

# Product datasheet for RC207304

## HBLD1 (ISCA2) (NM\_194279) Human Tagged ORF Clone

### **Product data:**

#### OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

Product Type:	Expression Plasmids
Product Name:	HBLD1 (ISCA2) (NM_194279) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	HBLD1
Synonyms:	c14_5557; HBLD1; ISA2; MMDS4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	<pre>&gt;RC207304 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C
	ATGGCTGCCGCCTGGGGGTCGTCCCTAACGGCCGCGACGCAGAGAGCGGTCACTCCCTGGCCGAGGGGCA GGCTCCTCACGGCCTCCCTGGGACCCCAGGCGCGTCGGGAGGCGTCGTCCTCCAGCCCCGAGGCCGGCGA AGGGCAGATCTGCCTCACAGACAGTTGCGTCCAGAGGCTTTTGGAAATCACCGAAGGGTCAGAATTCCTC AGGCTGCAAGTGGAGGGAGGTGGATGCTCCGGATTCCAATACAAATTTTCACTGGATACAGTTATCAACC CCGACGACAGGGTATTTGAACAGGGTGGGGGCAAGAGTGGTGGTTGACTCTGATAGCTTGGCCTTCGTGAA AGGGGCCCAGGTGGACTTCAGCCAAGAACTGATCCGAAGCTCATTTCAAGTGTTGAACAATCCTCAAGCA CAGCAAGGCTGCTCCTGTGGGTCATCTTTCTTCTATCAAACTT
	ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAG <b>GTTTAA</b>
Protein Sequence:	<pre>&gt;RC207304 protein sequence Red=Cloning site Green=Tags(s)</pre>
	MAAAWGSSLTAATQRAVTPWPRGRLLTASLGPQARREASSSSPEAGEGQICLTDSCVQRLLEITEGSEFL RLQVEGGGCSGFQYKFSLDTVINPDDRVFEQGGARVVVDSDSLAFVKGAQVDFSQELIRSSFQVLNNPQA QQGCSCGSSFSIKL
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Chromatograms:	https://cdn.origene.com/chromatograms/mk6523_b09.zip



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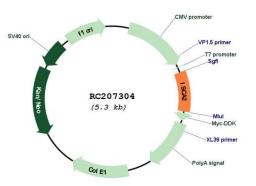
# ORIGENE HBLD1 (ISCA2) (NM\_194279) Human Tagged ORF Clone – RC207304

Restriction Sites:	Sgfl-Mlul
Cloning Scheme:	Cloning sites used for ORF Shuttling: Sgf1 ORF Miul GCGATCGC C MTG MINI ACG CGT
	EcoRI     BamHI Kpn I     RBS     Sgfi       CTATAGGGGGGGGGGGGGAATTCGTCGACTGGATCGGGTACCGGAGGAGATCTGCCGCGCGCG
	Mile     Noti     Xhoi     Myc.Tag       ACG CGT ACG CGG CCG CTC GAG CAG AAA CTC ATC TCA GAA GAG       T     R     T     R     T     R     F     R     L     E     E
	EcoR V     Flag.Tag     Pmei     Fsei       GAT CTG GCA GCA AAT     GAT ATC CTG GAT TAC AAG GAT GAC GAC GAT AAG GTT TAA ACGGCCGGGCC     D     L     A N     D     I     L     D     Y     K     D     D     K     V     stop
	* The last codon before the Stop codon of the ORF
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. <u>More info</u>
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> <li>Centrifuge at 5,000xg for 5min.</li> <li>Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>Close the tube and incubate for 10 minutes at room temperature.</li> <li>Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
RefSeq:	<u>NM 194279.1, NP 919255.1</u>
efSeq Size:	1088 bp
efSeq ORF:	465 bp
ocus ID:	122961

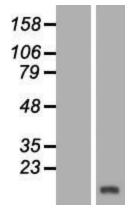
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	HBLD1 (ISCA2) (NM_194279) Human Tagged ORF Clone – RC207304
UniProt ID:	<u>Q86U28</u>
Cytogenetics:	14q24.3
MW:	16.4 kDa
Gene Summary:	The protein encoded by this gene is an A-type iron-sulfur cluster (ISC) protein found in mitochondria. The encoded 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:**

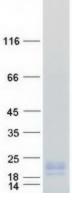


Circular map for RC207304



Western blot validation of overexpression lysate (Cat# [LY405117]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207304 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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Coomassie blue staining of purified ISCA2 protein (Cat# [TP307304]). The protein was produced from HEK293T cells transfected with ISCA2 cDNA clone (Cat# RC207304) using MegaTran 2.0 (Cat# [TT210002]).

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