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# Product datasheet for RC217326

## BARHL2 (NM_020063) Human Tagged ORF Clone

## Product data:

| | |
|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | BARHL2 (NM_020063) Human Tagged ORF Clone |
| **Tag:** | Myc-DDK |
| **Symbol:** | BARHL2 |
| **Mammalian Cell Selection:** | Neomycin |
| **Vector:** | pCMV6-Entry (PS100001) |
| **E. coli Selection:** | Kanamycin (25 ug/mL) |

**ORF Nucleotide Sequence:**

```
>RC217326 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGACAATGGAAGGGGCCAGCGGGTCGAGTTTTGGAATAGACACGATTTTGTCCAGTGCCAGTTCAGGCA
GCCCAGGCATGATGAATGGAGATTTCCGCCCGCTCGGTGAGGCCAGGACCGCGGATTTTAGGAGTCAGGC
CACCCCATCTCCCTGTTCGGAGATTGATACCGTAGGGACGGCGCCTTCTTCTCCTATCTCAGTCACCATG
GAGCCCCCGGAGCCGCATCTGGTAGCAGACGCGACCCAGCATCATCACCACCTCCACCACAGCCAGCAGC
CGCCGCCGCCGGCCGCGGCCCCGACGCAAAGTTTGCAGCCTTTGCCCCAACAGCAGCAGCCGCTGCCGCC
ACAGCAGCCGCCGCCGCCGCCCCCCCAGCAGCTGGGCTCGGCCGCCTCGGCCCCCAGGACTTCCACGTCT
TCTTTTTTAATTAAGGACATCTTGGGCGACAGCAAACCTCTGGCGGCATGTGCACCCTACAGCACCAGCG
TATCCTCTCCCCACCACACCCCGAAGCAGGAGAGCAACGCAGTGCACGAGAGCTTCAGGCCAAAGCTCGA
GCAGGAGGACAGCAAGACCAAACTCGACAAGCGGGAGGATTCCCAGAGCGACATCAAATGCCACGGGACA
AAGGAGGAAGGAGACCGGGAGATTACGAGTAGCCGTGAGAGTCCCCCTGTGAGAGCCAAGAAGCCTCGAA
AAGCAAGGACAGCTTTTTCCGACCACCAGCTCAATCAACTGGAGCGTAGCTTTGAGCGGCAGAAGTACCT
GAGCGTGCAGGATCGCATGGACCTGGCTGCAGCGCTCAACCTCACTGACACCCAAGTCAAGACCTGGTAC
CAGAACCGCAGGACCAAGTGGAAGCGGCAGACAGCGGTGGGCCTGGAGTTGCTGGCCGAGGCAGGGAACT
ACTCGGCGCTGCAGAGGATGTTTCCATCGCCTTATTTCTATCACCCAAGCCTGCTGGGCAGCATGGACAG
CACTACGGCGGCGGCGGCTGCCGCTGCCATGTACAGCAGCATGTACCGGACTCCTCCAGCACCCCATCCC
CAGCTGCAGCGGCCCCTGGTGCCCCGTGTGCTCATCCACGGCCTAGGGCCTGGGGGACAGCCAGCCCTTA
ATCCATTGTCCAGCCCCATCCCAGGCACCCCACACCCCCGG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA
```

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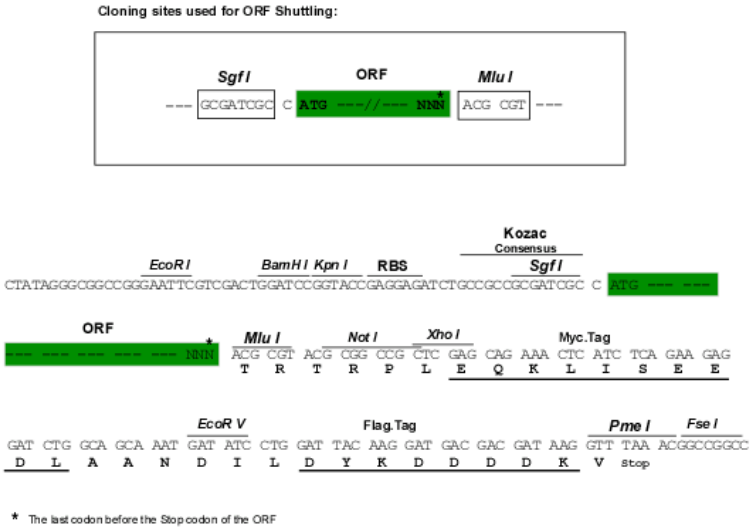
**Protein Sequence:**

```
>RC217326 protein sequence
Red=Cloning site Green=Tags(s)

MTMEGASGSSFGIDTILSSASSGSPGMMNGDFRPLGEARTADFRSQATPSPCSEIDTVGTAPSSPISVTM
EPPEPHLVADATQHHHHLHHSQQPPPPAAAPTQSLQPLPQQQQPLPPQQPPPPPPQQLGSAASAPRTSTS
SFLIKDILGDSKPLAACAPYSTSVSSPHHTPKQESNAVHESFRPKLEQEDSKTKLDKREDSQSDIKCHGT
KEEGDREITSSRESPPVRAKKPRKARTAFSDHQLNQLERSFERQKYLSVQDRMDLAAALNLTDTQVKTWY
QNRRTKWKRQTAVGLELLAEAGNYSALQRMFPSPYFYHPSLLGSMDSTTAAAAAAAMYSSMYRTPPAPHP
QLQRPLVPRVLIHGLGPGGQPALNPLSSPIPGTPHPR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV
```

**Chromatograms:** https://cdn.origene.com/chromatograms/mk6467_a05.zip

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**




**ACCN:** NM_020063

**ORF Size:** 1161 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_020063.2

**RefSeq Size:** 1496 bp

**RefSeq ORF:** 1164 bp

**Locus ID:** 343472

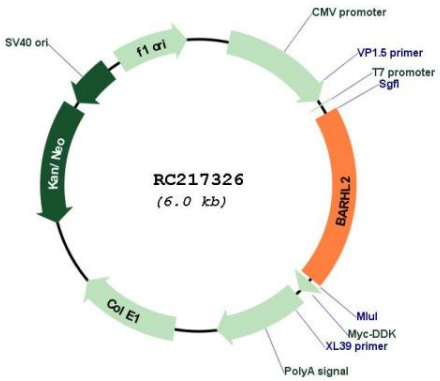
**UniProt ID:** Q9NY43

**Cytogenetics:** 1p22.2

**MW:** 42 kDa

**Gene Summary:** Potential regulator of neural basic helix-loop-helix genes.[UniProtKB/Swiss-Prot Function]

## Product images:




Circular map for RC217326

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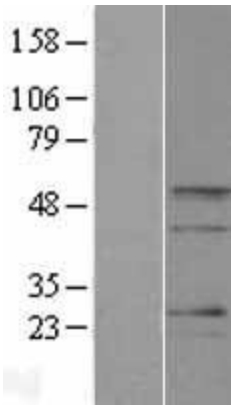
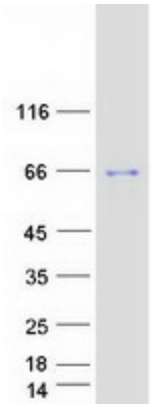



Western blot validation of overexpression lysate (Cat# [LY412652]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC217326 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).




Coomassie blue staining of purified BARHL2 protein (Cat# [TP317326]). The protein was produced from HEK293T cells transfected with BARHL2 cDNA clone (Cat# RC217326) using MegaTran 2.0 (Cat# [TT210002]).

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