

Product datasheet for **SC112552**

BACH2 (NM_021813) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BACH2 (NM_021813) Human Untagged Clone
Tag:	Tag Free
Symbol:	BACH2
Synonyms:	BTBD25; IMD60
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene ORF sequence for NM_021813 edited
ATGTCTGTGGATGAGAAGCCTGACTCCCCATGTATGTGTATGAGTCCACAGTCCACTGC
ACCAACATCCTCTGGGCTCAATGACCAGCGGAAAAAGGATATTCTCTGTGACGTGACT
TTGATCGTGGAGAGGAAGGAGTTCGGGGCCACCGGGCTGTGCTGGCCGCATGCAGTGAA
TATTTTTGGCAGGCGCTGGTTGGACAGACAAAAATGATTTGGTGGTCAGCTTGCCTGAG
GAGGTCACRGGCCAGGGCTTTGGGCCGCTGTTACAGTTTGCCTACACTGCCAAGCTGTTA
CTCAGCAGAGAAAAACATCCGCGAGGTCATCCGCTGTGCTGAGTTCCTGCGCATGCACAAC
CTGGAGGACTCCTGCTTACAGCTTCTGCAGACCCAGCTCCTGAACAGTGAGGATGGCCTG
TTTGTGTGCCGGAAGGATGCTGCCGTGCCAGCGCCACACGAGGACTGCGGAACTCTGCA
GGAGAGGAGGAGGATGAAGAGGAGGAGACGATGGATTAGAGACGGCCAAGATGGCTTGC
CCCAGGGACCAGATGCTTCCAGAGCCCATCAGCTTTGAGGCCGCCCATCCCCGTAGCA
GAGAAGGAAGAAGCCCTGCTGCCGAGCCTGACGTGCCACAGACACCAAGGAGAGCTCA
GAAAAGGACGCGTTAACGCAGTACCCAGATACAAGAAATACCAGCTTGCATGTACCAAG
AATGTCTATAATGCATCATCACACAGTACCTCAGGTTTTGCAAGCACATTCGGGAAGAT
AACTCTAGCAACAGCCTCAAGCCGGGGCTTGCCAGGGGGCAGATTAAGAGTGAGCCGCC
AGTGAAGAGAATGAGGAAGAGAGCATCACGCTCTGCCTGTCTGGAGATGAGCCTGACGCC
AAGGACAGAGCGGGGATGTCGAGATGGACCGAAACAGCCAGCCCTGCCCTACCCCC
ACGGCCCCAGCTGGGGCCGCTGCCTGGAGAGATCCAGGAGCGTGGCCTCGCCCTCCTGC
TTAAGGTCTCTGTTACAGATAACGAAAAGTGTGGAGCTGTCTGGCCTGCCAGTACATCT
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CTTAAACTGACTACACCCCTTTCACAGGAATTATGGACAGCCCCACGTGGGCCAGAAG
GAGGTGCCAACTTACCATGGGGTCGCCCTCAGGGGGCTGGGTTGGAGGCTCTCTGT
AAACAGGAGGGAGAGCTGGACCGGAGGCGTGATCTTCTCCTCAGCGCTTGTGACCAA
GTGAGCACCTCGGTGCATTCTTATTCTGGGGTGAGCAGTTTGGACAAAGACCTCTCTGAG
CCGGTGCCAAAGGTCTGTGGGTGGGAGCCGGCCAGTCCCTCCCCAGCTCGCAGGCCTAC
TCCCACGGTGGGCTGATGGCCGACCACTTGCCAGGAAGGATGCGGCCAACACCAGCTGC
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AGCTCCTGCTCTTCTATTCTACGCGGAGGACGGGAGCGGGGGCTCACCTGCAGCCTC
CCTCTCTGTGAGTTCTCCTCCTCGCCCTGTTCCAGGGAGCCAGATTCTTGCCACAGAA
CATCAGGAACCAGGCTGATGGGAGATGGAATGTACAACCAAGTGGGCCCAAATTAAG
TGTGAGCAGTCTTATGGAACCACTCCAGTGACGAATCCGGATCGTTCTCGGAAGCAGAC
AGTGAGTCGTGTCTGTGACAGGACAGGGCCAGGAGGTAAGAACTCCTTTTCTGTAGAT
CAAATCACAGATCTTCAAGGAACGATTTCCAGATGATGATTAAGTGCACAAGTAACC
TCAGAACAGTTAGAGTTTATTCATGATGTCCGACGGCGCAGCAAGAACCAGCATCGCGCC
CAGCGCTGCCGAAAAGGAACTGGACTGTATTGAAATTTAGAAATGTGAAATCCGCAAA
TTGGTGTGTGAGAAAGAGAACTGTTGTCAGAGAGGAATCAACTGAAAGCATGCATGGGG
GAACTGTTGGACAACCTTCTCCTGCCCTTCCAGGAAGTTGCCGAGACATCCAGAGCCCC
GAGCAGATCCAGGCCCTGCATCGGTATTGCCCTGCTCCTCAGACCCATGGACTTCCCACG
GCCTCCAGTATTAACCTGCGCCCTGGGTGCTGAGCAGAACATTGCGGCCTCCCAATGC
GCAGTGGGGGAAAACGTGCCCTGCTGCTTGGAGCCAGGCGGGCTCCCCCGGACCCCC
TGGGCACCCAGCAACACCTCCGAGAATTGTACCTCTGGGAGGAGACTAGAAGGCACTGAC
CCGGGAACCTTCTCAGAGAGAGGACCTCCTTGAACCCAGGAGCAAACAGTGACCGTG
GACTTCTGCCAGGAAATGACTGATAAGTGTACAACAGTACGAAACAGCCAGGAAAGATTAT
ACCTAG
    
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_021813 unedited</p> <pre>GGTCACAATTGTATACGACTCACTATAGGCGGCCGCAATTCGCACGAGGGAGAGAGTGT GGGCGTTCGCGGGAGAGCGCAATCCGCGCGGCCGCGAGCAAACAGCGCCGAGCCGCC GCCTCAGCAGCAGCAGCAGCAGCAGCAGCGGCAGCAGCGGCCGTGCACGCCCGGGCTGCG GTCGCACAGCGCTAACGTGAGCGGCCCGCCCTCGCCACCCCGCTGCCACTCCCGCC GCCGCCCCGCTCTCGCTTCCCCCGGCCCTCCCCTCGCCCCTCCCCTCCCCTCCCCTCC CGACTCGGGGGGCTGGGAACGAGCTGCCATGTGATGCGCGTCCCCTCCGCGAGCTTTCG GTGACCCACGAACTGCCACCTCGCCGGCTGCCGGGAGGGGGCTGCGAGCCGGAAGACG CGGGGAAGAGGAGCGGAAAAGGACGAAAGTTCTCCGGCGAGCTGTCTGCTCAGAAAAG TGAGGGCTCCAGGAATGAGGAGAATCTTCAAGAACTTCCTCGCACTGTGACATGTCTGAT CCCTTGCTCCCATCCCTGCAGCATGAACAAGGTGGACTCACTGACCTGTCACAAGGTT GCCCCACAAAACCTTGGGGTCCATGTCTGAATGGATTGCCAGAGCCTTCTCATCTCTCC TTCGCCAGTTCCCTGCATCCTAAGACTCGAAGGCAGCACAGGACCTGGAAAAATACATG GTGTGAACGGCATGTCTGTGGATGAGAAGCCTGACTCCCCATGTATGTGTATGAGTCCAC AGTCCACTGCACCAACATCCTCCTGGGCCTCAATGACCAGCGAAAAGGATATNCTCTGT GACGTGACCTTGATCGTGAGAGGAAAGAGTNCGNCCACCCGGCTGTGCTGGCCGCAT GCATTGAATATTTTGGCAGGCG</pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_021813 unedited</p> <pre>NTTTGACTTGGACCGCGGCCGATNCTANGATCGAGTTTTTTTTTTTTTTTTTTTTTTTT TTTTATCCTACTGCATGAACTGACAAATTTCTGGCATTACATATTTAAACATTTAGT GCTAATATTTGTACAGAAAAAGTTAATAATACTAAAACATATGTTACTATGATTTCACTT TTAGCCTACATCATATACTAATTTCCCCTTTTACATGCAGCTTTAATATTGTCCAAACAA TGGCACAATAAAGAAACAAAGTCAACCATCTATTCCCCACTGCCACCACCCCATCCCC ACATCAAACCGTTTCAGGACTCTTTCCCAGCCAGGCTGGAGTGGCCCTCGGGCTGCTCA GTGAGACCCGGACCCAAGGCCACTGGAGCGAGGGAGCTGATTCTCCTCCTCTGCGGCAC ACCTTCTGTAAACGTGGCTGGGGCCAACACGGCCCCAGAGCCAAGGGAAGCTGCTCTCT CTGGGTGCAAGCCAACCAAGTTTTCAGCAAGAAGAGAAAATTATCATCAGGTGAGGGTA GGGTATGTGTGATTTCGGAAGGGGACAGGGAGGGTTCCCGTGATAGCTTGTCCAAAG CCTCAGAATGAAGTCTGCCTTCAGACAAGACACTGGCAGAAAAACCTCAGAAGAAAACTC CAAGCCTTTGGAGAAGGAAAGGAGAAAGAATGTGTCANCCTGTGTCAGGGATGGATCGCA GATGCCAGGATGCCCTGCTCTCTCCAAGGGTGAAGGCAGGACCTTCGGGGCTGTGATT CAAATCCCCTCAGGCCAGATGTCCTGGGAGGCCAAGCCCTGGGCAGGAAACCAAGTGGCTG GTTGGCCCCGCTCAAGGGAGCAGGTNCTACTGCACACACTTCCAAGACAAGCCGAGCC CCAGGACGTGTGAAATGATGGGACTTACTCC</pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_021813
Insert Size:	5350 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	The ORF of this clone has been fully sequenced and found to be a perfect match to NM_021813.1.
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:	<ol style="list-style-type: none">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_021813.1 , NP_068585.1
RefSeq Size:	9120 bp
RefSeq ORF:	2526 bp
Locus ID:	60468
UniProt ID:	Q9BYV9
Cytogenetics:	6q15
Domains:	BTB, BRLZ
Protein Families:	Druggable Genome, Transcription Factors
Gene Summary:	<p>Transcriptional regulator that acts as repressor or activator (By similarity). Binds to Maf recognition elements (MARE) (By similarity). Plays an important role in coordinating transcription activation and repression by MAFK (By similarity). Induces apoptosis in response to oxidative stress through repression of the antiapoptotic factor HMOX1 (PubMed:17018862). Positively regulates the nuclear import of actin (By similarity). [UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents the longer transcript. Both variants 1 and 2 encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>