

Product datasheet for **RG233684**

PTCRA (NM_001243168) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: PTCRA (NM_001243168) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: PTCRA
Synonyms: PT-ALPHA; PTA
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG233684 representing NM_001243168
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCGGTACATGGCTGCTACTTCTCCTGGCCCTTGGGTGTCCAGCCCTACCCACAGGTGTGGCGGCA
 CACCCTTCTCTGCCCCACCAATCATGCTGCTGGTGGATGGAAAGCAGCAGATGGTGGTGGTCTG
 CCTGGTCTTGATGTTGCACCCCTGGCCTTGACAGCCCATCTGGTTCTCAGCCGGCAATGGCAGTGCA
 CTGGATGCCTTACCTATGGCCCTCCCCAGCAACGGATGGCACCTGGACCAACTGGCCCATCTCTCC
 TGCCTTCTGAGGAGCTGGCATCCTGGGAGCCTTGGTCTGCCACACTGGGCTGGGGCTGAGGGTCACAG
 CAGGAGTACACAGCCCATGCATCTGTCAGGAGAGGCTTCTACAGCCAGGACCTGCCCCAGGAGCCTCTC
 AGGGGGGGCTGCGGGCTCCTGCGGGCTCCTGAGCGGTTCTCCTCGCAGGGACACCGGGTGGGGCGTGT
 GGCTGGGGTCTGCGGCTGCTGCTCTTCAAGTGTGCTGTTTGACCTGCTCCTGACCTGCAGTGCCT
 GTGCGACCCCGCGGGCCCGCTGCCTTCCCCGCAACCACCACCCGCTGCGAGCCCTCGGCTCCCATCGA
 CTGCACCCGCGCCACGGAGACTGGGGACGAGAGGCCACCAGCTCACCCAGACCCAGCCTCGGGACCGCC
 GCTGGGGTGACACCCCTCCGGTTCGGAAGCCCGGGAGCCAGTATGGGGGAAGGTCTTACCTCAGCAG
 TTACCCCACTTGCCAGCACAGGCCTGGTGTCAAGATCTGCCCTCAGGGCTCCTCCTCCAGTCTTGA
 GCATTTTTGCAGGTGACCTGCCTCCTCCTCTGCAGGCTGGAGCTGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG233684 representing NM_001243168
 Red=Cloning site Green=Tags(s)

MAGTWLLLLLALGCPALPTGVGGTPFPFSLAPPIMLLVDGKQQMVVCLVLDVAPPGLDSPFIWFSAGNGSA
 LDAFTYGPSPATDGTWNLHLAHLSPSEELASWEPLVCHTGPGAEGHSRSTQPMHLSGEASTARTCPQEPL
 RGGCGLLRAPERFLLAGTPGGALWLVLRLLLFKLLFDLLLTCSCLCDPAGPLPSPATTTLRALGSHR
 LHPATETGGREATSSPRPQPRDRRWGDTPPGRKPGSPVWGESESYLSSYPTCPAQAWCSRSALRAPSSSLG
 AFFAGDLPPPLQAGAA

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001243168

ORF Size: 888 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_001243168.1](#), [NP_001230097.1](#)

RefSeq Size: 1142 bp

RefSeq ORF: 891 bp

Locus ID: 171558

UniProt ID: [Q6ISU1](#)

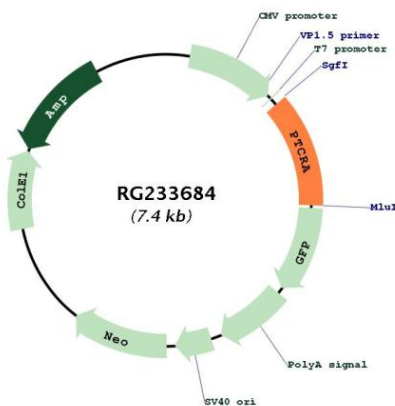
Cytogenetics: 6p21.1

Protein Families: Transmembrane

Protein Pathways: Notch signaling pathway

Gene Summary: The protein encoded by this gene is a single-pass type I membrane protein that is found in immature but not mature T-cells. Along with TCRB and CD3 complex, the encoded protein forms the pre-T-cell receptor complex, which regulates early T-cell development. Four transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Jul 2011]

Product images:



Circular map for RG233684