

Product datasheet for **RC228166**

Class A basic helix loop helix protein 9 (BHLHA9) (NM_001164405) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Class A basic helix loop helix protein 9 (BHLHA9) (NM_001164405) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	BHLHA9
Synonyms:	BHLHF42; CCSPD
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC228166 representing NM_001164405 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGCTGCGGGGCGGCCAGGACTAGGCCTCACGGCGCGGAAGGGGCGGAGGACTCTGCGGAGGACTTGG
GGGGCCCTGCCCGAGCCCGGGGGCGATTCGGGGGTGCTGGGGCGAACGGCGCTTCTGCAGCCGGG
CGAGGCGGAGGAGCCGGCGGGCAGGAGGCGCGCGGCCGGTTCGCGTCCAAGCGCGGCGCATGGCCGCC
AACGTGCGGGAGCGCAAGCGCATCTAGACTACAACGAGGCCTTCAACGCGCTGCGCCGGGCGCTGCGGC
ACGACCTGGGCGGCAAGAGGCTCTCAAGATCGCCACGCTGCGCAGGGCCATCCACCGCATCGCCCGCT
CTCCCTGGTCTGCGCGCCAGCCCGCGCCCGCGGGCCCTGCGGACACCTGGAGTGCCACGGCCCGGCC
GCGCGCGGGGACACCGGGGACACAGGCGCCAGCCCGCGCCCTGCAGGGCCAGCCTCGCGCGCCAG
ACGCGCCCGCCCTCGGTGCCGTCCGCGCCCGCTGCGCCTCGTGCCTCCCGCCCGCACGCGCCCTGGCAG
GCCCAGTGGGTGGCCGAGGGGCCGGGCTAGCACAGGCTCCGGGGGAAGCTGGCGCCGCTGTCCGGG
GCTTCTCTGCCGGCCGCTCCCTGGCCGCGGGGCTACCTGCGATCCGCCCGGGATGGGCATCCGC
GCTCC

ACGCGTACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >RC228166 representing NM_001164405
 Red=Cloning site Green=Tags(s)

MLRGAPGLGLTARKGAEDSAEDLGGPCPEPGD SGVLGANGASCSRGEAE EEPAGRRRRARPVRSKARRMAA
 NVREKRILDYNEAFNALRRALRHD LGGKRLSKIATLRRAIHRIAALSLVLRASPAPRGP CGHLECHGPA
 ARGDTGDTGASPPPPAGPSLARPD AARPSVPSAPRCASCPPHAPLARPSAVAEGPLAQASGGSWRRRCGP
 ASSAGPPPWP RGYLRSAPGMGHPRS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

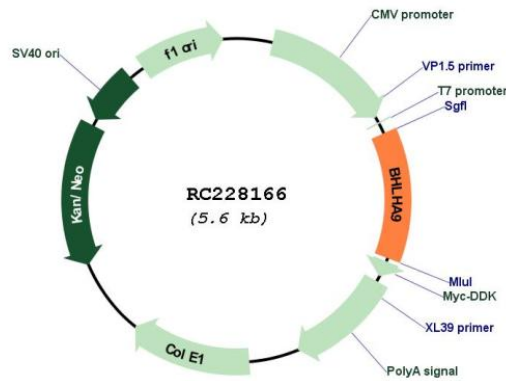
Chromatograms: https://cdn.origene.com/chromatograms/mk8038_h03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



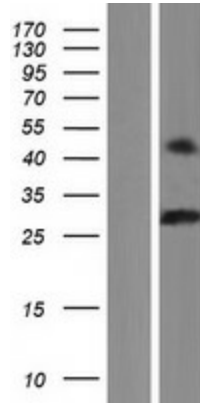
Plasmid Map:



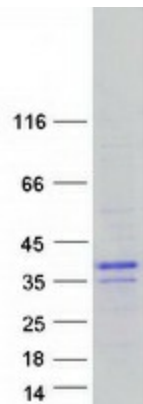
ACCN: NM_001164405

ORF Size:	705 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:	<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_001164405.2
RefSeq ORF:	708 bp
Locus ID:	727857
UniProt ID:	Q7RTU4
Cytogenetics:	17p13.3
MW:	24 kDa
Gene Summary:	This gene is a member of the basic helix-loop-helix family. The encoded protein is a transcription factor involved in limb development. Mutations in this gene have been associated with mesoaxial synostotic syndactyly Malik-Percin type (MSSD). Copy number variation of a locus containing this gene has been linked to a form of split-hand/foot malformation with long bone deficiency (SHFLD3). [provided by RefSeq, Mar 2015]

Product images:



Western blot validation of overexpression lysate (Cat# [LY431194]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC228166 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified BHLHA9 protein (Cat# [TP328166]). The protein was produced from HEK293T cells transfected with BHLHA9 cDNA clone (Cat# RC228166) using MegaTran 2.0 (Cat# [TT210002]).