

Product datasheet for **RG228166**

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:	TurboGFP
Symbol:	BHLHA9
Synonyms:	BHLHF42; CCSPD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG228166 representing NM_001164405 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGCGGGGCGCCAGGACTAGGCCTCACGGCGCGGAAGGGGCGGAGGACTCTGCGGAGGACTTGG
GGGGCCCTGCCCGAGCCCGGGGCGATTGCGGGGTGCTGGGGCGAACGGCGCTTCTGCAGCCGGG
CGAGGCGGAGGAGCCGGCGGGCAGGAGGCGCGCGCCGGTCCGCTCAAGGCGCGGCATGGCCGC
AACGTGCGGGAGCGCAAGCGCATCTAGACTACAACGAGGCCTTCAACGCGCTGCGCCGGGCGCTGCGG
ACGACCTGGGCGCAAGAGGCTCTCAAGATCGCCACGCTGCGCAGGGCCATCCACCGCATCGCCGCGCT
CTCCCTGGTCTGCGCGCCAGCCCGCGCCCGGGCCCTGCGGACACCTGGAGTGCCACGGCCCGGCC
GCGCGCGGGGACACCGGGGACACAGGCGCCAGCCCCCGCCGCTGCAGGGCCAGCCTGCGCGCCAG
ACGCCCGCCGCCCTCGGTGCCGTCCGCGCCCCGCTGCGCCTCGTGCCCCCGCACGCGCCCTGGCAGG
GCCAGTGCGGTGGCCGAGGGGCGGGCTAGCACAGGCCTCCGGGGGAAGCTGGCGCCGCTGTCCGGG
GCTTCTCTGCCGGCCGCTCCTGGCCGCGGGGCTACCTGCGATCCGCCCGGGATGGGCATCCGC
GCTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG228166 representing NM_001164405
Red=Cloning site Green=Tags(s)

MLRGAPGLGLTARKGAEDSAEDLGGPCPEPGGDSGVLGANGASCSRGEAEEPAGRRRRARPVRSKARRMAA
 NVRERKRILDYNEAFNALRRALRHDLGGKRLSKIATLRRAIHRIAALSLVLRASPAPRGPCHLECHGPA
 ARGDTGDTGASPPPPAGPSLARPDAAARPSVPSAPRCASCPPHAPLARPSAVAEGPGLAQASGGSWRRPCG
 ASSAGPPPWPGRGYLRSAPGMGHPRS

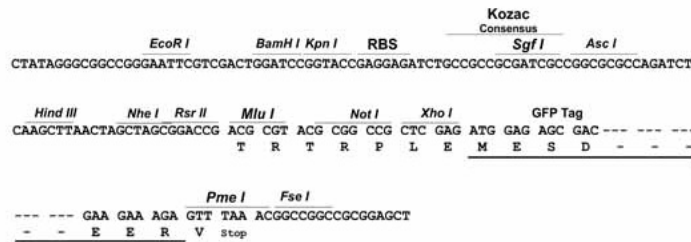
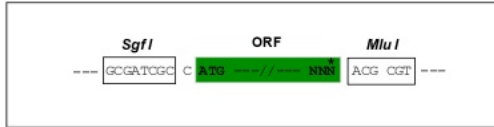
TRTRPLE - GFP Tag - V

Restriction Sites:

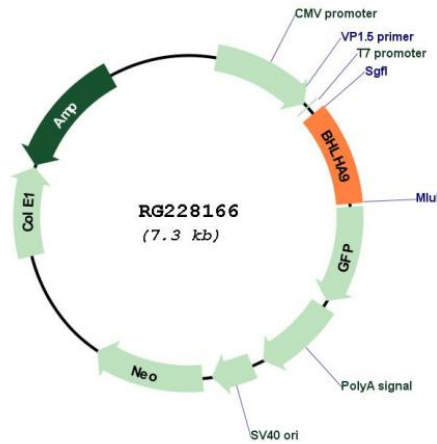
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



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 Size:	708 bp
RefSeq ORF:	708 bp
Locus ID:	727857
UniProt ID:	Q7RTU4
Cytogenetics:	17p13.3
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]