

## Product datasheet for **RC203633**

### **PLEKHA4 (NM\_020904) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PLEKHA4 (NM_020904) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PLEKHA4
Synonyms:	PEPP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide  
Sequence:

>RC203633 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAGGGGAGCCGACCTCGCAGCAGCCTGAGCCTGGCCAGCAGCGCCTCCACCATCTCCTCGCTCAGCA  
 GCCTGAGCCCCAAGAAGCCACCCGGGCAGTAAACAAGATCCACGCCCTTTGGGAAGAGAGCAATGCGCT  
 CAGGAGGGATCCCAACCTTCCCCTGCACATCCGAGGCTGGCTTATAAGCAGGACAGCTCGGGGCTCCGT  
 CTCTGGAAACGCCGCTGGTTTCGTCCTCTCCGGCATTGCCTCTTTTATTACAAGGACAGCCGCGAGGAGA  
 GTGTCCTAGGCAGCGTCTGCTCCCGAGCTACAATATTAGACCAGATGGGCCGGGAGCCCCGAGGGCG  
 GCGCTTACCTTACCAGCAGACACCCGGGCATGAGGACCTACGTTTTGGCCGCTGACACCTTAGAAGAC  
 CTGCGGGGCTGGTACGGGCGCTGGGCCGGCCCTCCCGTCCGGAGGGGGACGACTATGGCAACCCAGGT  
 CACCTGCACGACCCAGCCGGGAGGGCCCCGGCGGCCCGGTGGTCCCCGGAGGTGAGCAGAGGGGA  
 AGAGGGGGCGCATCTCAGAATCACCGGAAGTGACTCGACTCTCCAGAGGTCTGGTAGACCAGGCTGCTC  
 ACTCCCAGCCCCACAACCGACCTCCACTCTGGACTCCAGATGCGGAGGGCGAGGACCCCGACCTGTTC  
 CCCCCCTCTCTCGCCCTCCCTCGCCTCTGAGCCTCCCCCGTCCCCGTTCTGCCCTGCGCGGCGACCCCC  
 TGCCCCCTCAGGAGACACAGACCCCTGCCCGACCTCACACCCCGTTGAGTCGCATTGATGTCGACCT  
 CCTCTGGATTGGGGCCCCAACGCCAGACCCCTCTCCCGACCCCTACTCCCCGCCGAGGACCTCCCTCTG  
 AGGCTGGGGGAGGAAAGCCCCCAGGAGTCCCCAGCACTGGAGTCAGGAGCCAGAACACAGGCACACTC  
 TGGCTCCCCACTTATCTCCAGCTCCCCCGGGCCCCCTGGGACCCGGGCTCCATGGTTTTATTGCCG  
 GGTCTCCCCTGGAGTCAACTTTCACCAAAGCTTGGAGACAGATACGCTGCTGACCAAGTTGTGCGGGC  
 AGGACTCTGGAGTTGACCCGGCAACAGCTGGGCCAAGCCACCAGGGAGGCTGGGGCTCCCGGAGGGCCTGG  
 GGTCCGACAGCCCTTTGAGGACCGGCTGGTCACTGTGAGGGCCACCCTCTGTCACTTACTCAGGAGC  
 GAGAGAGGGTTTTGGGACAGTACAGTGGCCTGGAGCAGGAGCTGGGCACCTTAAGAGAGACGCTGGAGTA  
 CCTGCTGCACCTTGGTTCTCCCGAGCAGAGTGTCTGCTCAGCAGCAGCTGTGGATGGTGGAGACAG  
 CTGGCAGGTCTGGGTGGCCCCAGAAACCGCCCCACACACTGAGCCTGACTCCCCATCTCCCGTCTCC  
 AGGGCGAGGAGTCTCAGAGAGGAGAGCCTGCCAGAGTCTTGGAACTGAGCTCCCTAGGTCCCCCGA  
 GACTGACTGGGGCGGCCTCTGGAGGCGACAAAGACCTGCCAGCCCTCACTTAGGTCTTGGGTCTCCG  
 AGGGTCTCCCGGGCTTCCAGCCCTGAGGGTCCGCCACCTCCCTTCCCACAGCTAGGAACCAAGGCCCGG  
 TGGCCCGCCCCGGATGAGTGCCAGGAGCAGCTGGAGCGGATGCGCAGAAACCAGGAATGTGGACGGCC  
 TTCCCTCGCCCGACCTCCCCCGGCTTCTCACCTGGGAAGGACACTGTCCCCAGCCAGACGCCAGCCT  
 GACGTGGAGCAAAGGCCTGTCTGAGGACTCGGGAGCCAGAAATGGCTCAGAAGCTCTGGGTCCTGGA  
 GTAGTCCAAGGAACACCCCTTACTTCCGACTTCCGAAGGTACCCGGAGCGGGTTCTCAGCCTCTC  
 CCAAGCCCTGGCTACTGAGGCGTCGAGTGGCACAGAATGATGACAGGTGGAAATTTGGACTCCCAGGGA  
 GACCCTTCCCGGTGTGCCGCTGCCTCCTCGGACCCACGCGCCAGGAGACCCCTCCCCCAGATCTC  
 CCCCCTGGCTAATTCGGGTTCCACGGGTTCTCTCGCCGAGGGAGTGGGCGTGGAGGAGTCCCACCC  
 CTGGGGGCCCCGCTGGGATGCCGGATCGCCCCCTCCGGTCTGCCACAAGACGAGGGGGCATGGCCTCTG  
 CGAGTCACTCTGCTACAATCCAGCTTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC203633 protein sequence  
Red=Cloning site Green=Tags(s)

MEGSRPRSSLSASSASTISSLSLSPKKPTRAVNKIHAFGKRGNALRRDPNLPVHIRGWLHKQDSSGLR  
LWKRRWFVLSGHCLFYYKDSREESVLGSVLLPSYNIRPDGPGAPRGRFFFTAETHPGMRTYVLAADTLED  
LRGWLRLGRASRAEGDDYGQPRSPARPQPGEGPGGPGPPEVSRGEEGRISESPEVTRL SRGRGRPRLL  
TPSPTTDLHSGLMRRARSPDLFTPLSRPPSPLSLPRPSAPARRPPAPSGDTAPPARPHPLSRIDVRP  
PLDWGPQRQTL SRPPTPRRGPPSEAGGGKPPRSPQHWSQEPRTQAHSGSPTYLQLPPRPPGTRASMVLLP  
GPPLESTFHQSLETDLLTKLCGQDRLLRRLQEEIDQKQEEKEQLEAALELTRQQLGQATREAGAPGRAW  
GRQRLLDRLVSVRATLCHLTQERERVWDYSGLEQELGTLRETLEYLLHLGSPQDRVSAQQQLWMVEDT  
LAGLGGPQKPPPHTEPDSPPVLQGEESERESLPESELSPPRSPETDWGRPPGGKDLASPHLGLGSP  
RVSRASSPEGRHLPSPQLGTKAPVARPRMSAQELERMRRNQECGRPFPRPTSPRLTLGRTLSPARRQP  
DVEQRPVVGHSGAQKWLRSRGSWSSPRNTTPYLPTSEGHRERVLSQLALATEASQWHRMMTGGNLDSQG  
DPLPGVPLPPSDPTRQETPPRSPVANSSTGF SRRGSGRGGGTPWGPAPWDAGIAPPVLPQDEGAWPL  
RVTL LQSSF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6690\\_h07.zip](https://cdn.origene.com/chromatograms/mk6690_h07.zip)

**Restriction Sites:** Sgfl-Mlul

**Cloning Scheme:**



**ACCN:** NM\_020904

**ORF Size:** 2337 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\\_020904.3](#)

**RefSeq Size:** 3104 bp

**RefSeq ORF:** 2340 bp

**Locus ID:** 57664

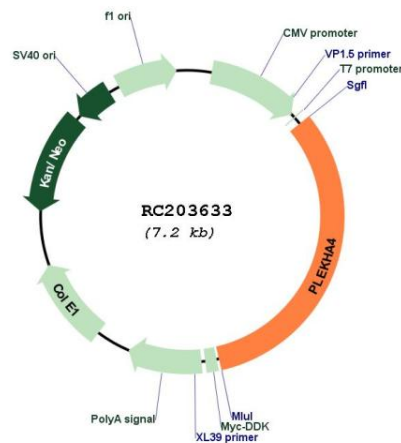
**UniProt ID:** [Q9H4M7](#)

**Cytogenetics:** 19q13.33

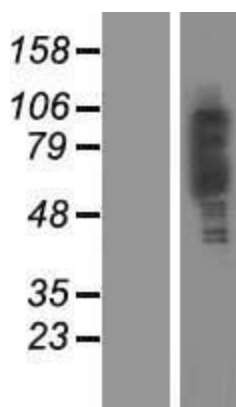
**MW:** 85.4 kDa

**Gene Summary:** This gene encodes a pleckstrin homology (PH) domain-containing protein. The PH domain is found near the N-terminus and contains a putative phosphatidylinositol 3, 4, 5-triphosphate-binding motif (PPBM). Elevated expression of this gene has been observed in some melanomas. Alternate splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, May 2017]

### Product images:



Circular map for RC203633



Western blot validation of overexpression lysate (Cat# [LY412209]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203633 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).