

## Product datasheet for **MG210390**

### **Bach1 (NM\_007520) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Bach1 (NM_007520) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Bach1
Synonyms:	6230421P05Rik; AI323795
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide  
Sequence:

>MG210390 representing NM\_007520  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCCGCATCGCC

ATGTCTGTGAGTGAGAGTGCGGTATTTGCCTACGAGTCCCTCTGTGCATAGCACCAACGTCTTGCTCAGCC  
TCAATGACCAGCGGAAGAAGGATGTCCTGTGTGATGTGACTGTCCTGGTGAGGGCCAGCGGTTCCGAGC  
CCACCCTCGGTGCTGGCTGCGTGCAGCAGCTACTTCCACTCGAGAATCGTAGGCCAGACTGACGCAGAG  
CTCACCGTCACTGCCTGAAGAGGTAACGGTTAAAGGATTTGAACCTTTAATTCAGTTTGCCTACTG  
CCAAACTCATTTAAGTAAAGACAATGTTGACGAAGTGTGAGGTGTGGAGTTTCTAAGCGTACACAA  
TATCGAGGAATCCTGCTTCCAGTTTCTCAAGTTTAAAGTTTTGGACTCCACTTCAGAGCAGCAGGAATGC  
GCAAGAAAAAATGCTTCTCCTCACACTGTCAGAAAGCAGATTTAAATTTTCATTTTCAGAACAGAAAG  
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CAGGTGTGAGGCGAGTAAAAGCATCCCCCTCTCCAGGACAGTGTGAGTGTGAGCGTCCAGTCCCTG  
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TTGAACTGACAAGATCCGAACCTAGAAATCCGGTGTGAGAGATGTCCACTGCCTCTGTCAGCCAAA  
TGAGACCTCTGAACCTGAGTGTGTTTTGGGGAGCGCAGGGCTGTGCAGATTTACACGTGATTTAAAATGT  
GAAGGAATGAAGGCAGCCATGGAGAGTGAAGACACAGAGGGCCAGGATCCCTCCCCTCAGTGCCTCGAG  
AGCAGCCCAAGGGACACCCTTGCTCAGGATTCTGCAGGACCTCACGGGCTCTACTCCTTGTGAGCCTT  
ACACACATATGAGCAGTCAAGTGTGAGTGGCCTTGTGGGGTGCAGAGTAAAACCGTGAAGACAGAAAAG  
CCTCTGTGAGGCGCAGATGCCAGGACGAGAAGCCATCGAAAAATCAGGATTTATATCTGAAGTCTAGCA  
TGGGCCCTAAAGAAGACAGCAGCAGCCTTGCATCTGAGGATCGGAGTAGTGTGGAGCGAGAGGTGGCAGA  
GCACCTGGCCAAAGGCTTCTGGAGTGACATTTGCAGCACGGACTCGCCTTGCCAAATGCAGTTGTGCCCC  
ACTGTGGCCAAAGACGGCCAGAACAGGGCTACTCGCAAAGCGATCTGAGTGTCCCTGGTTGGGTATCA  
GGATCAGTGAGAGCCCCGAGCCAGGCCAGCGGACTTTCACAACTCTCAGTTCGGTCAACTGCCCTTTTAT  
CAGTACTCTGAGTTCGAAGGCTGCTCAAGCAACTTGAAATTTGAAACTACGATTATGTCTCGGAGCCT  
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ACAGCGAGTCTGTTCTGCCAGGAGCAGGACTGTGAGGTGAAGTGCCTTCAATGCCAACGGATAAT  
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ATCCATGACATCCGCAGAAGGAGTAAGAACAGAATCGCCGCGCAACGCTGTGCAAGAGGAAACTTGACT  
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CCACATTTCTGCAACGCTGGGGGAGACAAAGCAGAACCTGACCGGACTTTGTGAGCAGGTGTGCAAGGAA  
GCCGCCCTGAGCCCCGAGCAGATCCAGATCCTTGCCAAGTACTCGGCCTCCGACTGCCCGCTTTCCTTTT  
TAATTTCTGAGAAAGGAAAAAGTACTCCCGACGGCGAGCTTGCTTTTACATCGGTTTTTCAAGTGTGCTGA  
CGTGCCTCAACTGCACCACCTCCCTGTGGGCGAGGGAGCAGCGCGGCCAGCCAGGAGCTGGTGCAGGAG  
TCCCCGCAACCACCGCAGCTGCCCCAGAGCAGGCCACGCTGTTGGAACCCTGTGCGCAGAGTGTGGGA  
TCTCAGACTTCTGTCAGCAGATGTCTGACAAGTGCCTACTGACGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG210390 representing NM\_007520  
 Red=Cloning site Green=Tags(s)

MSVSESAVFAYESSVHSTNVLLSLNDQRKKDVLCDVTVLVEGQRFRAHRSVLAACSSYFHSRIVGQTD  
 AELTVTLPEEVTVKGFPELIQFAYTAKLILSKDNDEVCRCEVFLSVHNIIEESCFQFLKFKFLDSTSEQQEC  
 ARKKCFSSHCKADFKFSFSEQKDLEIDEADEFLEKRVQTPQCDSRRCQGSVKASPLQDSVVSQACQSL  
 CTDKDGALALPSLCPKYRKFQKAFGTDKIRTLESVGRDVHTASVQPNETSELECFGGAQGCADLHVILKC  
 EGMKAAMESEDTEGQDPSQCPAEQPQGTPLPQDSAGPHGLYSLALHTYEQSGDVAFAGVQSKTVKTEK  
 PLSRPDAQDEKPSNQDLYLKSSMGPKEDSSSLASEDRSSVEREVAEHLAKGFWSIDICSTDSPCQMLSP  
 TVAKDGPQGYRSECPWLGIRISESPEPGQRTFTTLLSSVNCPISTLSSEGCSSNLEIGNYDYVSEP  
 QQEPCPYACVISLGDSETDTEGDESECSAREQDCEVKLPFNAQRIISLRNDFQSLKMKHLTPEQLDC  
 IHDIRRRSKNRIAAQRCKRKLDCIQNLESEIEKLQSEKESLLKERDHIILSTLGETKQNL TGLCQQVCKE  
 AALSPEIQILAKYSASDCPLSFLISEKGKSTPDGELAF TSVF SVSDVPPTAPPCGRGSSAASQELVQE  
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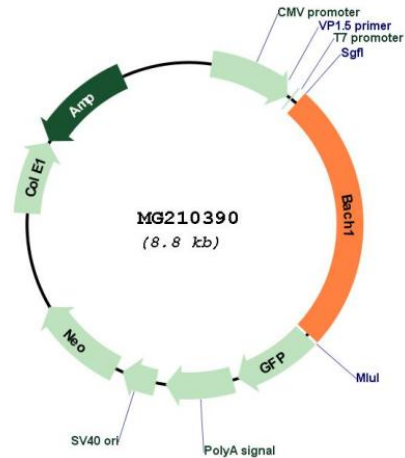
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



**Plasmid Map:**


**ACCN:** NM\_007520

**ORF Size:** 2217 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\\_007520.2](#), [NP\\_031546.1](#)

**RefSeq Size:** 5858 bp

**RefSeq ORF:** 2220 bp

**Locus ID:** 12013

UniProt ID: [P97302](#)

Cytogenetics: 16 C3.3

**Gene Summary:** Transcriptional regulator that acts as repressor or activator, depending on the context (PubMed:8887638, PubMed:19170764). Binds to NF-E2 DNA binding sites (PubMed:8887638, PubMed:19170764). Play important roles in coordinating transcription activation and repression by MAFK (PubMed:8887638). Together with MAF, represses the transcription of genes under the control of the NFE2L2 oxidative stress pathway (By similarity).  
[UniProtKB/Swiss-Prot Function]