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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:	BHLHB5
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:

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>RG222046 representing NM_152414
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGCGCGGGATGCACCTCGGTGCAGCGGCCGCCGGCGAGGACGACCTCTTCCTGCACAAGAGCCTGA
GCGCCTCCACCTCCAAGCGCTTGGAAGCGGCTTTCCGCTCCACGCCCCCGGGCATGGACCTGTCCCTGGC
GCCGCCGCCTCGGGAACGCCCGGCGTCCTCCTCCTCGTCGCCCCTGGGCTGCTTCGAGCCGGCTGACCCC
GAGGGGGCAGGGCTGCTGTTGCCGCCGCCTGGAGGAGGCGGCGGCGGCAGCGCGGGAAGTGGCGGCGGCG
GCGGCGGCGGGGTGGGTGTCCCCGGGCTGCTAGTAGGTTCAGCCGGCGTTGGGGGCGACCCTAGCCTAAG
CAGCCTGCCGGCCGGGGCCGCCCTTTGCCTCAAGTACGGCGAAAGCGCGAGCCGGGGCTCGGTGGCCGAG
AGCAGCGGCGGCGAGCAGAGCCCCGACGACGACAGCGACGGTCGCTGCGAGCTCGTGCTGCGGGCCGGAG
TAGCCGACCCGCGGGCCTCCCCGGGAGCGGGAGGTGGTGGCGCGAAGGCAGCCGAGGGCTGCTCCAATGC
CCACCTCCACGGCGGCGCCAGCGTCCCCCCGGGGGGCCTGGGCGGCGGCGGCGGCGGGGGTAGCAGCAGC
GGTAGCAGTGGCGGCGGTGGCGGTAGCGGTAGCGGCAGCGGCGGCAGCAGCAGCAGCAGCAGCAGCAGCA
GCAAGAAATCCAAAGAGCAAAAGGCGCTGCGGCTTAACATCAATGCCCGAGAGCGCCGGCGGATGCACGA
CCTGAACGACGCGCTGGACGAGCTGCGCGCGGTGATCCCCTACGCGCACAGCCCCTCGGTGCGAAAGCTC
TCCAAGATCGCCACGCTGCTGCTCGCCAAGAACTACATCCTCATGCAGGCGCAGGCCCTGGAGGAGATGC
GGCGCCTAGTCGCCTACCTCAACCAGGGCCAGGCCATCTCGGCTGCCTCCCTGCCCAGCTCGGCGGCTGC
AGCGGCAGCAGCTGCTGCCCTGCACCCGGCGCTCGGCGCCTACGAGCAGGCAGCCGGCTACCCGTTCAGC
GCCGGACTGCCCCCGGCTGCCTCCTGCCCGGAGAAGTGCGCCCTGTTTAACAGCGTCTCCTCCAGCCTCT
GCAAACAGTGCACGGAGAAGCCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag -  GTTTAA
```

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Protein Sequence:

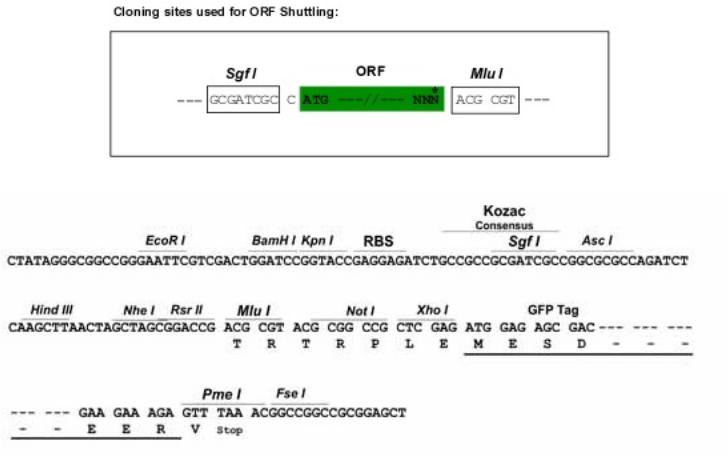
```
>RG222046 representing NM_152414
Red=Cloning site Green=Tags(s)

MERGMHLGAAAAGEDDLFLHKSLSASTSKRLEAAFRSTPPGMDLSLAPPPRERPASSSSSPLGCFEPADP
EGAGLLLPPPGGGGGGSAGSGGGGGGGVGVPGLLVGSAGVGGDPSLSSLPAGAALCLKYGESASRGSVAE
SSGGEQSPDDDSDGRCELVLRAGVADPRASPGAGGGGAKAAEGCSNAHLHGGASVPPGGLGGGGGGGSSS
GSSGGGGGSGSGSGGSSSSSSSSSKKSKEQKALRLNINARERRRMHDLNDALDELRAVIPYAHSPSVRKL
SKIATLLLAKNYILMQAQALEEMRRLVAYLNQGQAISAASLPSSAAAAAAAAALHPALGAYEQAAGYPFS
AGLPPAASCPEKCALFNSVSSSLCKQCTEKP

TRTRPLE - GFP Tag -  V
```

Restriction Sites: SgfI-MluI

Cloning Scheme:



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).

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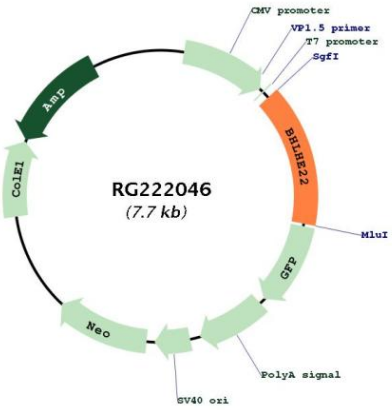
Reconstitution Method:

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.

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]

Product images:



Circular map for RG222046

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