

Product datasheet for **RC233565**

PTCRA (NM_001243169) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: PTCRA (NM_001243169) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: PTCRA
Synonyms: PT-ALPHA; PTA
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC233565 representing NM_001243169
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCGGTACATGGCTGCTACTTCTCCTGGCCCTTGGGTGTCCAGCCCTACCCACAGGTCTGTTTCCT
TCCCTTCTCACCAGAGGCTGCCACAACAGGCCCATCTGGTTCTCAGCCGGCAATGGCAGTGCCTGGA
TGCCTTACCTATGGCCCTTCCCAGCAACGGATGGCACCTGGACCAACTGGCCATCTCTCCCTGCCT
TCTGAGGAGCTGGCATCCTGGGAGCCTTTGGTCTGCCACACTGGCCTGGGGCTGAGGGTACAGCAGGA
GTACACAGCCCATGCATCTGTCTCAGGAGAGGCTTCTACAGCCAGGACCTGCCCCAGGAGCCTCTCAGGGG
GACACCGGGTGGGGCGCTGTGGCTGGGGTCTGCGGCTGCTGCTTCAAGCTGCTGCTTTGACCTG
CTCCTGACCTGCAGCTGCCTGTGCGACCCCGGGCCCGCTGCCTTCCCCGCAACCACCCCGCCTGC
GAGCCCTCGGCTCCCATCGACTGCACCCGGCCACGGAGACTGGGGACGAGAGGCCACCAGCTCACCCAG
ACCCAGCCTCGGGACCGCCGCTGGGGTACACCCCTCCGGTTCGGAAGCCCGGGAGCCAGTATGGGGG
GAAGGGTCTTACCTCAGCAGTTACCCACTTGCCAGCACAGGCTGGTGTCTCAAGATCTGCCCTCAGGG
CTCCTTCTCCAGTCTTGAGCATTTTTGCAGGTGACCTGCCTCCTCTCTGCAGGCTGGAGCTGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC233565 representing NM_001243169
 Red=Cloning site Green=Tags(s)

MAGTWLLLLLALGCPALPTGPVSPSSPEAATTGPIWFSAGNGSALDAFTYGPSPATDGTWNLHLHLSLP
 SEELASWEPLVCHTGPGEHRSRSTQPMHLSGEASTARTCPQEPLRGTGGALWLVLRLLLKLLFDL
 LLTCSCLCDPAGPLPSPATTTLRALGSHRLHPATETGGREATSSPRPQPRDRRWGDTPPGRKPGSPVWG
 EGSYLSYPTCPAQAWCSRSALRAPSSSLGAFFAGDLPPPLQAGAA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001243169

ORF Size: 768 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_001243169.1](#), [NP_001230098.1](#)

RefSeq Size: 1022 bp

RefSeq ORF: 771 bp

Locus ID: 171558

UniProt ID: [Q6ISU1](#)

Cytogenetics: 6p21.1

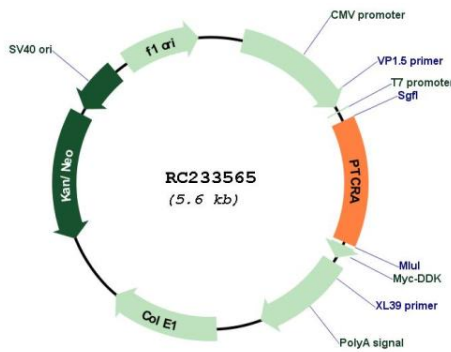
Protein Families: Transmembrane

Protein Pathways: Notch signaling pathway

MW: 27.1 kDa

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 RC233565