

## Product datasheet for **RG208351**

### PREB (NM\_013388) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PREB (NM_013388) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PREB
Synonyms:	SEC12
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG208351 representing NM_013388 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGCGCGCGCGGCCAGAGCTGTACCGGGCTCCGTTCCCGTTGTACGCGCTTCAGGTCGACCCCA  
GCACTGGGCTGCTCATCGCTGCGGGCGGAGGAGCGCCGCAAGACAGGCATAAAGAATGGCGTGCCTT  
TCTGCAGCTAGAGCTGATTAATGGGCGCTTGAGTGCCTCCTTGTGCCTCCATGACACAGAGACCGG  
GCCACCATGAACCTGGCACTGGTGGTACATCCTTGTGCAGGGCAGGATGCCACTGTCAGCTCCTGC  
GCTTCCAGGCACATCAACAGCAGGGCAACAAGGCAGAGAAGGCCGTTCCAAGGAGCAGGGCCTCGACA  
AAGGAAGGGAGCAGCCAGCAGAGAAGAAATGTGGAGCGGAAACCCAGCAGAGGGGCTAGAAGCTCAGG  
GTAGAGAATTTGCAGGCGGTGCAGACAGACTTTAGCTCCGATCCACTGCAGAAAGTTGTGTGCTTCAACC  
ACGATAATACCCTGCTTGCCACTGGAGGAACAGATGGCTACGTCCGTGTCTGGAAGGTGCCAGCCTGGA  
GAAGGTTCTGGAGTTCAAAGCCACGAAGGGGAGATTGAAGACCTGGCTTAGGGCCTGATGGCAAGTTG  
GTAACCGTGGGCCGGACCTTAAGGCCTCTGTGTGGCAGAAGGATCAGCTGGTGCACAGCTGCCTGGC  
AAGAAAATGGACCCACCTTTCCAGCACACCTTACCGCTACCAGGCTGCAGGTTTGGGCAGGTTCCAGA  
CCAGCCTGCTGGCCTGCGACTCTTACAGTGCAAATCCCCACAAGCGCCTGCCAGCCCTCCCTGC  
TACCTCACAGCCTGGGATGGCTCCAACCTTTGCCCTTCGGACCAAGTCTGTGGCCATGAAGTCGTCT  
CCTGCCTCGATGTCAGTGAATCCGGCACCTTCTAGGCCTGGGCACAGTCACTGGCTCTGTTGCCATCTA  
CATAGCTTTCTCTCCAGTGCCTCTACTACGTGAGGGAGGCCCATGGCATTGTGGTGACGGATGTGGCC  
TTTCTACCTGAGAAGGTCGTGGTCCAGAGCTCCTTGGTCCCATGAAACTGCCCTGTTCTCTGTGGCTG  
TGGACAGTCGTTGCCAGCTGCATCTGTTGCCCTCACGGCGGAGTGTTCCTGTGTGGCTCCTGCTCCTGCT  
GTGTGTCGGGCTTATTATTGTGACCATCCTGCTGCTCCAGAGTGCCTTCCAGGTTTCCTT

**ACGGT**ACGGCGCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG208351 representing NM\_013388  
Red=Cloning site Green=Tags(s)

MGRRRAPELYRAPFPLYALQVDPSTGLLIAAGGGGAAKTGIKNGVHFLQLELINGRLSASLLHSHDTETR  
 ATMNLALAGDILAAGQDAHCQLLRFAQHQQGNKAEKAGSKEQGPQRKGAAPAEKKCGAETQHEGLELR  
 VENLQAVQTDSSDPLQKVVCFNHDNTLLATGGTDGYVRVWVPSLEKVFKAHEGEIEDLALGPDGKL  
 VTVGRDLKASVWQKQDLVTQLHWQENPTFSSTPYRYQACRFGQVPDQAPAGRLRFVQIPHKRLRQPPPC  
 YLTAWDGSNFLPLRRTKSCGHEVVSCLDVSESGTFLGLGTVTGSAVIYIAFSLQCLYYVREAHGIVVDVA  
 FLPEKGRGPELLGSHETALFSVAVDSRCQLHLLPSRRSVPVWLLLLLVCGLIIVTILLLLQSAFPGFL

TRTRPLE – GFP Tag – V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_013388

**ORF Size:** 1251 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\\_013388.6](#)

**RefSeq Size:** 2211 bp

**RefSeq ORF:** 1254 bp

**Locus ID:** 10113

**UniProt ID:** [Q9HCU5](#)

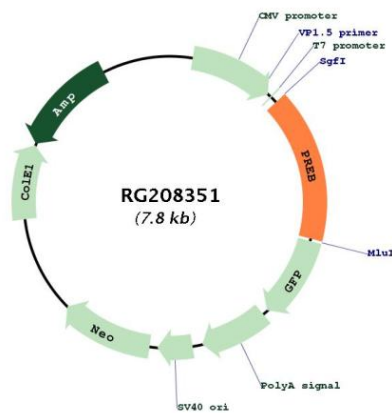
**Cytogenetics:** 2p23.3

**Domains:** WD40

**Protein Families:** Transcription Factors, Transmembrane

**Gene Summary:** This gene encodes a protein that specifically binds to a Pit1-binding element of the prolactin (PRL) promoter. This protein may act as a transcriptional regulator and is thought to be involved in some of the developmental abnormalities observed in patients with partial trisomy 2p. This gene overlaps the abhydrolase domain containing 1 (ABHD1) gene on the opposite strand. [provided by RefSeq, Jul 2008]

**Product images:**



Circular map for RG208351