

Product datasheet for **RG207304**

HBLD1 (ISCA2) (NM_194279) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: HBLD1 (ISCA2) (NM_194279) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: HBLD1
Synonyms: c14_5557; HBLD1; ISA2; MMDS4
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG207304 representing NM_194279
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCTGCCGCCTGGGGTCTGCCCTAACGGCCGCGACGACAGAGCGGTCACTCCCTGGCCGAGGGGCA
 GGCTCCTCACGGCCTCCCTGGGACCCAGGCGCGTCGGGAGGCGTCGTCCTCCAGCCCCGAGCCGGCGA
 AGGGCAGATCTGCCTCACAGACAGTTGCGTCCAGAGGCTTTTGGAAATCACCGAAGGGTCAGAATTCCTC
 AGGCTGCAAGTGGAGGGAGGTGGATGCTCCGATTCCAATACAAATTTTCACTGGATACAGTTATCAACC
 CCGACGACAGGGTATTTGAACAGGTGGGGCAAGAGTGGTGGTTGACTCTGATAGCTTGGCCTTCGTGAA
 AGGGGCCAGGTGGAATTCAGCCAAGAACTGATCCGAAGCTCATTCAAGTGTGAACAATCCTCAAGCA
 CAGCAAGGCTGCTCCTGTGGGTATCTTCTCTATCAAACCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG207304 representing NM_194279
 Red=Cloning site Green=Tags(s)

MAAWGSLSLAATQRAVTPWPRGRLLTASLGPQARREASSSSPEAGEGQICLTDSVQRLLEITEGSEFL
 RLQVEGGGCSGFQYKFSLDTVINPDDRVEQGGARVVVDSDSLAFVKGAQVDFSQELIRSSFQVLNPNQA
 QQGCSCGSSFSIKL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



View online »

Cloning Scheme:


ACCN: NM_194279

ORF Size: 462 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:

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: [NM_194279.1](#), [NP_919255.1](#)

RefSeq Size: 957 bp

RefSeq ORF: 465 bp

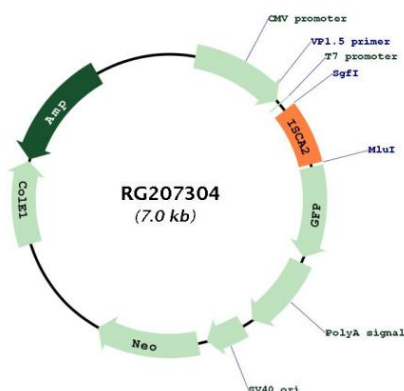
Locus ID: 122961

UniProt ID: [Q86U28](#)

Cytogenetics: 14q24.3

Gene Summary: The protein encoded by this gene is an A-type iron-sulfur cluster (ISC) protein found in mitochondria. The encoded protein appears to be involved in the maturation of mitochondrial iron-sulfur proteins. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2012]

Product images:



Circular map for RG207304