

Product datasheet for **MG218890**

Plcd4 (NM_148937) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Plcd4 (NM_148937) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Plcd4
Synonyms:	4921507K24Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG218890 representing NM_148937
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGACATCTCAGATTCAAGACCTACTAGCCACTGATCAGGACCTGCTGCTGATGCAAGAAGGCACAATGA
 TCGCAAGGTGAGGACCAAAAAGCTGGAAGAAGCTAAGATACTTCAGACTTCAGAATGACGGCATGACAGT
 CTGGCATGGAAGTCAACCAGAAAGCATGCCAAGCCCACTTTTTCGATCTCTGATGTGGAGAGGATACGT
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 TCTTTCATGGGCGCCGCCAACCTGGACCTAGTGGCCAACAGTGTGAAGAGGCCAGATTTGGATGCG
 AGGACTCCAGCTGTTGGTGGATCTTGTGCCAGCATGGACCACCAGGAGCAAATGGATCAAATGTTGAAT
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 TGATGATCTGGGGTCGGAAGAATTTGTACAGTTCTATAAGGCCCTGACTAAGCGCACTGAGATTGAAGAA
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 GGCAGTACCCTGACCTCTCGCATCTTCAAAAGATGTGTGGCAACTCTCGCGCAATATGCCTTCCAGT
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 AAACAAGGCTACCGACATGTATCCTTGCTCTCCAGAGATGGCACTAGCCTCAATCCAGCTTCCATCTTTG
 TATACACCTGCATGCAGGAAGACCTGGATATGGATGAGCCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG218890 representing NM_148937
 Red=Cloning site Green=Tags(s)

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MTSQIQDLLATDQDLLLMQEGTMMRKVRTKSWKKLRYFRLQNDGMTVWHGSQPESMPKPTFSISDVERIR
KGQDSELLRYLVEEFPLEQGFTVVFHGRRPNDLVANSVEEAQIWMRGLQLLVDLVASMDHQEQMDQMLN
EWFQQADRNQDGRMSFREARLLLLMNVEMDEEYAFSLFQEADVTQSDDLGSEEFVQFYKALTKRTEIEE
IFEDFSSDKQKLTLLFVDFLRKEQKEKDHPDLALELIDRYEPSENGRLLHVLKDGFLKYLCSKDGNL
FNSDCLPIYQDMTQPLSHYYINSSHNTYLVDQLCGQSSVEGYIRALKRGCRCVEVDTWDGPDGEPVVYH
GHTLTSRILFKDVLATLAQYAFQSSDYPLILSLENHCTWEQQRMAHHLTEILGEQLLRNTLEGLLVDSM
PSPEQLRGKILVKGKLRITIEVDKEEEEEEEEELEKDEGPDLPASPELDTQPQPETQQAAGNKKERK
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MDICDGLFRQNGSGYVLKPEFLRDTQSSFNPERPISLYKAQILVVQVISGQQLPKVDKTKETTVDPLV
KVELYGPEDTKEQETSHVENNGINPYWGETFYFRLQVPELAMLRVVKDYSRKSRRNFIQYTLPTWTCM
KQGYRHVSLLSRDGTSLNPASIFVYTCMQEDLDMDEP
  
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TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

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

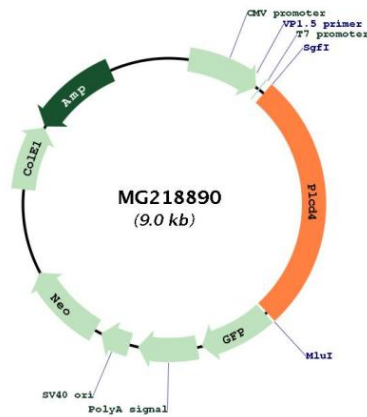
Locus ID: 18802

UniProt ID: [Q8K3R3](#)

Cytogenetics: 1 38.54 cM

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 MG218890