

Product datasheet for **RG209999**

Hemoglobin subunit delta (HBD) (NM_000519) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Hemoglobin subunit delta (HBD) (NM_000519) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: Hemoglobin subunit delta
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG209999 representing NM_000519
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTGCACTGACTCCTGAGGAGAAGACTGCTGTCAATGCCCTGTGGGGCAAAGTGAACGTGGATGCAG
TTGGTGGTGAGGCCCTGGGCAGATTACTGGTGGTCTACCTTGGACCCAGAGGTTCTTTGAGTCCTTGG
GGATCTGTCTCTCTCTGATGCTGTTATGGGCAACCCTAAGGTGAAGGCTCATGGCAAGAAGGTGCTAGGT
GCCTTTAGTGATGGCCTGGCTCACCTGGACAACCTCAAGGGCACTTTTCTCAGCTGAGTGAGCTGCAT
GTGACAAGCTGCACGTGGATCCTGAGAATTTCAGGCTCTTGGGCAATGTGCTGGTGTGTGTGCTGGCCCG
CAACTTTGGCAAGGAATTCACCCCAAAAATGCAGGCTGCCTATCAGAAGTGGTGGCTGGTGTGGCTAAT
GCCTGGCTCACAAAGTACCAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG209999 representing NM_000519
Red=Cloning site Green=Tags(s)
MVHLTPEEKTAVNALWGKVNVDVAVGGEALGRLLVYYPWTQRFFESFGDLSSPDAVMGNPKVKAHGKKVLG
AFSDGLAHLNLDLKGTFSQLSELHCDKLVDPENFRLLGNLVLCVLRNFGKEFTPMQAAAYQKVAVGAN
ALAHKYH

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_000519

ORF Size: 441 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_000519.4](#)

RefSeq Size: 774 bp

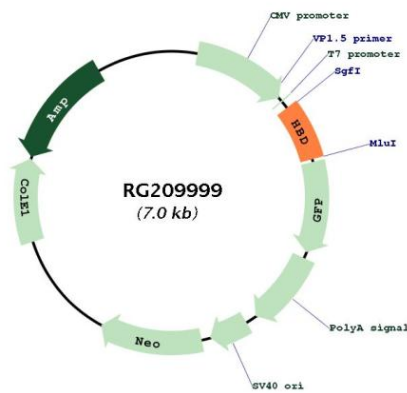
RefSeq ORF: 444 bp

Locus ID: 3045

UniProt ID: [P02042](#)
 Cytogenetics: 11p15.4
 Domains: globin

Gene Summary: The delta (HBD) and beta (HBB) genes are normally expressed in the adult: two alpha chains plus two beta chains constitute HbA, which in normal adult life comprises about 97% of the total hemoglobin. Two alpha chains plus two delta chains constitute HbA-2, which with HbF comprises the remaining 3% of adult hemoglobin. Five beta-like globin genes are found within a 45 kb cluster on chromosome 11 in the following order: 5'-epsilon--Ggamma--Agamma--delta--beta-3'. Mutations in the delta-globin gene are associated with beta-thalassemia. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG209999