

## Product datasheet for **RG204662**

### VPREB3 (NM\_013378) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Tag:** TurboGFP  
**Symbol:** VPREB3  
**Synonyms:** 8HS20; N27C7-2  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)

**ORF Nucleotide Sequence:** >RG204662 representing NM\_013378  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGGCCTGCCGGTGCCTCAGCTTCCTTCTGATGGGGACCTTCTGTCACTTCCAGACAGTCCTGGCCC  
AGCTGGATGCACTGCTGGTCTTCCCAGGCCAAGTGGCTCAACTCTCCTGCACGCTCAGCCCCAGCACGT  
CACCATCAGGGACTACGGTGTGTCTGGTACCAGCAGCGGGCAGGCAGTGCCCTCGATATCTCCTCTAC  
TACCGCTCGGAGGAGGATCACCACCGGCTGCTGACATCCCCGATCGATTCTCGGCAGCCAAGGATGAGG  
CCCACAATGCCTGTGTCTCACCATTAGTCCCGTGCAGCCTGAAGACGACGCGGATTACTACTGCTCTGT  
TGGCTACGGCTTTAGTCCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG204662 representing NM\_013378  
Red=Cloning site Green=Tags(s)

MACRCLSFLLMGTFLSVSQTVLAQLDALLVFPQVLAQLSCTLSPQHVTIRDYGVSWYQQRAGSAPRYLLY  
YRSEEDHHRPADIPDRFSAKDEAHNACVLTISPVPEDDADYYCSVGYGFSP

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI



## Cloning Scheme:



**ACCN:** NM\_013378

**ORF Size:** 369 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.

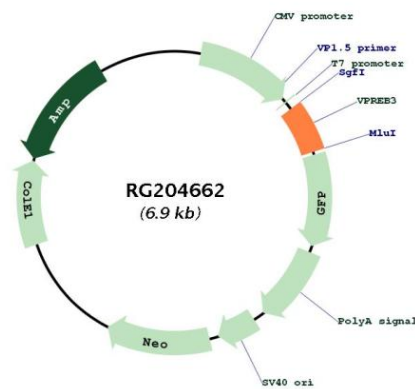
RefSeq: [NM\\_013378.3](#)  
 RefSeq Size: 548 bp  
 RefSeq ORF: 372 bp  
 Locus ID: 29802  
 UniProt ID: [Q9UKI3](#)

Cytogenetics: 22q11

Protein Families: Druggable Genome

**Gene Summary:** The protein encoded by this gene is the human ortholog of the mouse VpreB3 (8HS20) protein, is thought to be involved in B-cell maturation, and may play a role in assembly of the pre-B cell receptor (pre-BCR). While the role of this protein in B-cell development has not yet been elucidated, studies with the chicken ortholog of this protein have found that when overexpressed, this protein localizes to the endoplasmic reticulum. The mouse ortholog of this protein has been shown to associate with membrane mu heavy chains early in the course of pre-B cell receptor biosynthesis. Expression of this gene has been observed in some lymphomas. [provided by RefSeq, Apr 2015]

## Product images:



Circular map for RG204662