

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
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC205999 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGTTGCGAGGCTCCGCTTCTTCTACAAGTATGGAGAAGGCAAAAGGCAAGGAGTGGACCTCCACAGAGA
AGTCGAGGGAAGAGGATCAGCAGGCTTCTAATCAACCAAATTCATTGCTTTGCCAGGAACATCAGCAAA
GAGAACCAAGAAAAAATGTCTGTCAAAGGCAGTAAAGTGCTCTGCCCTAAGAAAAAGGCAGAGCACACT
GACAACCCAGACCTCAGAAGAAGATACCAATCCCTCCATTACCTTCTAAACTGCCACCTGTTAATCTGA
TTCACCGGGACATTCTGCGGGCCTGGTGCCAACAATTGAAGCTGAGCTCCAAAGGCCAGAAATGGATGC
ATATAAGCGCCTGTGTGCCTTTGCCTACCCAAATCAAAAGGATTTTCTAGCACAGCAAAAGAGGCCAAA
ATCCGGAATCATTGCAAAAAAATTAAGGTGGAAAAGGGGAAACGTCCTGCAAAAGTTCTGAGACAC
ATCCTCTGAAGTGGCTTCTCCTGTGGGGAGCCGCTGCCCTGGAAAATTCCACTGCTCTCCTTGA
GGGAGTTAATACAGTTGTGGTGACAATCTGCCCCAGAGGCTTGTCTGGCCTCCTGGGCGAGAATTTCA
GCCAGGGCGAGGACACCAGAGGCAGTGAATCTCCACAAGAGGCCTCTGGTGTCAAGTGGTGTGGTCC
ATGGGAAAAGTCTCCCTGCAGACACAGATGGTTGGTTACCTGCAGTTTCATGCTGGTCAAGCCTGGGT
TCCAGAAAAGCAAGAAGGAGAGTGAGTGCACTTCTTGTCTTCCCTGCTTCAATTTCCACCCCGCAC
CTTGAAGACAATATGTTGTGCCCAAATGTGTTACAGGAACAAGGTCTTAATAAAAAGCCTCAATGGG
AA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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

MLRGSASSTSMEKAKGKEWTSTEKSREEDQQASNPNSIALPGTSAKRTKEKMSVKGSKVLCPPKKAHT
 DNPRPQKKIPIPLPSKLPVNL IHRDILRAWCQQLKLSKGQKLDAYKRLCFAFYPNQKDFPSTAKEAK
 IRKSLQKLLKVEKGETSLQSSETHPPEVALPPVGEPPALENSTALLEGVNTVVVTTSAPEALLASWARIS
 ARARTPEAVESPQEAAGVSRWCVVHGKSLPADTDGWWHLQFHAGQAWVPEKQEGRVSALFLLPASNFPPPH
 LEDNMLCPKCVHRNKVLIKSLQWE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

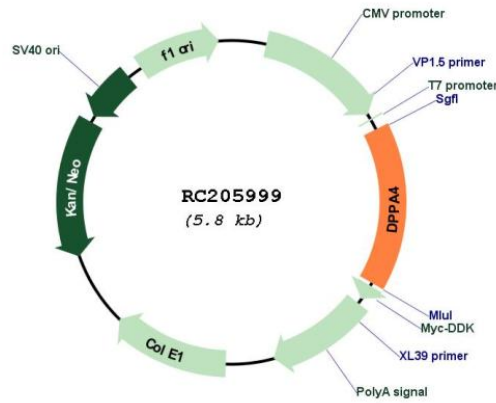
Chromatograms: https://cdn.origene.com/chromatograms/mk6319_b11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



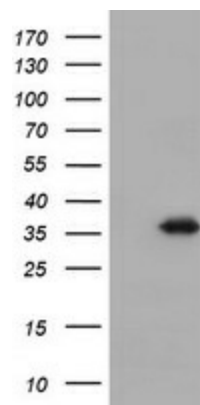
Plasmid Map:



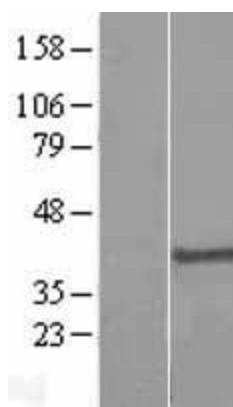
ACCN: NM_018189

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.
RefSeq:	NM_018189.2 , NP_060659.2
RefSeq Size:	2823 bp
RefSeq ORF:	915 bp
Locus ID:	55211
UniProt ID:	Q7L190
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:



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]).