

## Product datasheet for **RG206788**

### **CYB5D2 (NM\_144611) Human Tagged ORF Clone**

#### Product data:

Product Type: Expression Plasmids  
Product Name: CYB5D2 (NM\_144611) Human Tagged ORF Clone  
Tag: TurboGFP  
Symbol: CYB5D2  
Mammalian Cell Selection: Neomycin  
Vector: pCMV6-AC-GFP (PS100010)  
E. coli Selection: Ampicillin (100 ug/mL)  
ORF Nucleotide Sequence: >RG206788 representing NM\_144611  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTTGAGGTGCGGAGGCCGTGGGCTTTTGTGGGCTGGCTGTAGCCGAGCAGCGGTAATGGCAGCAC  
GGCTTATGGGCTGGTGGGGTCCCCGCGCTGGCTTTCGCTTTTCATACCGGAGGAGCTGTCTCGTACCG  
CGGCGGCCAGGGGACCGGGCTGTACTTGGCGTTGCTCGGCCGTGTCTACGATGTGTCTCCGGCCGG  
AGGCACTACGAGCCTGGTCCCCTATAGCGGCTTCGAGGCCGAGACGCATCCAGAGCTTTCGTGACCG  
GGGACTGTTCTGAAGCAGGCCCTCGTGGATGACGTATCCGACCTGTCAGCCGCTGAGATGCTGACACTTCA  
CAATTGGCTTTTATTCTATGAGAAGAATTATGTGTGTGTTGGGAGGGTGACAGGACGGTTCTACGGAGAG  
GATGGGCTGCCACCCCGCACTGACCCAGGTAGAAGCTGCGATCACCAGAGGCTTGAGGCCAACAAC  
TACAGCTGCAAGAGAAGCAGACATTCGCCGCTGCAACGCGGAGTGGAGCTCAGCCAGGGGAGCCGGCT  
CTGGTGTCCCAGAAGAGTGGAGGTGTGAGCAGAGACTGGATTGGCGTCCCAGGAAGCTGTATAAGCCA  
GGTGCTAAGGAGCCCGCTGCGTGTGTGAGAACCACCGCCCCCTAGTGCCAGATGCCGACAACC  
CTCCACACAGAAATCGTGGGACCTGGACCACCCAACTGGCAGAGTACACAGGCTGCCACCGCTAGC  
CATCACATGCTCCTTTCACTC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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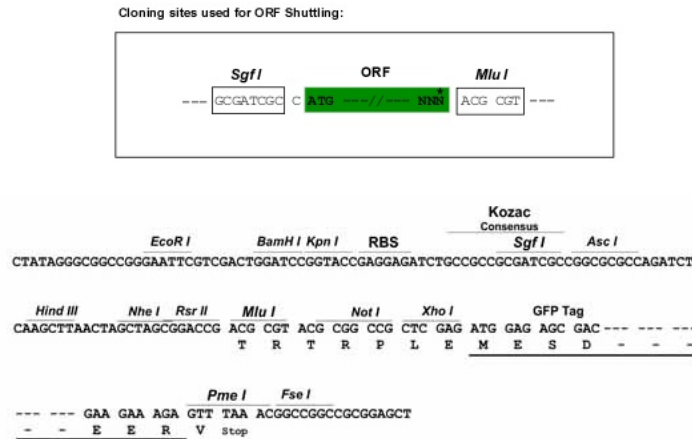
**Protein Sequence:** >RG206788 representing NM\_144611  
Red=Cloning site Green=Tags(s)

MLRCGGRGLLLGLAVAAAAMAARLMGWGPRAGFRLF IPEELSRYRGGPGDPLYLALLGRVYDVSSGR  
 RHYEPGSHYSGFAGRDA SRAVFTGDCSEAGLVDDVSDL SAAEML TLHNWLSFYEKNYVCVGRVTGRFYGE  
 DGLPTPAL TQVEAAITRGL EANKLQLQEKQTFPPCNAEWS SARG SRLWCSQKSGGVSRDWIGVPRKLYKP  
 GAKEPRCV CVRTTGPPSGQMPDNPPHRNRGLDHPNLA EYTGCPPLAITCSFPL

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_144611

**ORF Size:** 792 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\\_144611.4](#)

**RefSeq Size:** 1971 bp

**RefSeq ORF:** 795 bp

**Locus ID:** 124936

**UniProt ID:** [Q8WUJ1](#)

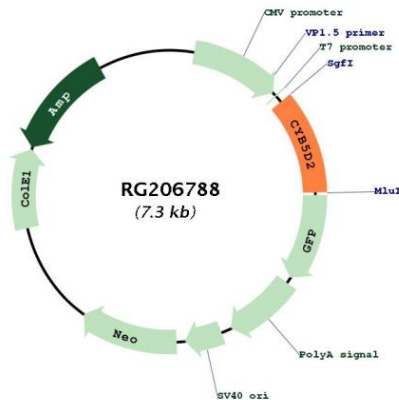
**Cytogenetics:** 17p13.2

**Domains:** heme\_1

**Protein Families:** Druggable Genome, Transmembrane

**Gene Summary:** Heme-binding protein which promotes neuronal but not astrocyte differentiation. [UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for RG206788