

## Product datasheet for **RG203259**

### **HBA1 (NM\_000558) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** HBA1 (NM\_000558) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** HBA1  
**Synonyms:** ECYT7; HBA-T3; HBH; METHBA  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG203259 representing NM\_000558  
**Red**=Cloning site **Blue**=ORF **Green**=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGTGTCTCTCTGCCGACAAGACCAACGTCAAGGCCGCTGGGGTAAGGTCGGCGCGCACGCTGGCG  
AGTATGGTGGGAGGCCCTGGAGAGGATGTTCTGTCTTCCCCACCACCAAGACCTACTTCCGCACTT  
CGACCTGAGCCACGGCTCTGCCAGGTTAAGGGCCACGGCAAGAAGGTGGCCGACGCGTGACCAACGCC  
GTGGCGCACGTGGACGACATGCCAACGCGCTGTCCGCCCTGAGCGACCTGCACGCGCACAAGCTTCGGG  
TGGACCCGGTCAACTTCAAGCTCCTAAGCCACTGCCTGCTGGTGACCCTGGCCGCCACCTCCCCGCCGA  
GTTCAACCCTGCGGTGCACGCCTCCCTGGACAAGTTCTGGCTTCTGTGAGCACCGTGCTGACCTCCAA  
TACCGT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG203259 representing NM\_000558  
**Red**=Cloning site **Green**=Tags(s)

MVLSPADKTNVKAAGKVGAGHAGEYGAEALERMFLSFPTTKTYFPHFDLSHGSAQVKGHGKKVADALTNA  
VAHVDDMPNALSALSDLHAHKLRLVDPVNFKLLSHCLLVTLAAHLPAEFTPAVHASLDKFLASVSTVLTSK  
YR

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** SgfI-MluI



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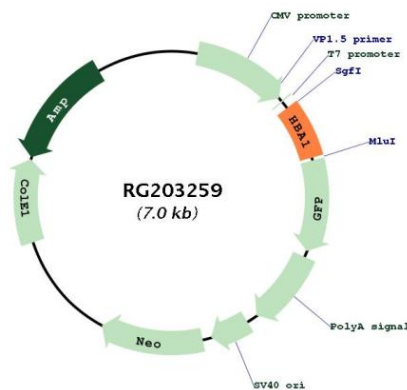
Cloning Scheme:



|                        |   |
|------------------------|---|
| ACCN:                  | NM_000558   |
| 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. <a href="#">More info</a>  |
| 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: | <ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol> |
| Note:                  | Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.  |
| RefSeq:                | <a href="#">NM_000558.5</a>   |
| RefSeq Size:           | 576 bp  |
| RefSeq ORF:            | 429 bp  |

|               |  |
|---------------|--|
| Locus ID:     | 3039   |
| UniProt ID:   | <a href="#">P69905</a>   |
| Cytogenetics: | 16p13.3  |
| Domains:      | globin   |
| Gene Summary: | <p>The human alpha globin gene cluster located on chromosome 16 spans about 30 kb and includes seven loci: 5'- zeta - pseudozeta - mu - pseudoalpha-1 - alpha-2 - alpha-1 - theta - 3'. The alpha-2 (HBA2) and alpha-1 (HBA1) coding sequences are identical. These genes differ slightly over the 5' untranslated regions and the introns, but they differ significantly over the 3' untranslated regions. Two alpha chains plus two beta chains constitute HbA, which in normal adult life comprises about 97% of the total hemoglobin; alpha chains combine with delta chains to constitute HbA-2, which with HbF (fetal hemoglobin) makes up the remaining 3% of adult hemoglobin. Alpha thalassemias result from deletions of each of the alpha genes as well as deletions of both HBA2 and HBA1; some nondeletion alpha thalassemias have also been reported. [provided by RefSeq, Jul 2008]</p> |

## Product images:



Circular map for RG203259