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 datasheet for RC208857

HBQ1 (NM_005331) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HBQ1 (NM_005331) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	HBQ1
Synonyms:	HBQ
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC208857 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGCTGTCCGCGGAGGACCGGGCGCTGGTGCGCGCCCTGTGGAAGAAGCTGGGCAGCAACGTCGGCG
TCTACACGACAGAGGCCCTGGAAAGGACCTTCCTGGCTTTCCCCGCCACGAAGACCTACTTCTCCCACCT
GGACCTGAGCCCCGGCTCCTCACAAGTCAGAGCCCACGGCCAGAAGGTGGCGGACGCGCTGAGCCTCGCC
GTGGAGCGCCTGGACGACCTACCCCACGCGCTGTCCGCGCTGAGCCACCTGCACGCGTGCCAGCTGCGAG
TGGACCCGGCCAGCTTCCAGCTCCTGGGCCACTGCCTGCTGGTAACCCTCGCCCGGCACTACCCCGGAGA
CTTCAGCCCCGCGCTGCAGGCGTCGCTGGACAAGTTCCTGAGCCACGTTATCTCGGCGCTGGTTTCCGAG
TACCGC

ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGA
TTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC208857 protein sequence
Red=Cloning site Green=Tags(s)

MALSAEDRALVRALWKKLGSNVGVYTTEALERTFLAFPATKTYFSHLDLSPGSSQVRAHGQKVADALSLA
VERLDDLPHALSALSHLHACQLRVDPASFQLLGHCLLVTLARHYPGDFSPALQASLDKFLSHVISALVSE
YR

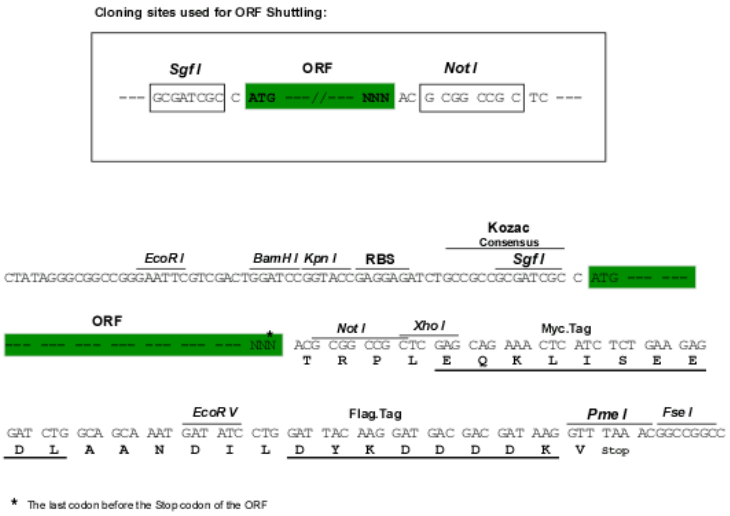
TRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6798_c08.zip

View online »

Restriction Sites: SgfI-NotI

Cloning Scheme:



ACCN: NM_005331

ORF Size: 426 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.

RefSeq: NM_005331.5

RefSeq Size: 653 bp

RefSeq ORF: 429 bp

Locus ID: 3049

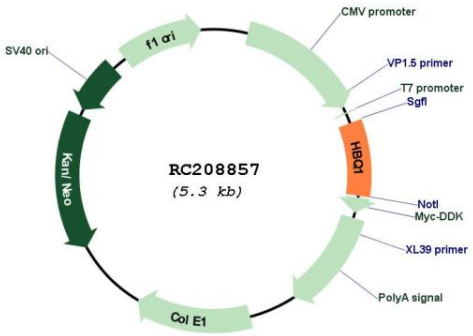
UniProt ID: P09105

Cytogenetics: 16p13.3

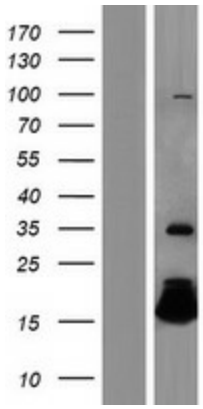
MW: 15.5 kDa

Gene Summary: Theta-globin mRNA is found in human fetal erythroid tissue but not in adult erythroid or other nonerythroid tissue. The theta-1 gene may be expressed very early in embryonic life, perhaps sometime before 5 weeks. Theta-1 is a member of the human alpha-globin gene cluster that involves five functional genes and two pseudogenes. The order of genes is: 5' - zeta - pseudozeta - mu - pseudoalpha-2 -pseudoalpha-1 - alpha-2 - alpha-1 - theta-1 - 3'. Research supports a transcriptionally active role for the gene and a functional role for the peptide in specific cells, possibly those of early erythroid tissue. [provided by RefSeq, Jul 2008]

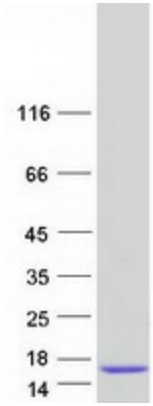
Product images:



Circular map for RC208857



Western blot validation of overexpression lysate (Cat# [LY417378]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC208857 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified HBQ1 protein (Cat# [TP308857]). The protein was produced from HEK293T cells transfected with HBQ1 cDNA clone (Cat# RC208857) using MegaTran 2.0 (Cat# [TT210002]).