

## Product datasheet for **RG202247**

### Hemoglobin subunit epsilon (HBE1) (NM\_005330) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Hemoglobin subunit epsilon (HBE1) (NM_005330) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Hemoglobin subunit epsilon
Synonyms:	HBE
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG202247 representing NM_005330 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGTGCATTTTACTGCTGAGGAGAAGGCTGCCGTCAGCTGTGGAGCAAGATGAATGTGGAAGAGG  
CTGGAGGTGAAGCCTTGGGCAGACTCCTCGTTGTTTACCCCTGGACCCAGAGATTTTTTGACAGCTTTGG  
AAACCTGTCGTCCTCTGCCATCCTGGGCAACCCCAAGGTCAAGGCCCATGGCAAGAAGGTGCTGACT  
TCCTTTGGAGATGCTATTAACAAATGGACAACCTCAAGCCCGCCTTTGCTAAGCTGAGTGAGCTGCACT  
GTGACAAGCTGCATGTGGATCCTGAGAACTTCAAGCTCCTGGGTAACTGATGGTGATTATCTGGCTAC  
TCACTTTGGCAAGGAGTTCACCCCTGAAGTGCAGGCTGCCTGGCAGAAGCTGGTGTCTGCTGCGCCATT  
GCCCTGGCCCATAAAGTACCAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:	>RG202247 representing NM_005330 Red=Cloning site Green=Tags(s)
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MVFHTAEKAAVTSLSKMNVEEAGGEALGRLLVYPWTQRFFDSFNLSSPSAILGNPKVKAHGKKVL  
SFGDAIKNMDNLKPAFAKLSELHCDKLHVDPENFKLLGNVMVILATHFGKEFTPEVQAAWQKLVSVAI  
ALAHKYH

**TRTRPLE** - GFP Tag - V

Restriction Sites:	SgfI-MluI
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## Cloning Scheme:



ACCN: NM\_005330

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

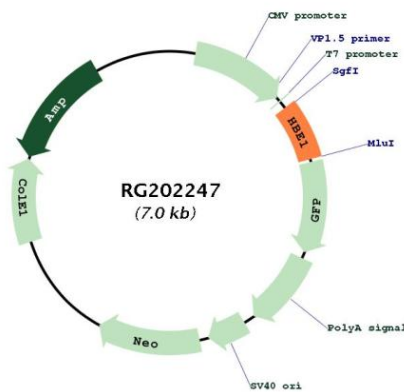
RefSeq: [NM\\_005330.4](#)

RefSeq Size: 816 bp

RefSeq ORF: 444 bp

Locus ID:	3046
UniProt ID:	<a href="#">P02100</a>
Cytogenetics:	11p15.4
Gene Summary:	The epsilon globin gene (HBE) is normally expressed in the embryonic yolk sac: two epsilon chains together with two zeta chains (an alpha-like globin) constitute the embryonic hemoglobin Hb Gower I; two epsilon chains together with two alpha chains form the embryonic Hb Gower II. Both of these embryonic hemoglobins are normally supplanted by fetal, and later, adult hemoglobin. The five beta-like globin genes are found within a 45 kb cluster on chromosome 11 in the following order: 5'-epsilon - G-gamma - A-gamma - delta - beta-3' [provided by RefSeq, Jul 2008]

## Product images:



Circular map for RG202247