

## Product datasheet for RC205999

### DPPA4 (NM\_018189) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	DPPA4 (NM_018189) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DPPA4
Synonyms:	2410091M23Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC205999 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGCATCGCC

ATGTTGCGAGGCTCCGCTTCTTCTACAAGTATGGAGAAGGCAAAAGGCAAGGAGTGGACCTCCACAGAGA  
 AGTCGAGGGAAGAGGATCAGCAGGCTTCTAATCAACCAAAATTCATTGCTTTGCCAGGAACATCAGCAAA  
 GAGAACCAAGAAAAATGTCTGTCAAAGGCAGTAAAGTGCTCTGCCCTAAGAAAAAGGCAGAGCAGCACT  
 GACAACCCAGACCTCAGAAGAAGATACCAATCCCTCCATTACCTTCTAACTGCCACCTGTTAATCTGA  
 TTCACCGGACATTCTGCGGGCCTGGTGCCAACAATTGAAGCTGAGCTCCAAAGGCCAGAAATTGGATGC  
 ATATAAGCGCCTGTGTGCCTTTGCCTACCCAAATCAAAAGGATTTTCTAGCACAGCAAAAGAGGCCAAA  
 ATCCGGAATCATTGCAAAAAAATTAAAGGTGAAAAAGGGGAAACGTCCTGCAAAAGTTCTGAGACAC  
 ATCCTCCTGAAGTGGCTTCTCCTCCTGTGGGGAGCCGCTGCCCTGGAAAATCCACTGCTCTCCTTGA  
 GGGAGTTAATACAGTTGTGGTGACAATTCTGCCCCAGAGGCTTTGCTGGCCTCCTGGGCGAGAATTTCA  
 GCCAGGGCGAGGACACCAGAGGCAGTGAATCTCCACAAGAGGCCTCTGGTGTCAAGTGGTGTGGTCC  
 ATGGGAAAAGTCTCCCTGCAGACACAGATGGTTGGGTTACCTGCAGTTTCATGCTGGTCAAGCCTGGGT  
 TCCAGAAAAGCAAGAAGGAGAGTGAGTGCACTCTTCTTGCTTCTGCTCCCAATTTCCACCCCGCAC  
 CTTGAAGACAATATGTTGTGCCCAATGTGTTACAGGAACAAGGTCTTAATAAAAAGCCTCCAATGGG  
 AA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA


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**Protein Sequence:** >RC205999 protein sequence  
 Red=Cloning site Green=Tags(s)

MLRGSASSTSMKAKGKEWTSTEKSREEDQQASNQPNISIALPGTSAKRTKEKMSVKGSKVLCPPKKAHT  
 DNPRPQKKIPIPLPSKLPPVNLIHRDILRAWCQQLKLSKGGQKLDAYKRLCAFAYPNQKDFPSTAKEAK  
 IRKSLQKKLKVEKGETSLQSSETHPPEVALPPVGEPALENSTALLEGVNTVVVTTSAPEALLASWARIS  
 ARARTPEAVESPQEASGVRWCVVHGKSLPADTDGWVHLQFHAGQAWVPEKQEGRVSALFLLPASNFPPPH  
 LEDNMLCPKCVHRNKVLIKSLQWE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6319\\_b11.zip](https://cdn.origene.com/chromatograms/mk6319_b11.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_018189

**ORF Size:** 912 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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [NM\\_018189.2](#), [NP\\_060659.2](#)

**RefSeq Size:** 2823 bp

**RefSeq ORF:** 915 bp

**Locus ID:** 55211

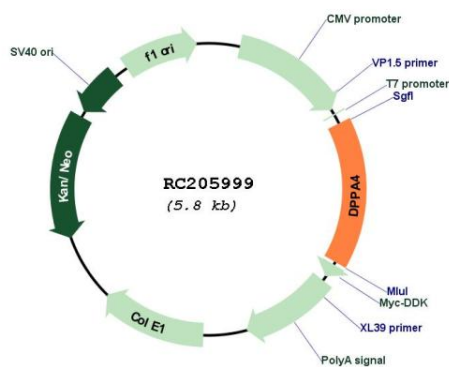
**UniProt ID:** [Q7L190](#)

**Cytogenetics:** 3q13.13

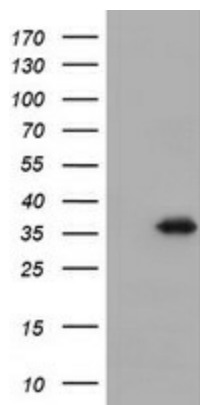
**MW:** 33.5 kDa

**Gene Summary:** This gene encodes a nuclear factor that is involved in the maintenance of pluripotency in stem cells and essential for embryogenesis. The encoded protein has a scaffold-attachment factor A/B, acinus and PIAS (SAP) domain that binds DNA and is thought to modify chromatin. Mice with a homozygous knockout of the orthologous gene die during late embryonic development or within hours after birth. Knockout embryos are normal in size at embryonic day 18.5 but exhibit skeletal and lung tissue abnormalities. This gene, when mutated, is highly expressed in embryonal carcinomas, pluripotent germ cell tumors, and other cancers and is thought to play an important role in tumor progression. Multiple pseudogenes of this gene have been identified. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2017]

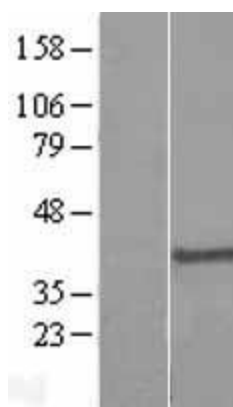
## Product images:



Circular map for RC205999



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY DPPA4 (Cat# RC205999, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-DPPA4 (Cat# [TA800026]). Positive lysates [LY413234] (100ug) and [LC413234] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY413234]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205999 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).