

## Product datasheet for **TP308857**

### HBQ1 (NM\_005331) Human Recombinant Protein

#### Product data:

**Product Type:** Recombinant Proteins

**Description:** Recombinant protein of human hemoglobin, theta 1 (HBQ1), 20 µg

**Species:** Human

**Expression Host:** HEK293T

**Expression cDNA Clone  
or AA Sequence:** >RC208857 protein sequence  
**Red**=Cloning site **Green**=Tags(s)

MALSAEDRALVRALWKKLGSNVGVYTTTEALERTFLAFPATKTYFSHLDLSPGSSQVRAHGQKVADALS  
LAVERLDDLPHALSALSHLHACQLRVDPAFQLLGHCLLVTLARHYPGDFSPALQASLDKFLSHVISALV  
SEYR

**TRPLE**QKLISEEDLAANDILDYKDDDDKV

**Tag:** C-Myc/DDK

**Predicted MW:** 15.3 kDa

**Concentration:** >0.05 µg/µL as determined by microplate BCA method

**Purity:** > 80% as determined by SDS-PAGE and Coomassie blue staining

**Buffer:** 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

**Preparation:** Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

**Note:** For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

**Storage:** Store at -80°C.

**Stability:** Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

**RefSeq:** [NP\\_005322](#)

**Locus ID:** 3049

**UniProt ID:** [P09105](#), [A0A1K0GUV5](#)

**RefSeq Size:** 653



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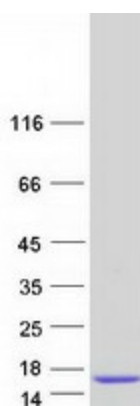
Cytogenetics: 16p13.3

RefSeq ORF: 426

Synonyms: HBQ

**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:



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]).