

## Product datasheet for **RG206642**

### Cytoglobin (CYGB) (NM\_134268) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Cytoglobin (CYGB) (NM\_134268) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Cytoglobin  
**Synonyms:** HGB; STAP  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG206642 representing NM\_134268  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGAGAAAGTGCCAGGCGAGATGGAGATCGAGCGCAGGGAGCGGAGCGAGGAGCTGTCCGAGGCGGAGA  
 GGAAGGCGGTGCAGGCTATGTGGCCCCGGCTCTATGCCAGCTGCGAGGACGTGGGGTGGCCATCCTGGT  
 GAGTTCTTTGTAACTCCCTCGGCCAAGCAGTACTTCAGCCAGTTCAAGCACATGGAGGATCCCCTG  
 GAGATGGAGCGGAGCCCCAGCTGCGGAAGCACGCTGCCGAGTCATGGGGGCCCTCAACTGTCTGG  
 AGAACCTGCATGACCCCGACAAGGTGTCTCTGTGCTCGCCCTTGTGGGAAAGCCACGCCCTCAAGCA  
 CAAGGTGGAACCGGTGACTTCAAGATCCTCTCTGGGGTCACTTGGAGGTGGTCGCCGAGGAATTTGCC  
 AGTGACTTCCACCTGAGACGCAGAGAGCCTGGGCCAAGCTGCGTGGCCTCATCTACAGCCACGTGACCG  
 CTGCCTACAAGGAAGTGGGTGGGTGCAGCAGGTCCCCAACGCCACCACCCACCGGCCACACTGCCCTC  
 TTCGGGGCCG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG206642 representing NM\_134268  
 Red=Cloning site Green=Tags(s)

MEKVPGEMEIERRERSEELSEAERKAVQAMWARLYASCEDVGVAILVRRFFVNFPQYFSQFKHMDPL  
 EMERSPLRKHACRVMGALNTVVENLHDPDKVSSVLALVGKAHALKHKVEPVYFKILSGVILEVVAEEFA  
 SDFPPETQRAWAKLRGLIYSHVTAAYKEVGWVQVQPNATTPPATLPSSGP

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



**Cloning Scheme:**


**ACCN:** NM\_134268

**ORF Size:** 570 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\\_134268.3](#), [NP\\_599030.1](#)

**RefSeq Size:** 1951 bp

**RefSeq ORF:** 573 bp

**Locus ID:** 114757

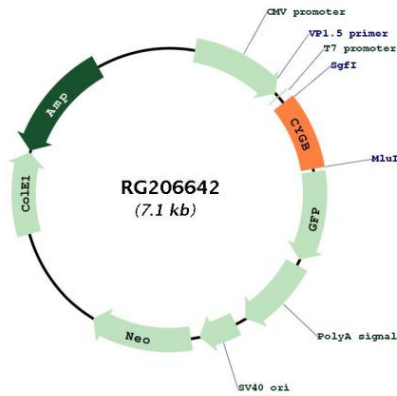
**UniProt ID:** [Q8WWM9](#)

**Cytogenetics:** 17q25.1

**Domains:** globin

**Gene Summary:** This gene encodes a globin protein found in vertebrate cells. The encoded protein is described as a hexacoordinate hemoglobin which binds ligand differently from the pentacoordinate hemoglobins involved in oxygen transport, and may be involved in protection during oxidative stress. This gene is located on chromosome 17 in the same region as a retinal gene which is mutated in progressive rod-cone degeneration, but in the opposite orientation. [provided by RefSeq, Jan 2012]

**Product images:**



Circular map for RG206642