

Product datasheet for **SC104033**

BHLHB5 (BHLHE22) (AK091333) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	BHLHB5
Synonyms:	Beta3; BHLHB5; CAGL85; TNRC20
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF: >NCBI ORF sequence for AK091333, the custom clone sequence may differ by one or more nucleotides

```
CTTTGCCTCAAGTACGGCGAAAAGCGCGAGCCGGGGCTCGGTGGCCGAGAGCAGCGGCGGCGAGCAGAGCC
CCGACGACGACAGCGACGGTCGCTGCGAGCTCGTGCTGCGGGCCGAGTAGCCGACCCGCGGGCCTCCCC
GGGAGCGGGAGGTGGTGGCGCAAGGCAGCCGAGGGCTGCTCCAATGCCACCTCCACGGCGGCGCCAGC
GTCCCCCGGGGGGCTGGGCGGCGGCGGCGGGGGTAGCAGCAGCGGTAGCAGTGGCGGCGGTGGCG
GTAGCGGTAGCGGAGCGGCGGCGAGCAGCAGCAGCAGCAGCAGCAAGAAATCCAAAGAGCAAAA
GGCGCTGCGGCTTAACATCAATGCCGAGAGCGCCGGCGGATGCACGACCTGAACGGCGCGCTGGACGAG
CTGCGCGCGGTGATCCCTACGCGCACAGCCCCCGGTGCGAAAGCTCTCCAAGATCGCCACGCTGCTGC
TCGCCAAGAACTACATCCTCATGCGGCGCAGGCCCTGGAGGAGATGCGGCGCCTAGTCGCCTACCTCAA
CCAGGGCCAGGCCATCTCGGCTGCCTCCCTGCCAGCTCGGCGGCTGCAGCGGCGAGCTGCTGCCCTG
CACCCGGCGCTCGGCGCTACGAGCAGGCGCCGGCTACCCGTTACAGCGCCGACTGCCCCGGCTGCCT
CCTGCCCGGAGAAGTGCGCCCTGTTTAACAGCGTCTCTCCAGCCTCTGCAACAGTGCACGGAGAAGCC
TTAAACACACCCCCGAAAAACACAAGACCCACCCAAATCTAGAGGAAAGCGAAAAGCTGCTCCCAACC
CCTTTATTTTGGTCTCTCGTAGTTGTGAACACTTGAGAGCAAAACAAAGCAGAGGCAAGAACTGAGGA
GAAGTATCAGAGACAAACGGGACTTTTAGCCTTGACATCCCAGAACTCTCGGTCTTTGGGGTGGGGAGGG
AGGGAGGAGGGAGGTGGAGTTGGGATGGAGTATGGATGCTTTTTTTCTCAGAAAAGTGGAACCTTTGG
TGGCAGCCTAGACCGCGAGGAAGTGGAATCTTCTTAAAGGTGAAACATAGTTGAGAAGTAGTGCTTGGT
TATTAAGCCTGGAGAGTGTGTAATGGCAAAATACTAATCCTACTAATAATTGGATTGGCTAGTGCT
GAGGGGGAGAGGAGGGGTTAGGGTTGGGTAGCATGAGAGATGGAATATTCATTAGACAAATCAGAAAG
GGCACTTGAAAATAAATTTTGATTCTGAGCAGGAGAAAACTTGAAATGTTGACTTAAGTGGGGGAA
ATAAAACCCAGAGAGAGAGAGAGAGAGAGAGAGAGAGATGTTACTATGAAAGACTTGATTTTTTATT
GTCTCTGAACCTTAATCTGTGAAAATGCTCAAAGTTTGGCGAGAGTGATATAAAAAAAGTACTGTGG
CTGAAAGAATTGCATTTAAAAATATTTATGTGCACCTTGTTACTTTCTACTCTGCAATGATGTATTAACA
ATTCATGGTATTTATTTGTTATTTCTCAATGACCCTCCACATCAACAGTATTTATCATGTGTTAAAGTC
ATGGGTCTTATGTGCAGATTTTTTAAATGCCTCTAAAAATTGTTTTATAGATTACTTATGCTGTGTGCCAA
GTGTTTAAAGGTTTATTTGCCAACAAGTATGAAGAGAAATATTGATGTATCTGAGCTGCTTAGGTTTATG
AAAGGTCACCTGGATATTTTCAGTTGCATCATCCCTGTATTTAAATTGAGCTTAAATAAATTGCTTCAGT
CCAAAAATTACAGGAAAGGTGATTCTTAATTGATGAATGAATTGATCTCTTTTTTGAAGGGGACTCCT
TTACATTCCAAAAGGGAAAAACATCACAGCAATAGTTGCTATACGTAAGAACATGCTAAGCAAAATTTTT
TCCAGGCTGTGCTGTGCATTTTTAAAGGTCTAATTTAATTGCTTTTAAATATATATGTACATATATGTTA
TTTTAACTGTGGAGAATTATTTAAGTTAAAGACTGGTTTGATTTGCCTATGGTGTGAAATCCTTTGTTA
TTTTTCTAAAAAATAAAATTTAAAAAGAAAGAAACTAAGGAAGAACAAGAAGCTATTTACCCAAAGTG
AGCTTTTCAGTTTTAGTTTTGCATGGCTGTTTGACTGCCTTTCCGCCCTATGAAAATCAAGAAAATCTTTT
TAAAAAATGGAGTCCTGCTATTTTCACTCCTTGAGATAATACAAATTCAGTTTGTGAGTTGGATGG
TGAGTTGGGAGCTGTGATGGATCTGTTGGCGGGTTTGGATGTGTAAGAATGATATATATATTAATAG
GTCAATCAGACTATGACAGCTATGTACGACCATTTGTATGTATCTATGTCAGAAAGAATCTTTATTAA
AATATTTTGATCAAAC
```

5' Read Nucleotide Sequence:	>OriGene 5' read for AK091333 unedited CAAAATTTGTATACGAACCTACTATAGGGCGGCCGCGATTTCGGCACGAGGGGTGGGTGTC CCCGGGCTGCTAGTAGGTTAGCCGGCGTTGGGGGCGACCCCTAGCCTAAGCAGCCTGCCG GCCGGGGCCGCCCTTTGCCTCAAGTACGGCGAAAGCGCGAGCCGGGGCTCGGTGGCCGAG AGCAGCGGGCGGCGAGCAGAGCCCCGACGACGACGACGACGCGTCTGCGAGCTCGTGCTG CGGGCCGAGTAGCCGACCCGCGGGCTCCCCGGGAGCGGGAGGTGGTGGCGCAAGGCA GCCGAGGGTGCTCCAATGCCACCTCCACGGCGGCGCCAGCGTCCCCCGGGGGGCTG GGCGGGCGGCGGCGGGGGTAGCAGCAGCGGTAGCAGTGGCGGCGGTGGCGGTAGCGGT AGCGGCGAGCGGCGGCGAGCAGCAGCAGCAGCAGCAGCAGCAAGAAATCCAAAGAGCAA AAGGCGCTGCGGCTTAACATCAATGCCCGAGAGCGCCGGCGGATGCACGACCTGAACGAC GCGTGGAGCAGCTGCGCGCGGTGATCCCTACGCGCACAGCCCCTCGGTGCGAAAGCTC TCCAAGATCGCCACGCTGCTGCTCGCCAAGAACTACATCCTCATGCAGGCGCAGGCCCTG GAGGAGATGCGGCGCTAGTCGCTACCTCAACCAGGGCCAGGCCATCTCGGCTGCCTCC CTGCCAGCTNCGCGGCTGCAGCGGCGAGCTGCTGCCCTGCACCCGGCGCTCGGCGCC TACGAGCAGGCGCGGCTACCCGTTACGCGCCGACTGCCCCGGCTGCCTNCTGCCNG NAGAAGTGCGCCCTGTTTAACAGCGTCTNCTTACGCTCTNGCAACAGTGCACGNGAGAA GCCTTAAACACACCCCGAANAACAGACCGACCCAAATCTAGAGGAAAGCGAAAGCTG CTCCCACCCCTT
Restriction Sites:	NotI-NotI
ACCN:	AK091333
Insert Size:	3000 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).
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:	AK091333.1
RefSeq Size:	2466 bp
RefSeq ORF:	2466 bp
Locus ID:	27319

Cytogenetics: 8q12.3

Domains: HLH

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]