

Product datasheet for **RC206504**

HBZ (NM_005332) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HBZ (NM_005332) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	HBZ
Synonyms:	HBAZ; HBZ-T1; HBZ1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC206504 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCTCTGACCAAGACTGAGAGGACCATTGTGTCCATGTGGCCAAGATCTCCACGCAGGCCGACA
CCATCGGCACCGAGACTCTGGAGAGGCTTTCCTCAGCCACCCGACACCAAGACCTACTCCCGCACTT
CGACCTGCACCCGGGTCCGCGCAGTTGCGCGCACGGCTCCAAGGTGGTGGCCGCGTGGCGCAGCG
GTGAAGAGCATCGACGACATCGGCGGCCCTGTCCAAGCTGAGCGAGCTGCACGCCTACATCCTGCGCG
TGGACCCGGTCAACTTCAAGCTCCTGTCCACTGCCTGCTGGTACCCTGGCCGCGCTTCCCCGCCGA
CTTCACGCGCCGAGGCCACGCCGCTGGGACAAGTTCTATCGGTGATCCTCTGCTCCTGACCGAGAAG
TACCGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:	>RC206504 protein sequence Red=Cloning site Green=Tags(s)
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MSLTKTERTIIIVSMWAKISTQADTIGTETLERLFLSHPQTKTYFPHFDLHPGSAQLRAHGSKVVAAVGDA
VKSIDDIGGALSKLSELHAYILRVDPVNFKLLSHCLLVTLAARFPADFTAEHAHAWDKFLSVVSVLTK
YR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:	https://cdn.origene.com/chromatograms/mk6521_d06.zip
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[View online >](#)

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_005332

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_005332.3](#)

RefSeq Size: 589 bp

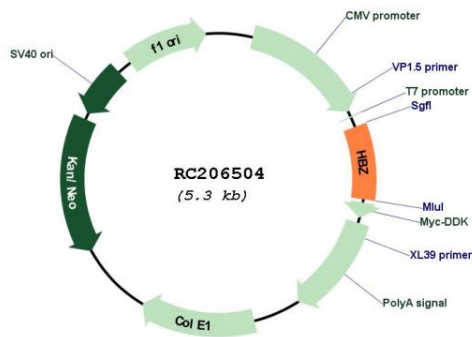
RefSeq ORF: 429 bp

Locus ID: 3050

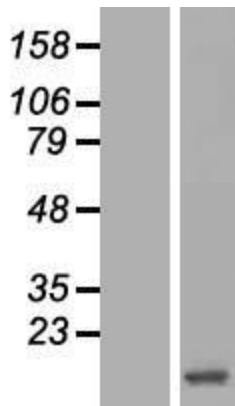
UniProt ID: [P02008](#)
Cytogenetics: 16p13.3
Protein Families: Embryonic stem cells, ES Cell Differentiation/IPs
MW: 15.6 kDa

Gene Summary: Zeta-globin is an alpha-like hemoglobin. The zeta-globin polypeptide is synthesized in the yolk sac of the early embryo, while alpha-globin is produced throughout fetal and adult life. The zeta-globin gene is a member of the human alpha-globin gene cluster that includes five functional genes and two pseudogenes. The order of genes is: 5' - zeta - pseudozeta - mu - pseudoalpha-1 - alpha-2 - alpha-1 - theta1 - 3'. [provided by RefSeq, Nov 2009]

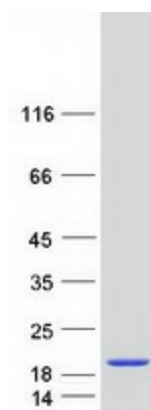
Product images:



Circular map for RC206504



Western blot validation of overexpression lysate (Cat# [LY417379]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206504 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified HBZ protein (Cat# [TP306504]). The protein was produced from HEK293T cells transfected with HBZ cDNA clone (Cat# RC206504) using MegaTran 2.0 (Cat# [TT210002]).