

## Product datasheet for **MG217468**

### Ptcra (NM\_011195) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Ptcra (NM\_011195) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Ptcra  
**Synonyms:** gp33; pT-alpha; pT-alpha-TCR; pTa; pTalpha; pT[a]  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG217468 representing NM\_011195  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCTTCTCCACGAGTGGGCCATGGCTAGGACATGGCTGCTGCTGCTTCTGGGCGTCAGGTGTCAGGCTC  
 TACCATCAGGCATCGCTGGCACCCCTTCCGCTCTGGCTCCACCCATCACACTGCTGGTAGATGGAAG  
 GCAGCACATGCTGGTGGTTTGCCTGGTCCGATGCGGCACCCCTGGCCTTGACAACCTGTCTGGTTC  
 TCAGCTGGCAATGGCAGTGCCCTAGACGCCTTACCTATGGGCCCTCTGGCACCGACGGCACCTGGA  
 CTAGCCTGGCCCAGCTCTCCTTGCCTTCTGAAGAGCTGGAAGCCTGGGAGCCCTTGGTCTGTCACACCAG  
 GCCTGGGGCTGGGGACAGAACCGGAGCACACACCCCTCCAGCTGTGAGGGGAATCTTCGACAGCCAGG  
 AGCTGCTTCCGGAGCCTCTCGGGGGACACAGCGGCAGGTAAGTGGCTGAGCCTACTGCGCCTGCTCC  
 TCTTCAAAGTCTGCTCGATGTGCTCCTGACCTGCAGCCACCTCCGCTCCATGTGCTGGCGGGCCA  
 GCACCTCCAGCCACCACCTCACGAAGTCCCTGCCTCCACCCACAGAATTTGGACA

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:** >MG217468 representing NM\_011195  
 Red=Cloning site Green=Tags(s)

MLLHEWAMARTWLLLLLVGRCQALPSGIAGTFFPSLAPPITLLVDGRQHMLVVCLVLDAAPPGLDNPVWF  
 SAGNGSALDAFTYGPLAPDGTWTSLAQLSLPSEELEAWEPLVCHTRPGAGGQNRSTHPLQLSGESSTAR  
 SCFPEPLGGTQRQVLWLSLLRLLLFKLLLLDVLLTCSHLRLHVLGQHLQPPPSRKSLLPPTHRIWT

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI

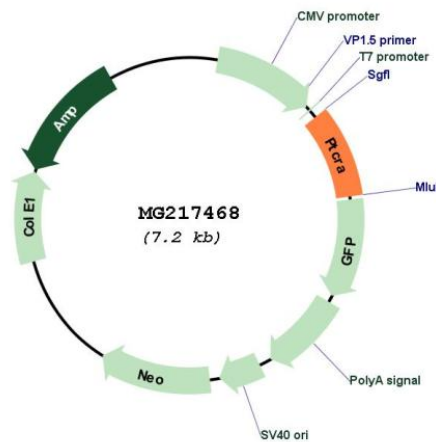


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Cloning Scheme:



Plasmid Map:



ACCN: NM\_011195

ORF Size: 618 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\\_011195.2](#), [NP\\_035325.1](#)

**RefSeq Size:** 1283 bp

**RefSeq ORF:** 621 bp

**Locus ID:** 19208

**UniProt ID:** [P0C6B2](#)

**Cytogenetics:** 17 C

**Gene Summary:** The pre-T-cell receptor complex (composed of PTCRA, TCRB and the CD3 complex) regulates early T-cell development. Isoform 1 acts to retain most TCRB intracellularly, while isoform 2 permits higher levels of cell surface TCRB expression and facilitates signaling from the CD3-TCRB complex.[UniProtKB/Swiss-Prot Function]