

Product datasheet for **MR218890**

Plcd4 (NM_148937) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | Plcd4 (NM_148937) Mouse Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Plcd4 |
| Synonyms: | 4921507K24Rik |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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ORF Nucleotide
Sequence:

>MR218890 representing NM_148937
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGACATCTCAGATTCAAGACCTACTAGCCACTGATCAGGACCTGCTGCTGATGCAAGAAGGCACAATGA
TGCGCAAGGTGAGGACCAAAAAGCTGGAAGAAGCTAAGATACTTCAGACTTCAGAATGACGGCATGACAGT
CTGGCATGGAAGTCAACCAGAAAGCATGCCAAGCCCACTTTTTTCGATCTCTGATGTGGAGAGGATACGT
AAGGGGCAGGATTCTGAGTTGTTGCGCTATCTGGTGGAGGAGTTTCCCCTGGAGCAAGGGTTACCGTTG
TCTTTCATGGGCGCCGCCAACCTGGACCTAGTGGCCAACAGTGTGAAGAGGCCAGATTTGGATGCG
AGGACTCCAGCTGTTGGTGGATCTTGTGCCAGCATGGACCACCAGGAGCAAATGGATCAAATGTTGAAT
GAGTGGTTCAGCAAGCAGACAGAAACCAGGATGGCCGGATGAGTTTCAGAGAAGCTCAACGGCTGCTGC
TTCTGATGAACGTGGAATGGATGAAGAGTACGCCTTCAGTCTTTCCAGGAGGCAGATGTTACCCAGTC
TGATGATCTGGGGTCGGAAGAATTTGTACAGTTCTATAAGGCCCTGACTAAGCGCACTGAGATTGAAGAA
ATATTTGAGGACTTCTCATCTGACAAACAGAAGCTGACCTTGCTGGAATTTGTGGATTTCCTTAGAAAGG
AACAGAAAGAAAAGACCATGCTCCTGACCTCGCTCTGGAACCTATTGACCGCTATGAGCCTTCTGAGAA
TGGCCGATTGCTGCATGTGCTGAGCAAGGATGGCTTCTCAAGTACCTCTGCTCGAAGGATGAAACATC
TTCAACAGTGACTGCCTCCCTATCTACCAGGATATGACTCAGCCTCTGAGCCACTACTACATTAECTCTT
CTCACAAACCTACCTAGTGGGGGACCAGCTTTGCGGCCAGAGCAGCGTTGAAGGATACATACGGGCCTT
GAAACGGGGTGCCGCTGTGTGGAGGTGGACACGTGGGATGGACCTGATGGAGAGCCTGTTGTTTATCAT
GGCAGTACCCTGACCTCTCGCATCTTCAAAAGATGTGTGGCAACTCTCGCGCAATATGCCTTCCAGT
CATCAGACTACCCTCTCATCTTGTCTTGAAACCAGTGCACCTGGGAACAGCAGAGGACCATGGCACA
CCATCTGACCGAGATCCTGGGAGAGCAGCTGCTGAGGAACACCCTAGAGGGATTGCTGGTTGACAGCATG
CCCTCGCCAGAGCAGCTTCGGGGGAAGATCTTGGTGAAGGAAAGAAAGTTAAGAACAATTGAAGTTGACA
AGGAAGAAGAAGAAGAAGAAGAAGAAGAGCTGGAGAAAGTGAAGGGCCAGATCTGGACCCAGCCTC
CCCTGAGTTGGACTCAACCTCAGCCTGAGACCCAGGGCAGGCCGCTGGGAACAAGAAGGAGAGGAAG
AAGAAGGTTATGAAGTGTCCGATGTCTTGTCTGCTTATCTGTGGTATGTTATGGCCAGGCTCCTAGTT
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CCTATCTGCCCTGGTTGCTACTTGAGGACTGTCCCCTTCTGCAGCTTCACTCATTCAAAGAAAACCTAC
CACATCTATGACATTTTCATCTTTCTGAGTCCAAGGCCAAGAACCTCATCAAGGAGGCAGGCAACGAGT
TTGTACAGCACAATGCCAGACAGTTATGCCGCGTGTATCCCAGTGGTCTGAGGACAGATTATCCAACCT
TAACCCCAAGAACACTGGAATGTAGGCTGCCAGATGGTGGCTATGAATATGCAGACTGCAGGAAGTGCA
ATGGATATCTGTGATGGGCTCTCCGCCAGAATGGTGGCTCTGGCTATGTGCTGAAGCCAGAATTCCTGA
GAGATACCCAGAGTTCAATCACTGAGAGGCCAATTAGTCTTTATAAGGCCAGATCCTGTAGTCCA
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TTAATCCATACTGGGGGAGACTTCTATTTCCGGCTCCAGTACCTGAACTTGCATGTTGCGTTTTGTG
GGTAAAGGATTATAGCAGGAAATCCCGAAATAACTTTATTGGCCAATACACCCTACCTTGGACCTGTATG
AAACAAGGCTACCGACATGTATCCTTGCTCTCCAGAGATGGCACTAGCCTCAATCCAGCTTCCATCTTTG
TATACACCTGCATGCAGGAAGACCTGGATATGGATGAGCCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR218890 representing NM_148937
Red=Cloning site Green=Tags(s)

MTSQIQDLLATDQDLLLMQEGTMMRKVRTKSWKKLRYFRLQNDGMTVWHGSQPESMPKPTFSISDVERIR
KGQDSELLRYLVEEFLEQGFTVVFHGRRPNLDLVANSVEEAQIWMRGLQLLVDLVASMDHQEQMDQMLN
EWFQQADRNQDGRMSFREARLLLLMNVEMDEEYAFSLFQEADVTQSDDLGSEEFVQFYKALTKRTEIEE
IFEDFSSDKQKLTLLFVDFLRKEQKEKDHPDLALELIDRYEPSENGRLLHVLKDGFLKYLCSKDGNL
FNSDCLPIYQDMTQPLSHYYINSSHNTYLVDQLCGQSSVEGYIRALKRGCRCVEVDTWDGPDGEPVVYH
GHTLTSRILFKDVLATLAQYAFQSSDYPLILSLENHCTWEQQRMAHHLTEILGEQLLRNTLEGLLVDSM
PSPEQLRGKILVKGKLRITIEVDKEEEEEEEEELEKDEGPDLPASPELDTQPQPETQQQAAGNKKERK
KKVMKCPMSCLLICGHVMAQAPSSIPESILLKQFLLLSSTTIMCPDLSALVVYLRTVPFCSTHSKENY
HIYDISSFSEKAKNLIKEAGNEFVQHARQLCRVYPSGLRTDSSNFPQEHWNVGCQMAMNMQTAGSA
MDICDGLFRQNGSGYVLKPEFLRDTQSSFNPERPISLYKAQILVVQVISGQQLPKVDKTKETTVDPLV
KVELYGPEDTKEQETSHVENNGINPYWGETFYFRLQVPELAMLRFVVKDYSRKSRRNFIQYTLPTWTCM
KQGYRHVSLLSRDGTSLNPASIFVYTCMQEDLDMDEP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9094_g11.zip

Restriction Sites: Sgfl-Mlul

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_148937.2](#), [NP_683739.2](#)

RefSeq Size: 2981 bp

RefSeq ORF: 2424 bp

Locus ID: 18802

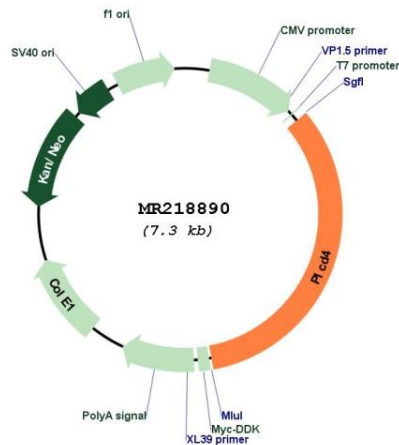
UniProt ID: [Q8K3R3](#)

Cytogenetics: 1 38.54 cM

MW: 92.7 kDa

Gene Summary: Hydrolyzes the phosphatidylinositol 4,5-bisphosphate (PIP2) to generate 2 second messenger molecules diacylglycerol (DAG) and inositol 1,4,5-trisphosphate (IP3). DAG mediates the activation of protein kinase C (PKC), while IP3 releases Ca(2+) from intracellular stores. Required for acrosome reaction in sperm during fertilization, probably by acting as an important enzyme for intracellular Ca(2+) mobilization in the zona pellucida-induced acrosome reaction. May play a role in cell growth. Modulates the liver regeneration in cooperation with nuclear PKC. Overexpression up-regulates the Erk signaling pathway and proliferation.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR218890