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Product datasheet for MC224044

Plch2 (NM_175556) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Plch2 (NM_175556) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Plch2
Synonyms:	A930027K05Rik; Plc-eta2; PLCeta2; Plcl4
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

Fully Sequenced ORF:

>MC224044 representing NM_175556
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGCGGACTGGCCTGGGGACCATCCAGGGCCGCAGGCAGCAGTTGGGTCAATGCCAGTGGGACCTGGG
AACAGCCCTTGCGGGGCTTCAGTGGGCTCCAAGGAGGAAGACGAAGAGGTAGAGGAGAGAAGGGGATCCC
TGAGGAGCCCCTGTGCCAGCTGACACCTCAGCTTGGCCTGTCGCTGAGGGTCCCTTTTGGCTTGGGGGAC
TACGGCTTGGATATGCCTGGTCCCCAGCCGTCTGCTGCCAGCCAGACCACAGGAGCCGTGGCTTGCCTGG
CAGAGGTACTCCTCTGGGTTGGAGGGAGCGTGGTAGTGTCACCAAGATGGCAGCTCAGCCTTGTAGTGGA
GCGATGCATGAGTGCCATGCAAGAGGGGACCCAGATGGTGAAGCTCCGTGGCAGCTCCAAGGGATTGGTC
CGCTTCTACTACCTGGATGAGCACCGCTCCTGCCTCCGATGGCGTCCCTCCCGCAAGAACGAGAAAGCCA
AGATTTCCATCGACTCCATCCAGGAGGTGAGTGAGGGCCGGCAGTCTGAAATCTTCCAGCGCTACCCGGA
CAGCAGCTTTGACCCCAACTGCTGCTTCAGCATCTACCATGGCAGCCACAGAGAGTCGCTGGACTTGGTC
TCACCCAGCAGTGAAGAGGCACGTACCTGGGTCACCGGCCTTCGCTACCTCATGGCTGGCATCAGCGATG
AAGACAGCCTAGCCCGTCGCCAGCGTACCAGGGACCAGTGGCTGAAGCAGACGTTTGATGAGGCTGACAA
GAACGGGGACGGCAGCCTGAGCATCAGTGAGGTTCTGCAGCTGCTACATAAACTCAACGTGAACCTGCCC
CGGCAGAGGGTGAAACAGATGTTCAGGGAGGCGGACACAGATGACCATCAGGGGACATTAGGCTTTGAGG
AATTCTGCGCCTTCTACAAGATGATGTCTACCCGCCGAGACCTCTACCTGCTCATGCTGACCTACAGCAA
CCATAAGGACCACTTGGATGCCTCCGACCTGCAGCGCTTTCTGGAGGTGGAGCAGAAGATGAACGGTGTG
ACCCTGGAGAGCTGTCAGAACATCATTGAGCAGTTTGAGCCTTGCCTGGAAAATAAGAGCAAGGGGATGC
TGGGGATTGATGGCTTTACCAACTACACCCGGAGCCCCGCCGGTGACATCTTCAACCCTGAGCACAACAG
AGTGCACCAAGACATGACGCAGCCGCTGAGTCACTACTTCATCACCTCGTCCCACAACACCTACCTCGTG
GGTGACCAGCTCATGTCCCAGTCTCGGGTGGACATGTATGCCTGGGTCCTGCAGGCCGGCTGCCGCTGTG
TGGAGGTGGACTGCTGGGACGGGCCCGATGGAGAACCCATTGTCCATCATGGCTACACTCTGACCTCCAA
GATCCTTTTCAAAGATGTCATCGAAACCATCAACAAATACGCCTTCATCAAGAATGAGTACCCAGTGATC
CTGTCCATTGAGAACCACTGTAGTGTTGTTCAGCAGAAGAAGATGGCCCAGTATCTGACTGACATCCTCG

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GGGACAAGCTGGACCTCTCCTCAGTGAGCAGCGAAGATGCCACCATGCTTCCATCTCCACAGATGCTCAA
GGGCAAGATCCTGGTGAAGGGGAAGAAGCTCCCTGCCAATATCAGTGAGGATGCAGAAGAAGGCGAAGTA
TCTGATGAGGACAGTGCTGATGAGATGGAGGATGACTGCAAGCTCCTCAATGGGGATGCCTCCACCAATC
GGAAGCGTGTGGAAAACATTGCAAAGAAGAAGCTGGATTCTCTGATCAAGGAGTCAAAGATCCGTGACTG
TGAAGACCCCAATGACTTCTCTGTGTCCACACTATCCCCCTCTGGAAAGCTTGGGCGCAAAGCAGAGGCC
AAGAAGGGTCAGAGCAAGGTTGAGGAAGACGTGGAGGCCGGGGAAGACAGCGGGGTGAGCAGGCAGAATA
GCCGCCTCTTCATGAGCAGCTTCTCCAAGCGCAAGAAAAAAGGCAGCAAGATAAAGAAGGTGGCCAGCGT
GGAAGAGGGGGACGAGACCCTGGACTCCCCAGGAAGCCAGAGCCGAGGGACTGCCCGGCAAAAGAAGACC
ATGAAGCTGTCACGAGCCCTCTCGGACCTAGTGAAATATACCAAGTCTGTGGGGACCCATGACGTGGAGA
TAGAGGTGGTATCTAGCTGGCAGGTGTCGTCCTTCAGTGAGACCAAGGCCCATCAGATCCTGCAGCAGAA
GCCCACCCAGTACCTGCGCTTCAACCAGCACCAGCTCTCGCGCATATACCCCTCCTCCTACCGTGTGGAC
TCCAGCAACTACAATCCACAACCCTTCTGGAACGCTGGTTGCCAGATGGTTGCCCTGAACTACCAGTCAG
AGGGGCGGATGCTACAGCTGAACAGGGCCAAGTTCAGCGCCAACGGTGACTGTGGCTACGTGCTCAAACC
CCAGTGCATGTGCCAGGGTGTCTTCAACCCCAACTCGGAGGATCCCCTGCCGGGGCAGCTCAAGAAGCAG
CTGGCCCTGAGGATCATCAGTGGCCAGCAGCTGCCCAAACCACGGGACTCGGTGCTGGGCGACCGTGGGG
AGATCATCGACCCCTTCGTGGAGGTGGAGGTCATTGGGCTCCCCGTGGACTGCAGCAAGGAGCAGACCCG
AGTGGTGGACGACAACGGATTCAACCCCATGTGGGAGGAGACACTGGTGTTCACCGTGCACATGCCAGAG
ATTGCGCTTGTACGCTTCCTGGTCTGGGACCATGACCCCATTGGACGTGACTTCATCGGCCAGAGGACAC
TAGCCTTCAGCAGCATAATGCCAGGCTACCGGCATGTGTACCTAGAAGGGATGGAAGAGGCCTCTATCTT
TGTTCATGTGGCTGTCAGTGACATTAGTGGTAAGGTCAAGCAGACTCTGGGTCTAAAAGGTCTCTTCCTC
CGAGGCACAAAGCCAGGCTCGCTGGACAGTCATGCTGCTGGACAGCCCCTCCCCCGGCCCTCCGTTAGCC
AGAGGCTCCTGCGGCGCACGGCCAGTGCCCCGACCAAAAGCCAGAAGCCAAGTCGCAAGGGCTTCCCAGA
GCTGGCCCTGGGCACACAGGACGCAGGCTCCGAGGGGGCAGCTGATGACGTGGCACCCTCTAGCCCCAAC
CCAGCTCTGGAGGCCCCTACTCAAGAGAGGTCAGGCAGCAGCAGCCCCCGAGGTAAGGCACCAGGAGGAG
AAGCAACAGAAGAGAGGACACTGGCACAGGTGCGGTCCCCAAATGCCCCCGAAGGCCCTGGACCTGCAGG
GATGGCCGCCACATGCATGAAGTGTGTGGTGGGCTCCTGCGCCGGTATGGACGTTGAGGGCCTTCAAAGG
GAGCAACAACCCAGCCCTGGGCCTGCAGGCAGCCACATGGCCATCAGCCATCAGCCCAGGGCCCGGGTAG
ATTCACTGGGGGGCCCTTGCTGCAGCCCAAGTCCTCGAGCCACCCCAGGGAGAAGCAAAGAGGCCCCCAA
GGGTCCTAGGGCTCGGCGCCAGGGTCCAGGCGGCGGCTCTGTGTCCTCGGACTCCAGCAGCCCAGACAGC
CCAGGCAGCCCCAAGGTGGCCCCCTGCCAGCCGGAGGGTGCTCACAGGCAGCAGGGGGCGCTGCAGGGAG
AGATGAACGCCTTGTTCGTTCAAAAGCTGGAGGAGATCAGGAGTCATTCCCCCATGTTCTCCACCGTTAG
GGATTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_175556

Insert Size: 3717 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).

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_175556.4, NP_780765.2
RefSeq Size:	5598 bp
RefSeq ORF:	3717 bp
Locus ID:	269615
UniProt ID:	A2AP18
Cytogenetics:	4 E2
Gene Summary:	The production of the second messenger molecules diacylglycerol (DAG) and inositol 1,4,5-trisphosphate (IP3) is mediated by activated phosphatidylinositol-specific phospholipase C enzymes. This phospholipase activity is very sensitive to calcium. May be important for formation and maintenance of the neuronal network in the postnatal brain.[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (1) uses an alternate splice site and contains an alternate exon in the 3' coding region, resulting in an early stop codon, compared to variant 1. It encodes isoform a, which is shorter and has a distinct C-terminus, compared to isoform b.