

Product datasheet for **MC220401**

Prkch (NM_008856) Mouse Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | Prkch (NM_008856) Mouse Untagged Clone |
| Tag: | Tag Free |
| Symbol: | Prkch |
| Synonyms: | Pkc; Pkch |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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Fully Sequenced ORF: >MC220401 representing NM_008856
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTCGTCGGCAGCATGAAGTTCAATGGCTATCTGAGGGTCCGCATCGGAGAGGCTGTAGGGCTGCAGC
 CCACCCGCTGGTCCCTGCGGCACTCGCTCTTCAAAAAGGGCCACCAGCTGCTGGACCCCTACCTGACGGT
 GAGCGTAGACCAGGTACGCGTGGGCCAGACCAGCACAAAGCAGAAGACCAACAAACCCACCTACAACGAG
 GAGTTCTGCGCAATGTCACCGACGCGGCCACCTGGAGCTAGCCGTCTTCCACGAGACGCCCTGGGTT
 ATGACCACTTTGTGGCCAACTGCACGCTGCAGTTCAGGAGCTGTTGCGCACGGCTGGTACCTCGGACAC
 CTTGAGGGCTGGGTGGATCTGGAGCCTGAGGGGAAAGTGTGTTGGTAATAACCCTAACAGGGAGTTTC
 ACTGAAGCCACTCTCCAGAGAGACCGCATCTTCAAGCATTTTACCAGGAAGCGCCAAAGGGCTATGCGAA
 GACGAGTCCATCAAGTGAACGGACATAAGTTCATGGCCACGTACCTGAGGCAGCCACCTACTGCTCTCA
 TTGCCGAGAGTTCATCTGGGGAGTATTTGGGAAACAGGGTTATCAATGCCAAGTGTGCACCTGCGTCGTC
 CATAAACGCTGCCATCATCTAATTGTTACAGCCTGCACCTGCCAAAACAATTAACAAAGTGGATGCCA
 AGATTGCAAGAACGCGTGGTGGCATCAACATCCCACACAAGTTCAACGTTCAACAATTACAAGGTGCCAC
 GTTCTGTGACCACTGTGGCTCCCTGCTCTGGGGATAATGCGACAAGGACTTCAGTGTAATAATGTAAG
 ATGAATGTACATATTCGGTGTGACGGCAACGTGGCCCCAACTGCGGGGTGAATGCCGTGGAGCTTGCCA
 AGACCCGCGCAGGGATGGGTCTCCAACCCGAAATATTTCTCCAACTCGAAACTCATTTCAGGTGCAC
 ACTAAGACGGCAGGAAAGGAGGGCTCCAAAGAAGGAAATGGGATCGGTGTTAACTCTCCAGCAGATTC
 GGCATCGACAACCTTTGAGTTCATCCGGGTGTTGGGAAGGGGAGCTTCGGAAGGTGATGCTTCCAGGA
 TAAAGGAGACAGGAGAAGTGTACGCCGTGAAGGTGCTGAAGAAGGACGTGATTCTGCAGGATGATGATGT
 AGAGTGCACCATGACTGAGAAGAGGATCCTGTCTTGGCCCGCAACCACCCCTTCTCACCCAGCTCTTC
 TGCTGCTTTCAGACTCCAGACCTCTGTTCTTTGTCATGGAGTTTGTGAACGGAGGCGACCTGATGTTCC
 ACATCCAAAAGTCCCGTCGTTTCGATGAAGCCCGTCTGCTTTTACGCCCGGAGATCATTTCTGCACT
 CATGTTCTACATGAGAAAGGTATCATCTATAGAGACTTGAAGTGGACAATGTGCTATTGGACCACGAA
 GGTCACGTAAACTGGCCGACTTTGGAATGTGCAAGGAGGGGATTTGTAATGGGGTACCACAGCCACCT
 TCTGCGGTACACCCGACTACATTGCCCCGAGATCCTTCAGGAGATGCTGTATGGACCTGCAGTAGACTG
 GTGGCCATGGGTGTGTTGCTTTATGAGATGCTGTGCGGACATGCGCCCTTTGAGGCTGAAAATGAAGT
 GACCTTTTGGAGCCATACTGAATGATGAAGTCGCTACCCACCTGGCTCCACGAAGATGCCACAGGGA
 TCCTCAAGTCTTTCATGACCAAGAACCACCATGCGCTTGGGACGCTGACTCAGGGAGGAGAGCATGA
 GATCCTGAGACACCCCTTTCTTTAAGGAAATCGACTGGGCCAGTTGAACCATCGCCAGTTAGAGCCGCT
 TTCCGACCTAGAATCAAATCCCAGAGAAGATGTCAGCAATTTTGAACCCAGACTTTATAAAGAAGAGCCCG
 TCTTAACCTCCGATTGATGAGGGACATCTTCTATGATTAACCAGGATGAGTTTAGAACTTTTCTATGT
 GTCACCGAATTGCAACTG**TAG**

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-RsrII
- ACCN:** NM_008856
- Insert Size:** 2052 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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).

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| Reconstitution Method: | <ol style="list-style-type: none">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. |
| Note: | Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required. |
| RefSeq: | NM_008856.4 , NP_032882.2 |
| RefSeq Size: | 3546 bp |
| RefSeq ORF: | 2052 bp |
| Locus ID: | 18755 |
| UniProt ID: | P23298 |
| Cytogenetics: | 12 C3 |
| Gene Summary: | <p>Protein kinase C (PKC) is a family of serine- and threonine-specific protein kinases that can be activated by calcium and the second messenger diacylglycerol. PKC family members phosphorylate a wide variety of protein targets and are known to be involved in diverse cellular signaling pathways. PKC family members also serve as major receptors for phorbol esters, a class of tumor promoters. Each member of the PKC family has a specific expression profile and is believed to play a distinct role in cells. The protein encoded by this gene is one of the PKC family members. It is a calcium-independent and phospholipids-dependent protein kinase. It is predominantly expressed in epithelial tissues and has been shown to reside specifically in the cell nucleus. This protein kinase can regulate keratinocyte differentiation by activating the MAP kinase MAPK13 (p38delta)-activated protein kinase cascade that targets CCAAT/enhancer-binding protein alpha (CEBPA). It is also found to mediate the transcription activation of the transglutaminase 1 (TGM1) gene. Mutations in the human gene are associated with susceptibility to cerebral infarction. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Sep 2015]</p> <p>Transcript Variant: This variant (1) encodes the longer isoform (1).</p> |