

Product datasheet for **RG222046**

BHLHB5 (BHLHE22) (NM_152414) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BHLHB5 (BHLHE22) (NM_152414) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	BHLHE22
Synonyms:	Beta3; Beta3a; BHLHB5; CAGL85; TNRC20
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG222046 representing NM_152414 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGCGCGGGATGCACCTCGGTGCAGCGGCCCGCGGAGGACGACCTCTTCTGCACAAGAGCCTGA
GCGCTCCACCTCAAGCGCTTGAAGCGGCTTCCGCTCCACGCCCCCGGGCATGGACCTGTCCCTGGC
GCCCGCCTCGGAACGCCCGGCTCCTCCTCGTCGCCCTGGGCTGCTTCGAGCCGGCTGACCC
GAGGGGCGAGGGTGTGTTGCCCGCCTGGAGAGCGCGCGGCGAGCGCGGAAGTGGCGCGCGG
GCGCGCGGGGTGGGTGTCCCGGGCTGCTAGTAGGTTACGCCGCGTGGGGGCGACCCTAGCCTAAG
CAGCCTGCCGGCCGGGGCGCCCTTTGCCCAAGTACGGCGAAAGCGCGAGCCGGGGCTCGGTGGCCGAG
AGCAGCGCGGCGAGCAGAGCCCGACGACGACGACGCGGTCGCTGCGAGCTCGTGTGCGGGCCGGAG
TAGCCGACCCGCGGGCTCCCGGGAGCGGGAGGTGGTGGCGGAAGGCAGCCGAGGGCTGCTCCAATGC
CCACCTCCACGGCGGCGCCAGCGTCCCGGGGGGCTGGGCGGCGGCGGCGGGGGTAGCAGCAGC
GGTAGCAGTGGCGGCGGTGGCGGTAGCGGTAGCGGCAGCGGCGGAGCAGCAGCAGCAGCAGCAGCA
GCAAGAAATCAAAGAGCAAAGCGCTGCGGCTAACATCAATGCCGAGAGCGCCGGCGGATGCACGA
CCTGAACGACGCGCTGGACGAGCTGCGCGGCTGATCCCTACGCGCACAGCCCTCGGTGCGAAAGCTC
TCCAAGATCGCCACGCTGCTGCTCGCAAGAATACTCCTCATGCAGGCGCAGGCCCTGGAGGAGATGC
GGCGCTAGTCGCTACCTCAACCAGGGCCAGGCCATCTCGGCTGCCTCCCTGCCAGCTCGGCGGCTGC
AGCGGCAGCAGCTGCTGCCCTGCACCCGCGCTCGGCGCTACGAGCAGGCGAGCCGGCTACCCGTTGAGC
GCCGACTGCCCGGCTGCCTCCTGCCGAGAGTGGCCCTGTTAACAGCGTCTCCTCCAGCCTCT
GCAACAGTGCACGGAGAAGCCT

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTAA



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Protein Sequence: >RG222046 representing NM_152414
 Red=Cloning site Green=Tags(s)

MERGMHLGAAAAGEDDLFLHKSLSASTSKRLEAAFRSTPPGMDSLAPPPRERPASSSSSPLGCFEPADP
 EGAGLLPPPGGGGGSAGSGGGGGVGVPLL VGSAGVGGDPSLSSLPAGAALCLKYGESASRGSVAE
 SSGGEQSPDDSDGRCELVLRAGVADPRASPGAGGGAKAAEGCSNAHLHGGASVPPGGLGGGGGGSSS
 GSSGGGGSGSGSGSSSSSSSSSSKKSKEQKALRLNINARERRRMHDLNDALDELRAVIPYAHSPSVRKL
 SKIATLLLAKNYILMQAQALEEMRRLVAYLNQQAISAAASPSSAAAAAALHPALGAYEQAAGYPFS
 AGLPPAASCPEKCALFNSVSSSLCKQCTEKP

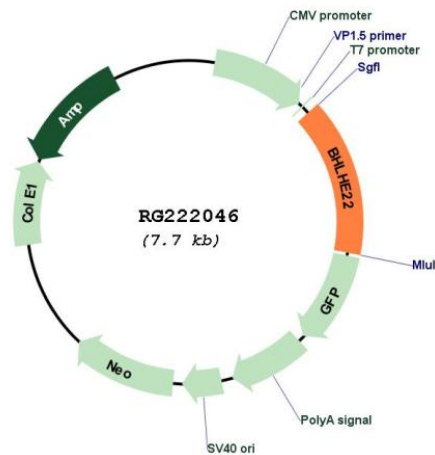
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_152414

ORF Size:	1143 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_152414.5
RefSeq Size:	3388 bp
RefSeq ORF:	1146 bp
Locus ID:	27319
UniProt ID:	Q8NFJ8
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 in the differentiation of neurons involved in sensory input. The mouse protein also functions in retinogenesis. [provided by RefSeq, Oct 2016]