BACH1 cDNA Clone – BTB and CNC Homology 1, Basic Leucine Zipper Transcription Factor 1 (Human)

PRODUCT OVERVIEW

Product Name	BACH1, cDNA Clone
Full Product Name	BACH1 cDNA Clone
Product Gene Name	BACH1 cdna clone
Sequence	atgtctctga gtgagaactc ggtttttgcc tatgaatctt ctgtgcatag caccaatgtt ttactcagcc ttaatgacca gcggaagaaa gatgtgctgt gcgatgtcac catctttgtg gagggacagc ggttccgcgc tcaccggtcc gtgctggcgg catgcagcag ttacttccac tcaagaatcg taggccaggc tgatggagag ctgaacatta ctcttccaga agaggtgaca gttaaaggat ttgaaccttt aattcagttt gcctacactg ctaaactgat tttaagtaaa gagaatgtgg atgaagtgtg caaatgtgtg gagtttttaa gtgtacataa tattgaggaa tcctgctttc agtttctgaa atttaagttt ttggactcca ctgcagacca gcaagaatgc ccaagaaaaa aatgcttttc atcacactgt cagaaaacag accttaaact ttcacttttg gaccagaggg atctagaaac tgatgaagtg gaggaatttc tggaaaataa aaatgttcag actcctcagt gtaaactccg caggtatcaa ggaaatgcaa aagcctcacc tcctctacaa gacagtgcca gtcagacata tgagtccatg tgcttagaga aggatgctgc tctggccttg ccttctttat gccccaaata cagaaaattc caaaaagcat ttggaactga cagagtccgt actggggaat ctagtgtcaa agacattcat gcttctgttc agccaaatga aaggtctgaa aatgaatgcc tgggaggagt cccggagtgt agagatttgc aggtgatgtt aaaatgtgac gaaagtaaat tagcaatgga acctgaagaa acgaagaaag atcctgcttc tcagtgccca actgaaaaat cagaagtgac tcctttcccc cacaattctt ccatagaccc tcatggactt tattctttgt ctcttttaca cacatatgac caatatggtg acttgaattt tgctggtatg caaaacacaa cagtgttaac agaaaagcct ttgtcaggta cagacgtcca agaaaaaaca tttggtgaaa gtcaggattt acctttgaaa tccgacttgg gcaccaggga agatagtagt gttgcatcta gtgataggag tagtgtggag cgagaagtgg cagaacacct agcaaaaggc ttctggagtg acatttgcag cacggacact ccttgccaaa tgcagttatc acctgctgtg gccaaagatg gctcagaaca gatctcacag aaacggtctg agtgtccgtg gttaggtatc aggattagtg agagcccaga accaggtcaa aggactttca caacattaag ttctgtcaac tgccctttta taagtactct gagtactgaa ggctgttcaa gcaatttgga aattggaaac gatgattatg tttcagaacc ccagcaagaa ccttgcccat atgcttgtgt cattagcttg ggagacgact ctgagacgga caccgaagga gacagtgaat cctgttcagc cagagaacaa gaatgtgagg taaaactgcc attcaatgca caacggataa tttcactgtc tcgaaatgat tttcagtcct tgttgaaaat gcacaagctt actccagaac agctggattg tatccatgat attcgaagaa gaagtaaaaa cagaattgct gcacagcgct gtcgcaagag aaaacttgac tgtatacaga atcttgaatc agaaattgag aagctgcaaa gtgaaaagga gagcttgttg aaggaaagag atcacatttt gtcaactctg ggtgagacaa agcagaacct aactggactt tgccagaaag tttgtaaaga agcagctctg agtcaagaac aaatacagat actcgccaag tactcagctg cagattgccc actttcattt ttaatttctg aaaaagataa aagtactcct gatggtgaac tggcgttacc atcaattttc agtttatctg accggcctcc agcagtgctg cctccctgtg ccagaggaaa cagtgagcct ggctacgcgc gagggcagga gtcccagcag atgtccacag ccacctctga gcaagctggg cctgcggaac agtgtcgtca gagtggtggg atctcagatt tctgtcagca gatgactgat aaatgtacta ctgatgagta a
Molecular Weight	81,958 Da
OMIM	602751
Vector	pENTR223.1 or pUC
Clone Sequence Report	Provided with product shipment
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for BACH1 cdna clone	MBS1275813 is a cDNA clone targeting BACH1.
Other Notes	Small volumes of BACH1 cdna clone vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for BACH1. It may not necessarily be applicable to this product.

NCBI GI #	38649263
NCBI GeneID	571
NCBI Accession #	BC063307

UniProt Secondary Accession #	O43285; Q6ICU0
UniProt Related Accession #	O14867
NCBI Official Full Name	Homo sapiens BTB and CNC homology 1, basic leucine zipper transcription factor 1, mRNA
NCBI Official Synonym Full Names	BTB domain and CNC homolog 1
NCBI Official Symbol	BACH1
NCBI Official Synonym Symbols	BACH-1; BTBD24
UniProt Protein Name	Transcription regulator protein BACH1
UniProt Synonym Protein Names	BTB and CNC homolog 1; HA2303
Protein Family	Transcription regulator protein
UniProt Gene Name	BACH1
UniProt Entry Name	BACH1_HUMAN
NCBI Protein Information	transcription regulator protein BACH1
NCBI Summary for BACH1	This gene encodes a transcription factor that belongs to the cap'n'collar type of basic region leucine zipper factor family (CNC-bZip). The encoded protein contains broad complex, tramtrack, bric-a-brac/poxvirus and zinc finger (BTB/POZ) domains, which is atypical of CNC-bZip family members. These BTB/POZ domains facilitate protein-protein interactions and formation of homo- and/or hetero-oligomers. When this encoded protein forms a heterodimer with MafK, it functions as a repressor of Maf recognition element (MARE) and transcription is repressed. Multiple alternatively spliced transcript variants have been identified for this gene. [provided by RefSeq, May 2009]
UniProt Comments for BACH1	BACH1: a transcriptional regulator that acts as a repressor or activator. Binds, in-vitro, to NF-E2 binding sites on DNA. Plays an important role in coordinating transcription activation and repression by NF-E2. Belongs to the bZIP family, CNC subfamily. Protein type: Transcription factor; DNA-binding Chromosomal Location of Human Ortholog: 21q22.11 Cellular Component: cytoplasm; cytosol; nucleus Molecular Function: protein binding; transcription factor activity; ubiquitin-protein ligase activity Biological Process: DNA repair; G1/S-specific transcription in mitotic cell cycle; G2/M-specific transcription in mitotic cell cycle; negative regulation of transcription from RNA polymerase II promoter; regulation of transcription, DNA-dependent
Research Articles on BACH1	**1.** Cyanidin-3-O-glucoside protects HUVECs from palmitic acid-induced injuryby modulating the balance of Nrf2 versus Bach1 inside the nucleus so influencing upregulation of electrophile responsive element mediated gene expression.
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