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Product datasheet for RC202181

BAHD1 (NM_014952) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BAHD1 (NM_014952) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	BAHD1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC202181 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGACACACACTCGGAGAAAGTCCCTTCCCATGCTGAGTTCGGGCCTCACTGGCCGCCGAGAGCCCCTGC
AGATGGAAGACAGCAACATGGAGCAGGGGGTTGAGGGTGTGGAGCCAGGCATGCCCGAGAGCCCAGGTCA
CCTCACAGGGCGCCGCAAGAATTACCCACTTCGTAAGCGCCCATTGGTTCCTGAGAAGCCCAAGGCCTGC
AAAGTGCTGCTGACTCGCCTGGAGAATGTGGCCGGTCCCCGGAGTGCAGATGAGGCTGATGAGCTACCGC
CTGACCTGCCCAAGCCCCCCAGCCCGGCCCCATCCAGTGAAGACCCTGGCCTTGCCCAGCCCCGCAAGCG
GCGCCTGGCCTCCCTCAATGCTGAAGCTCTCAATAACCTGCTGCTGGAGCGAGAGGACACCAGCAGCCTG
GCAGGCACCCGCCGCAGTCGAGCAGGGGATCCCCACCGCAGCCGTGACCGTGATCGTGCTACTGGGGGCT
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AGCACCCGATGAAGGTCCCCGCCGAGATGGAGACCCAGCTCCCAAGAGACTGGCTAGCCTGAACGCAGCT
GCTTTCCTAAAACTGAGCCAGGAGCGGGAGCTACCCCTGCGGCTGCCTCGTGCCCATGCAGAAGTAGATG
GGCGCTCCACTGAGCCCCCAGCACCCAAGGCCCCGAGGCCAAAGTGGCCCAAGGTCAATGGCAAGAACTA
TCCCAAGGCTTGGCAGGGGGCCAGCTCTGGGGAGGCTGCAGGCCCACCTGGCTGGCAAGGCTGCCCTGAT
GAACCATGGCCATCTGCAACTCCTTGTGGGCCATCCGTCCAGCCATCTCATAAGCCCCTGAGCAAGGCTC
TGGAGAGCCCTTTGGGGCTGCGCCCTCACCTGCCCCTGCTGATGGGTGGACAGGCGGCTCTGAAGCCGGA
GCCTGGGCGCCCAGGCGAGGAGTCACCTGCCCCTAAGCAGGAACTGCATCAGCCCTCTTTCCCCACACCT
CAGCTGTCGCCGCTGCCGATGCCTGGCAACCCCGCCGACTACAATGGCCTGTGTGTTGGGCCTGAGCTCA
CTGCACTAGGCAGCTTCTACCTGTACTGTGGCCAAGAGGGGCTGCAGTGTGGGGGCTACTCGCCCTGCCC
CATGCTTCCTGAGGGCAAGCTGTCCCCAGTGGCTGCACCTCACGAGGAGGGGCTCCTCTTAGCTCCGAGC
TCAGTGCCCTCAGGCACCCCTTTCCAGCACCCTCCCTGGGGCTCCTCTCGCTACTGCTCTAGCGAGGACA
CTGGAGTGAATGGCTACAGCATCTGCGGAGTGTTGCCCCTGTCTGTTACCCACGCTGGCACTACCTGTGG
CGGCTGCCCATACAAAATGCCTTTTGCAGCAGAAGGCTGCAGATCCCTGGGCCAGTTGGAATTTCCTCTC
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GAGCGCCAAACCTCCCAGCGGTTCTAAGTCAGGTCTGCGCACAGGCTCCAGCTGCAGGCACACTGCAAGG
AGCAAGGCTGCCCGCAGGCCTAGCCACCCCAAGCAGCCACGTGTCCAGCGCCCACGCCCTCGCCGCCGCC
GTCGCCGCCGCACTAATGGCTGGGTACCTGTTGGGGCTGCGTGTGAGAAGGCTGTGTATGTCTTGGATGA
GCCGGAGCCAGCCATCCGAAAGAGCTACCAGGCGGTAGAGCGGCATGGGGAGACAATCCGAGTCCGGGAC
ACCGTCCTTCTCAAATCAGGCCCACGAAAGACCTCCACACCTTATGTGGCCAAGATCTCTGCCCTCTGGG
AGAACCCCGAGTCAGGAGAGCTGATGATGAGCCTCCTGTGGTATTACAGACCTGAGCACTTACAGGGAGG
CCGCAGTCCCAGCATGCACGAGCCCTTGCAGAATGAAGTGTTTGCATCGCGACATCAGGACCAGAACAGT
GTGGCCTGCATTGAGGAGAAGTGCTATGTGCTGACTTTTGCCGAGTACTGCAGGTTCTGTGCCATGGCCA
AGCGCCGAGGTGAAGGCCTCCCCAGCCGAAAGACAGCACTGGTTCCCCCCTCTGCAGACTATTCCACCCC
ACCCCACCGCACAGTGCCAGAGGACACGGACCCTGAGCTGGTGTTCCTTTGCCGCCATGTCTATGACTTC
CGCCACGGGCGCATCCTTAAGAACCCCCAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC202181 protein sequence
Red=Cloning site Green=Tags(s)

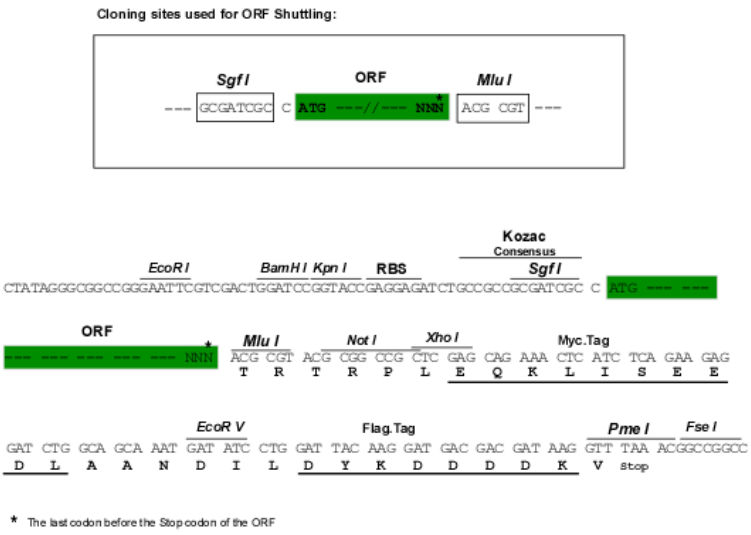
MTHTRRKSLPMLSSGLTGRREPLQMEDSNMEQGVEGVEPGMPESPGHLTGRRKNYPLRKRPLVPEKPKAC
KVLLTRLENVAGPRSADEADELPPDLPKPPSPAPSSEDPGLAQPRKRRLASLNAEALNNLLLEREDTSSL
AGTRRSRAGDPHRSRDRDRATGGWSSSKKRPRLGDLGGGSRHLSPEPAPDEGPRRDGDPAPKRLASLNAA
AFLKLSQERELPLRLPRAHAEVDGRSTEPPAPKAPRPKWPKVNGKNYPKAWQGASSGEAAGPPGWQGCPD
EPWPSATPCGPSVQPSHKPLSKALESPLGLRPHLPLLMGGQAALKPEPGRPGEESPAPKQELHQPSFPTP
QLSPLPMPGNPADYNGLCVGPELTALGSFYLYCGQEGLQCGGYSPCPMLPEGKLSPVAAPHEEGLLLAPS
SVPSGTPFQHPPWGSSRYCSSEDTGVNGYSICGVLPLSVTHAGTTCGGCPYKMPFAAEGCRSLGQLEFPL
PEAGHPASPAHPLLGCPVPSVPPAAEPVPHLQTPTSEPQTVARACPQSAKPPSGSKSGLRTGSSCRHTAR
SKAARRPSHPKQPRVQRPRPRRRRRRRTNGWVPVGAACEKAVYVLDEPEPAIRKSYQAVERHGETIRVRD
TVLLKSGPRKTSTPYVAKISALWENPESGELMMSLLWYYRPEHLQGGRSPSMHEPLQNEVFASRHQDQNS
VACIEEKCYVLTFAEYCRFCAMAKRRGEGLPSRKTALVPPSADYSTPPHRTVPEDTDPELVFLCRHVYDF
RHGRILKNPQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6324_c01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN:	NM_014952
ORF Size:	2340 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_014952.2, NP_055767.2

RefSeq Size: 4605 bp

RefSeq ORF: 2343 bp

Locus ID: 22893

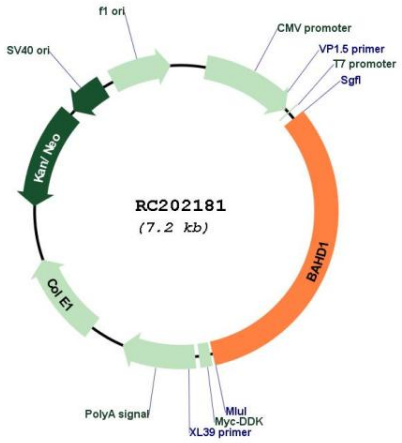
UniProt ID: Q8TBE0

Cytogenetics: 15q15.1

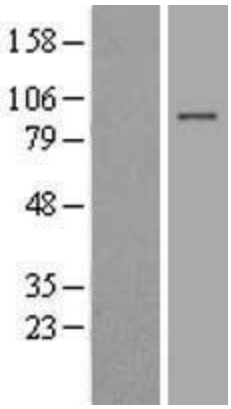
MW: 84.7 kDa

Gene Summary: Heterochromatin protein that acts as a transcription repressor and has the ability to promote the formation of large heterochromatic domains. May act by recruiting heterochromatin proteins such as CBX5 (HP1 alpha), HDAC5 and MBD1. Represses IGF2 expression by binding to its CpG-rich P3 promoter and recruiting heterochromatin proteins. At specific stages of Listeria infection, in complex with TRIM28, corepresses interferon-stimulated genes, including IFNL1, IFNL2 and IFNL3.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC202181



Western blot validation of overexpression lysate (Cat# [LY414918]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202181 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).