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Product datasheet for MR210390

Bach1 (NM_007520) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Bach1 (NM_007520) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Bach1
Synonyms:	6230421P05Rik; AI323795
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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ORF Nucleotide Sequence:

>MR210390 representing NM_007520
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCTGTGAGTGAGAGTGCGGTATTTGCCTACGAGTCCTCTGTGCATAGCACCAACGTCTTGCTCAGCC
TCAATGACCAGCGGAAGAAGGATGTCCTGTGTGATGTGACTGTCCTGGTGGAGGGCCAGCGGTTCCGAGC
CCACCGCTCGGTGCTGGCTGCGTGCAGCAGCTACTTCCACTCGAGAATCGTAGGCCAGACTGACGCAGAG
CTCACCGTCACACTGCCTGAAGAGGTAACGGTTAAAGGATTTGAACCTTTAATTCAGTTTGCCTACACTG
CCAAACTCATTTTAAGTAAAGACAATGTTGACGAAGTGTGCAGGTGTGTGGAGTTTCTAAGCGTACACAA
TATCGAGGAATCCTGCTTCCAGTTTCTCAAGTTTAAGTTTTTGGACTCCACTTCAGAGCAGCAGGAATGC
GCAAGAAAAAAATGCTTCTCCTCACACTGTCAGAAAGCAGATTTTAAATTTTCATTTTCAGAACAGAAAG
ATCTCGAAATCGATGAAGCAGATGAATTCTTGGAAAAGAAACGTGTTCAGACGCCTCAGTGTGACTCCCG
CAGGTGTCAGGGCAGTGTAAAAGCATCCCCCCCTCTCCAGGACAGTGTCAGTCAGGCGTGCCAGTCCCTG
TGCACGGACAAGGATGGAGCCCTGGCATTGCCATCTCTATGCCCCAAATACAGAAAGTTCCAGAAAGCGT
TTGGAACTGACAAGATCCGAACTCTAGAATCCGGTGTCAGAGATGTCCACACTGCCTCTGTCCAGCCAAA
TGAGACCTCTGAACTTGAGTGTTTTGGGGGAGCGCAGGGCTGTGCAGATTTACACGTGATTTTAAAATGT
GAAGGAATGAAGGCAGCCATGGAGAGTGAAGACACAGAGGGCCAGGATCCCTCCCCTCAGTGCCCTGCAG
AGCAGCCCCAAGGGACACCCTTGCCTCAGGATTCTGCAGGACCTCACGGGCTCTACTCCTTGTCAGCCTT
ACACACATATGAGCAGTCAGGTGACGTGGCCTTTGCTGGGGTGCAGAGTAAAACCGTGAAGACAGAAAAG
CCTCTGTCGAGGCCAGATGCCCAGGACGAGAAGCCATCGGAAAATCAGGATTTATATCTGAAGTCTAGCA
TGGGCCCTAAAGAAGACAGCAGCAGCCTTGCATCTGAGGATCGGAGTAGTGTGGAGCGAGAGGTGGCAGA
GCACCTGGCCAAAGGCTTCTGGAGTGACATTTGCAGCACGGACTCGCCTTGCCAAATGCAGTTGTCGCCC
ACTGTGGCCAAAGACGGCCCAGAACAGGGCTACTCGCAAAGGCGATCTGAGTGTCCCTGGTTGGGTATCA
GGATCAGTGAGAGCCCCGAGCCAGGCCAGCGGACTTTCACAACTCTCAGTTCCGTCAACTGCCCTTTTAT
CAGTACTCTGAGTTCCGAAGGCTGCTCAAGCAACTTGGAAATTGGAAACTACGATTATGTCTCGGAGCCT
CAGCAGGAGCCTTGCCCGTATGCTTGTGTGATTAGCCTGGGAGATGACTCTGAGACGGACACGGAAGGTG
ACAGCGAGTCCTGTTCTGCCAGGGAGCAGGACTGTGAGGTGAAGCTGCCATTCAATGCCCAACGGATAAT
TTCGCTCTCACGAAATGATTTCCAATCCTTGTTGAAAATGCACAAACTGACCCCAGAGCAGCTCGACTGT
ATCCATGACATCCGCAGAAGGAGTAAGAACAGAATCGCCGCGCAACGCTGTCGCAAGAGGAAACTTGACT
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CCACATTCTGTCAACGCTGGGGGAGACAAAGCAGAACCTGACCGGACTTTGTCAGCAGGTGTGCAAGGAA
GCCGCCCTGAGCCCCGAGCAGATCCAGATCCTTGCCAAGTACTCGGCCTCCGACTGCCCGCTTTCCTTTT
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CGTGCCTCCAACTGCACCACCTCCCTGTGGGCGAGGGAGCAGCGCGGCCAGCCAGGAGCTGGTGCAGGAG
TCCCCGCCAACCACCGCAGCTGCCCCAGAGCAGGCCACGCTGTTGGAACCCTGTCGGCAGAGTGCTGGGA
TCTCAGACTTCTGTCAGCAGATGTCTGACAAGTGCACTACTGACGAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>MR210390 representing NM_007520
Red=Cloning site Green=Tags(s)

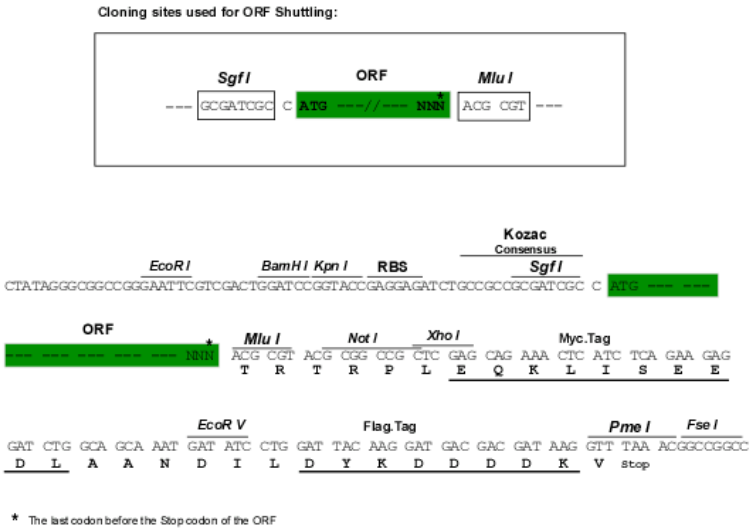
MSVSESAVFAYESSVHSTNVLLSLNDQRKKDVLCDVTVLVEGQRFRAHRSVLAACSSYFHSRIVGQTDAE
LTVTLPEEVTVKGFEPLIQFAYTAKLILSKDNVDEVCRCVEFLSVHNIEESCFQFLKFKFLDSTSEQQEC
ARKKCFSSHCQKADFKFSFSEQKDLEIDEADEFLEKKRVQTPQCDSRRCQGSVKASPPLQDSVSQACQSL
CTDKDGALALPSLCPKYRKFQKAFGTDKIRTLESGVRDVHTASVQPNETSELECFGGAQGCADLHVILKC
EGMKAAMESEDTEGQDPSPQCPAEQPQGTPLPQDSAGPHGLYSLSALHTYEQSGDVAFAGVQSKTVKTEK
PLSRPDAQDEKPSENQDLYLKSSMGPKEDSSSLASEDRSSVEREVAEHLAKGFWSDICSTDSPCQMQLSP
TVAKDGPEQGYSQRRSECPWLGIRISESPEPGQRTFTTLSSVNCPFISTLSSEGCSSNLEIGNYDYVSEP
QQEPCPYACVISLGDDSETDTEGDSESCSAREQDCEVKLPFNAQRIISLSRNDFQSLLKMHKLTPEQLDC
IHDIRRRSKNRIAAQRCRKRKLDCIQNLESEIEKLQSEKESLLKERDHILSTLGETKQNLTGLCQQVCKE
AALSPEQIQILAKYSASDCPLSFLISEKGKSTPDGELAFTSVFSVSDVPPTAPPPCGRGSSAASQELVQE
SPPTTAAAPEQATLLEPCRQSAGISDFCQQMSDKCTTDE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9036_f05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



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.

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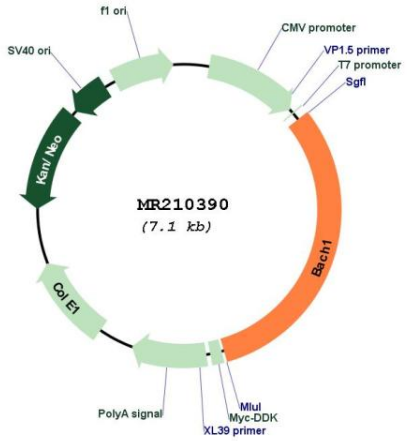
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile 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
MW:	81.8 kDa
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]

Product images:



Circular map for MR210390

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