

Product datasheet for **SC306391**

BHLHB5 (BHLHE22) (NM_152414) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	BHLHB5
Synonyms:	Beta3; Beta3a; BHLHB5; CAGL85; TNRC20
Mammalian Cell	None
Selection:	
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_152414 edited
 ATGGAGCGCGGGATGCACCTCGGTGCAGCGGCCCGCGGAGGACGACCTCTTCTGCAC
 AAGAGCCTGAGCGCTCCACCTCCAAGCGCTTGGAAGCGGCTTTCCGCTCCACGCCCCG
 GGCATGGACCTGTCCCTGGCGCGCGCCTCGGGAACGCCCGCGCTCCTCCTCCTCGTCG
 CCCCTGGGTGCTTCGAGCGGCTGACCCGAGGGGGCAGGGCTGCTGTTGCCCGCGCT
 GGAGGAGCGCGCGCGCAGCGCGGAAGTGGCGCGCGCGCGCGCGGGTGGGTGTC
 CCCGGGCTGCTAGTAGGTTAGCGCGCGTGGGGGCGACCTAGCCTAAGCAGCCTGCCG
 GCCGGGGCGCCCTTTGCCTCAAGTACGGCGAAAGCGCGAGCCGGGGCTCGGTGGCCGAG
 AGCAGCGCGCGCGAGCAGAGCCCCGACGACGACGACGCGGTCGTCGCGAGCTCGTGCTG
 CGGGCCGAGTAGCCGACCCGCGGGCTCCCGGGAGCGGGAGGTGGTGGCGCAAGGCA
 GCCGAGGGCTGCTCCAATGCCACCTCCACGCGCGCGCCAGCGTCCCCCGGGGGGCTG
 GGCGCGCGCGCGCGCGGGGTAGCAGCAGCGGTAGCAGTGGCGCGGTGGCGGTAGCGGT
 AGCGGCGCGCGCGCAGCAGCAGCAGCAGCAGCAGCAAGAAATCCAAAGAGCAA
 AAGGCGCTGCGGCTTAACATCAATGCCGAGAGCGCGCGGATGCACGACCTGAACGAC
 GCGCTGGACGAGTGCAGCGGTGATCCCTACGCGCACAGCCCTCGGTGCGAAAGCTC
 TCCAAGATCGCCACGCTGCTGCTCGCAAGAACTACATCCTCATGCAGGCGCAGGCCCTG
 GAGGAGATGCGGCGCTAGTCGCTACCTCAACCAGGGCCAGGCCATCTCGGTGCCTCC
 CTGCCAGCTCGGCGGCTGCAGCGCAGCAGTGTGCCCTGCACCCGGCGCTCGCGCC
 TACGAGCAGGCGCGGTACCGTTACGCGCGGACTGCCCGGCTGCCTCCTGCCCG
 GAGAAGTGCGCCCTGTTAACAGCGTCTCCTCCAGCCTCTGCAACAGTGCACGGAGAAG
 CCTTAA

Restriction Sites: Please inquire

ACCN: NM_152414

Insert Size: 1100 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:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_152414.3, NP_689627.1</u>
RefSeq Size:	3388 bp
RefSeq ORF:	1146 bp
Locus ID:	27319
UniProt ID:	<u>Q8NFJ8</u>
Cytogenetics:	8q12.3
Protein Families:	Druggable Genome
Gene Summary:	This gene encodes a protein that belongs to the basic helix-loop-helix (bHLH) family of transcription factors that regulate cell fate determination, proliferation, and differentiation. A similar protein in mouse is required for the development of the dorsal cochlear nuclei, and is thought to play a role in the differentiation of neurons involved in sensory input. The mouse protein also functions in retinogenesis. [provided by RefSeq, Oct 2016]