

## Product datasheet for **RG228859**

### **PRKAR1B (NM\_001164758) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** PRKAR1B (NM\_001164758) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** PRKAR1B  
**Synonyms:** PRKAR1  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG228859 representing NM\_001164758  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCTCCCCGCCGCTGCCCTCGGAGGAGGACGAGAGCCTGAAGGGCTGTGAGCTGTACGTGCAGC  
TGCACGGGATCCAGCAGGTCTCAAAGACTGTATCGTCCACCTCTGCATCTCCAAGCCCCAACGCCCCAT  
GAAGTTCTCCGGGAGCACTTCGAGAAGCTGGAGAAGGAAGAAAACAGGCAGATTTGGCGCGGCAAAAG  
TCAAACACACAGTCGGACTCCCATGATGAGGAGGTGTCGCCACCCCCCGAACCCCTGTGGTGAAGGCC  
GCCGCCGGCGAGGAGGCGTGAGTGCCGAGGTGTACACCGAGGAGGACGCCGTGCTCTACGTCAGGAAGGT  
GATTCCTCAAGGACTACAAAACCATGACTGCGCTGGCCAAGGCCATCTCCAAGAAGCTGCTCTTCGCTCAC  
CTGGATGACAACGAGAGGAGTGACATATTCGATGCCATGTTCCCTGTCACTCACATCGCTGGGGAGACTG  
TTATACAGCAAGGGAATGAAGGAGACAACCTTCTATGTCGTTGATCAAGGGGAAGTGGATGTGTACGTGAA  
CGGAGAGTGGGTGACCAACATCAGCGAGGGAGGCAGCTTCGGGGAGCTGGCGCTCATCTACGGCACCCCC  
AGGGCTGCGACCGTGAAGCCAAGACGGACCTCAAGCTCTGGGGATCGACCGGGACAGCTACCGGCCGA  
TCCTTATGGGCAGCACGCTGAGGAAACGCAAGATGTACGAGGAGTTCCTCAGCAAGGTCTCCATCTAGA  
GTCCCTGGAGAAGTGGGAGCGTCTGACCGTGGCGGATGCGCTGGAGCCCGTCCAGTTTGAAGATGGAGAG  
AAAATCGTGGTCCAGGGAGAGCCTGGGGACGACTTTTACATCATCACGGAGGGCACCGCGTCCGTGCTGC  
AGCGCCGTCCTCCCAATGAGGAGTACGTGGAGGTGGGGCCCTGGGACCCCTGACTACTTCGGGGAGAT  
TGCACTGCTGCTGAACCGCCCCGGCGGCCACTGTCGTGGCCCGGGGGCCCTCAAGTGTGTGAAGCTG  
GACCGGCCCGCTTCGAGCGTGTGCTGGGGCCCTGCTCTGAGATCCTCAAGAGGAACATTACGCTTACA  
ACAGCTTCATCTCCCTACCGTC

**ACCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA



[View online »](#)

**Protein Sequence:** >RG228859 representing NM\_001164758  
 Red=Cloning site Green=Tags(s)

MASPPACPSEEDSLKGCELYVQLHGIQQVLKDCIVHLCISKPERPMKFLREHFLEKEENRQILARQK  
 SNSQSDSHDEEVSPTPPNPVVKARRRRGGVSAEVYTEEAVSYVRKVIPKDYKMTALAKAISKVLF  
 LDDNERSDIFDAMFPVTHIAGETVIQQNEGDNFYVVDQGEVDVYVNGEWTNISEGGSFGELAL  
 IYGTP RAATVKAKTDLKLWIDRDSYRRILMGSTLRKRKMYEEFLSKVSILESLEKWERLTVADALEP  
 VQFEDGE KIVVQGEPGDDFYIITEGTASVLQRRSPNEEYVEVGRGLGPSDYFGEIALLLNRP  
 RAATVVARGLKCVKL DRPRFERVLGPCSEILKRNIQRYNSFISLTV

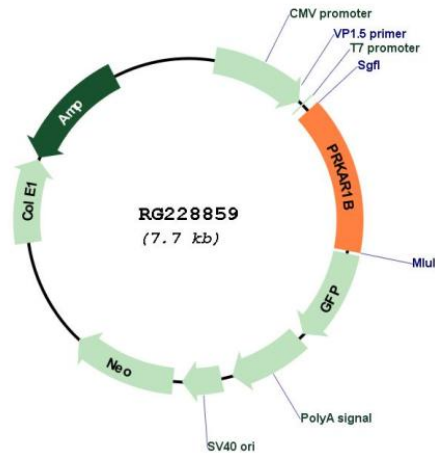
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001164758

<b>ORF Size:</b>	1143 bp
<b>OTI Disclaimer:</b>	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>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<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>
<b>RefSeq:</b>	<a href="#">NM_001164758.1</a> , <a href="#">NP_001158230.1</a>
<b>RefSeq Size:</b>	2488 bp
<b>RefSeq ORF:</b>	1146 bp
<b>Locus ID:</b>	5575
<b>UniProt ID:</b>	<a href="#">P31321</a>
<b>Cytogenetics:</b>	7p22.3
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Apoptosis, Insulin signaling pathway
<b>Gene Summary:</b>	The protein encoded by this gene is a regulatory subunit of cyclic AMP-dependent protein kinase A (PKA), which is involved in the signaling pathway of the second messenger cAMP. Two regulatory and two catalytic subunits form the PKA holoenzyme, disbands after cAMP binding. The holoenzyme is involved in many cellular events, including ion transport, metabolism, and transcription. Several transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Aug 2015]