

## Product datasheet for **MR206779**

### **Plekha2 (NM\_031257) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Plekha2 (NM_031257) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Plekha2
Synonyms:	6430512N22Rik; AI851530; AU041791; TAPP2; W91773
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide  
Sequence:

>MR206779 ORF sequence  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGCATCGCC**

ATGCCTTATGTGGATCGGCAGAACCGAATCTGTGGTTTCTGGATATTGAAGACAATGAGAACAGTGGCA  
AATTCCTCCGGAGATACTTTATCCTGGATACCCAGGCCAACTGCCTCCTCTGGTACATGGACAATCCCCA  
GAACCTGGCCGTTGGGGCAGGAGCTGTCGGATCTCTGCAGCTGACCTACATCTCGAAGGTGAGCATAGCT  
ACCCCAAAGCAGAAACCTAAAACACCATCTGCTTCGTTATCAATGCCCTGTCTCAGAGATATTTTCTTC  
AAGCCAATGACCAGAAAGATCTGAAGGACTGGTGAAGCCTGAACCAAGCCAGCAAGTCACTGTACC  
CAAAGCTGGGACAGTACCCTGGCCACAGAAGTTCTCAAAACTTAACAGCTCCTCCACCCTAGAGAAG  
AAGCCGACAGTGGCCTACAAGACTGAGATCATCGGGGTGTGGTGTACAAACGCCTATCAGCCAGAACG  
GTGGGGATGGGCAGGAAGGTGCGAGCCAGGACTCACGCCTTCCTGCGAAGGTCTCAGAGCTACATCCC  
CACGTGAGGCTGCCGCCCTTCCACTGGGCTCCCCTCATTAAAGAGTGGCTACTGTGTGAAGCAAGGGAAT  
GTGCGGAAGAGTTGAAAACGACGCTTCTTTGCCCTCGATGACTTTACCATCTGCTACTTCAAGTGTGAGC  
AGGACAGAGAGCCTCTGCGTACCATACCCTCAAGGATGTTCTCAAGACTCACGAGTGTCTGGTCAAGTC  
TGGTGATCTTTAATGAGGGACAACCTGTTTGAATCATAAACACCTCCAGGACGTTCTACGTACAGGCG  
GACAGCCTGAGGACATGCACAGCTGGATCGAGGGGATTGGAGCAGCTGTCCAGGCTCTGAAGTGCCACC  
CTAGGGAGCCGTCCTTTTCAAGTCCATTTCTTTGACTCGACCTGGAAGTTCTACCTTACAAGCGCGCC  
TAACTCCATCTTGCAAGAAGCGGCCACCAGCAGAAGAGAAAAGAGTCTCTGTAAGGCCCTTCGGTG  
GCCTCCTCTGGCAACCTGGACACCTGTCCCCAGGCTGAGGAAAAGCCGTTGTGCGTGGAGCATGCTC  
CAGAGGACTCTCTATTCATGCCTAACCTGGGGAGAGCACAGCTACAGGGGTGCTGGCAAGTTCTCGAGT  
CAGGCACAGGTGCGAGCCCAAGCAGCCCAAGGAGAAGCCATTTGATTCAACCTTGATGACGAAAACATA  
CGAACCTCTGATGTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

## Protein Sequence:

>MR206779 protein sequence  
Red=Cloning site Green=Tags(s)

MPYVDRQNRICGFLDIEDNENSGKFLRRYFILDQTANCLLWYMDNPQNLAVGAGAVGSLQLTYISKVSIA  
TPKQKPKTPFCFVINALSQRVFLQANDQKLDKWVEALNQASKITVPAKAGTVPLATEVLKNTAPPTLEK  
KPQVAYKTEIIGGVVVQTPISQNGGDGQEGCEPGTHAFLRRSQSYIPTSGCRPSTGPPLIKSGYCVKQGN  
VRKSWKRRFFALDDFTICYFKCEQDREPLRTIPLKDVLTKECLVKSDDLMDNLFEEITTSRTFYVQA  
DSPEDMHSWIEGIGAAVQALKCHPREPSFSRSISLTRPGSSTLTSAPNSILSRRRPPAEEKRGLCKAPSV  
ASSWQPWTPVPQAEKPLSVEHAPEDSLFMPNPGESTATGVLASSRVRHRSEPQHPKEKPFVFNLDDENI  
RTSDV

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

## Restriction Sites:

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_031257

**ORF Size:** 1278 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\\_031257.2](#), [NP\\_112547.1](#)
**RefSeq Size:** 4992 bp

**RefSeq ORF:** 1278 bp

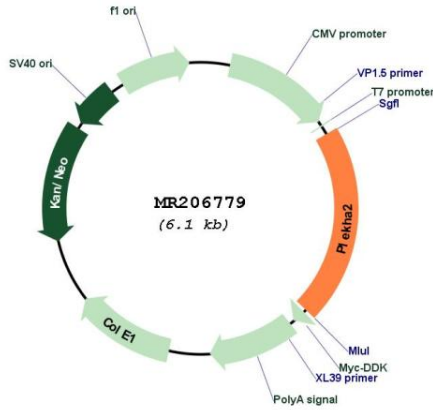
**Locus ID:** 83436

**UniProt ID:** [Q9ERS5](#)
**Cytogenetics:** 8 A2

**MW:** 47.4 kDa

**Gene Summary:** Binds specifically to phosphatidylinositol 3,4-diphosphate (PtdIns3,4P2), but not to other phosphoinositides. May recruit other proteins to the plasma membrane.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR206779