGACTCCAGGTATCTGAG
 TGCTGCGTGAAGAAATACCAGACTGAGCAAAGGAGCAAAGGCGACGCCCTGGACAAGTGTGAGGCTGAG
 CTGAAGAAGCTTCGGAAGAAGAGCCAGGGCAGCAAGAATCCTCAGAAGTACTCGGACAAGGAGCTGCAGT
 ACATCGACGCCATCAGCAACAAGCAGGGCAGCTGGAGAATTACGTGTCCGACGGCTACAAGACCGCACT
 GACAGAGGAGCGCAGGCGCTTCTGCTTCTGGTGGAGAAGCAGTGCGCCGTGGCCAAGAACTCCGCGGCC
 TACCCTCCAAGGCAAGGAGCTGCTGGCGCAGAAGCTGCCGCTGTGGCAACAGGCTGTGCCGACCCCA
 GCAAGATCCCGGAGCGCGCGGTGCAGCTCATGCAGCAGGTGGCCAGCAACGGCGCCACCTCCCCAGCGC
 CCTGTGCGCTCCAAGTCCAACCTGGTCAATTCGACCCCATTCGGGGGCAAGCCCTGCCGGTGCC
 CCCGAGCTGGCACCGTTCGTGGGGCGGATGTCTGCCAGGAGAGCACACCCATCATGAACGGCGTCACAG
 GCCCGGATGGCGAGGACTACAGCCCGTGGGCTGACCGCAAGGCTGCCAGCCAAATCCCTGTCTCTCTCC
 GCAGTCTCAGAGCAAGCTCAGCGACTCTACTCCAACACACTCCCGTGCGAAGAGCGTGACCCAAAA
 AACAGCTATGCCACCACCGAGAACAAGACTTCTCCTCGCTCGAGCTCCATGGCAGCCGGCCTGGAGCGCA
 ATGGCCGTATCGGGTGAAGGCCATCTTCTCCACGCTGCTGGGACAACAGCACCCCTCTGAGCTTCAA
 GGAGGGTGACCTCATTACCTGTCTGGTGCCTGAGGCCCGGATGGCTGGCACTACGGAGAGAGTGAGAAG
 ACCAAGATGCGGGCTGTTTTCCCTTCTCTACACCCGGTCTTGACAGCGATGGCAGTACAGGCTGC
 ACATGAGCTGCAGCAAGGGAAGAGCAGCAGCAGGGCAACCTCTGGACAAGGACGACCTGGCCATCCC
 ACCCCCCGATTACGGCGCCGCTCCCGGCCCTCCCGCCAGACGGCCAGCGGCTTCAAGCAGAGGCC
 TACAGTGTGGCCGTGCCGCTTCTCCAGGGCTGGATGACTATGGAGCGCGTCCATGAGCAGCGCC
 ATGTGGAAGTGCCAGATTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG214570 representing NM_006340
 Red=Cloning site Green=Tags(s)

MSLSRSEEMHRLTENYKTIMEQFNPSLRNFIAMGKNYEKALAGVTYAAKGYFDALVKMGELASESQGSK
 ELGDVLFQMAEVHRQIQNQLLEMLKSFHNELLTQLEQKVELDSRYLSAALKKYQTEQRSGDALDKCQAE
 LKKLRKKSQGSKNPQKYSDELQYIDAI SNKQGELENYVSDGYKTALTEERRRFLVEKQCAVAKNSAA
 YHSKGKELLAQKLPLWQACADPSKIPERAVQLMQQVASNGATLPSALSASKSNLVISDPVPGAKPLPVP
 PELAPFVGRMSAQESTPIMNGVTGPDGEDYSPWADRKAAPKSLSPQSQSKLSDSYSNTLPVRKSVTPK
 NSYATTENKTLPRSSMAAGLERNGMRVKAIFSHAAGDNSTLLSFKEGDLITLLVPEARDGWHYGESEK
 TKMRGWPFPSYTRVLDSDGSDRLHMSLQGGKSSSTGNLLDKDDLAI PPPDYGAASRAFPQAQTASGFKQRP
 YSVAVPAFSQGLDDYGARSMSSADVEVARF

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_006340

ORF Size: 1560 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_006340.3](#)

RefSeq Size: 2129 bp

RefSeq ORF: 1563 bp

Locus ID: 10458

UniProt ID: [Q9UQB8](#)

Cytogenetics: 17q25.3

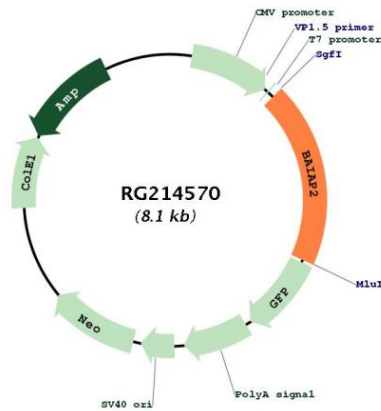
Domains: SH3

Protein Families: Druggable Genome

Protein Pathways: Adherens junction, Regulation of actin cytoskeleton

Gene Summary: The protein encoded by this gene has been identified as a brain-specific angiogenesis inhibitor (BAI1)-binding protein. This adaptor protein links membrane bound G-proteins to cytoplasmic effector proteins. This protein functions as an insulin receptor tyrosine kinase substrate and suggests a role for insulin in the central nervous system. It also associates with a downstream effector of Rho small G proteins, which is associated with the formation of stress fibers and cytokinesis. This protein is involved in lamellipodia and filopodia formation in motile cells and may affect neuronal growth-cone guidance. This protein has also been identified as interacting with the dentatorubral-pallidoluysian atrophy gene, which is associated with an autosomal dominant neurodegenerative disease. Alternative splicing results in multiple transcript variants encoding distinct isoforms.[provided by RefSeq, Jan 2009]

Product images:



Circular map for RG214570