

## Product datasheet for **MG224703**

### **Bach2 (NM\_001109661) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Bach2 (NM_001109661) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Bach2
Synonyms:	E030004N02Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG224703 representing NM\_001109661  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTCTGTGGATGAGAAGCCTGGCTCCCCATGTATGTATATGAGTCCACAGTCCACTGTGCCAACATCC  
 TCCTGGGCTCAATGACCAACGGAAGAAGGACATTCTCTGTGACGTGACGCTGATCGTGGAGAGGAAGGA  
 GTTCCGAGCCACCGGGCTGTGCTGGCCGCATGCAGTGAATACTTCTGGCAAGCACTGGTTGGACAGACG  
 AAAGATGACTTGGTGGTCACTTGCCTGAGGAGGTACGCGCCAGGGGCTTTGGGCCACTGCTACAGTTTG  
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 GGGAGCTGGCCAGTCCCTCCCCAGCTCCCAGGCTTACTCCACAGCGGACTGATGGCTGACCACTTGCCA  
 GGAAGGATACGGCCCAACACCAGCTGCCCGGTGCCAATCAAAGTCTGTCTCGCTCACCTCCGCTCGAGA  
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 GGTGGACTTCTGCCAGGAAATGACTGAGAAGTGTACAACGGACGAACAGCCAGGAAAGATTATGCC

**ACCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:** >MG224703 representing NM\_001109661  
 Red=Cloning site Green=Tags(s)

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MSVDEKPGSPMYVYESTVHCANILLGLNDQRKKDILCDVTLIVERKEFRAHRAVLAACSEYFWQALVGQT
KDDL VVSLPEEVTARGFGPLLQFAYTAKLLL SRENIREVIRCAEFLRMHNLEDSCFSFLQTQLLNREDGL
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VPTDTKENSQKQALTYPRYKQYLACTKNVYSAPSHGTSGFSTFSEDSFGNSLKPGLPMGQIKSEPPS
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LLDNFSCLSQEVC RDIQSPEQIQALHRYCPVLIPMDLPGASVNP PVPVGEQSLAPSPCAVGGSVPCCLEP
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```

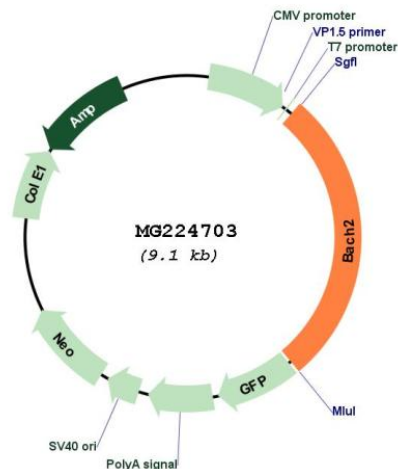
TRTRPLE - GFP Tag - V

**Restriction Sites:** Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



**Plasmid Map:**


**ACCN:** NM\_001109661

**ORF Size:** 2517 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\\_001109661.1](#), [NP\\_001103131.1](#)

**RefSeq Size:** 8493 bp

**RefSeq ORF:** 2520 bp

**Locus ID:** 12014

**UniProt ID:** [P97303](#)

**Cytogenetics:** 4 A5

**Gene Summary:** Transcriptional regulator that acts as repressor or activator (PubMed:8887638). Binds to Maf recognition elements (MARE) (PubMed:8887638). Plays an important role in coordinating transcription activation and repression by MAFK (PubMed:8887638). Induces apoptosis in response to oxidative stress through repression of the antiapoptotic factor HMOX1 (By similarity). Positively regulates the nuclear import of actin (PubMed:26021350). [UniProtKB/Swiss-Prot Function]