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Product datasheet for RC222509

DPPA5 (NM_001025290) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DPPA5 (NM_001025290) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DPPA5
Synonyms:	ESG1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC222509 representing NM_001025290
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGAACTCTCCCGGCACGTAGACATATCCCGCCGTGGGTGAAAGTTCCCGAAGACCTGAAAGATCCAG
AGGTGTTCCAGGTCCAGACGCGGCTGCTGAAAGCCATTTTCGGCCCGGACGGATCTCGAATCCCTTACAT
CGAGCAGGTGAGCAAGGCCATGCTCGAGCTGAAGGCTCTGGAGTCTTCAGACCTCACCGAGGTCGTGGTT
TACGGCTCCTATTTGTACAAGCTCCGGACCAAGTGGATGCTCCAGTCCATGGCTGAGTGGCACCGCCAGC
GCCAGGAGCGAGGGATGCTCAAACTTGCCGAAGCCATGAATGCCCTCGAACTAGGCCCTTGGATGAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC222509 representing NM_001025290
Red=Cloning site Green=Tags(s)

MGTLPARRHIPPWVKVPEDLKDPEVFQVQTRLLKAIFGPDGSRIPYIEQVSKAMLELKALESSDLTEVVV
YGSYLYKLRTKWMLQSMAEWHRQRQERGMLKLAEAMNALELGPWMK

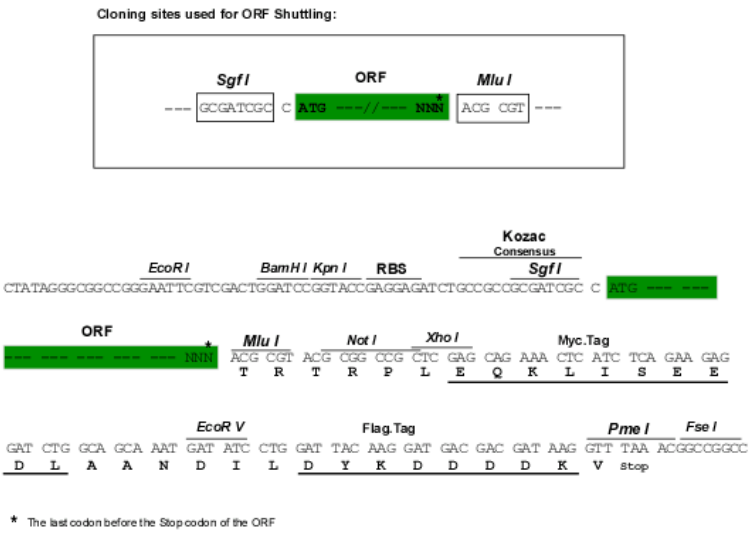
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6117_g07.zip

Restriction Sites: SgfI-MluI

View online »

Cloning Scheme:



ACCN: NM_001025290

ORF Size: 348 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

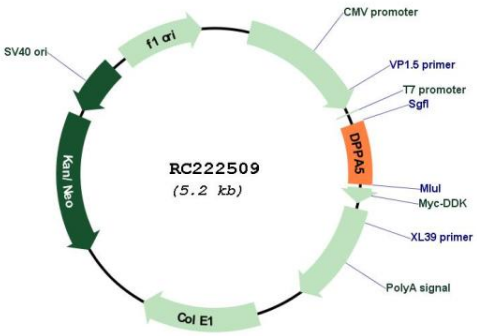
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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.

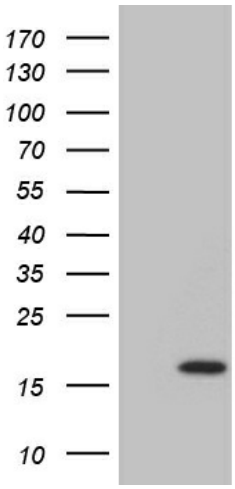
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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_001025290.3
RefSeq Size:	612 bp
RefSeq ORF:	351 bp
Locus ID:	340168
UniProt ID:	A6NC42
Cytogenetics:	6q13
MW:	13.3 kDa
Gene Summary:	This gene encodes a protein that may function in the control of cell pluripotency and early embryogenesis. Expression of this gene is a specific marker for pluripotent stem cells. Pseudogenes of this gene are located on the short arm of chromosome 10 and the long arm of chromosomes 14 and 19. [provided by RefSeq, Dec 2010]

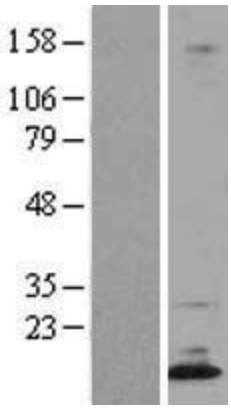
Product images:



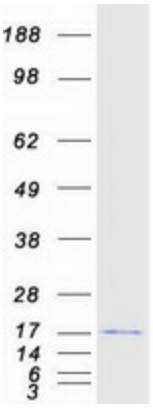
Circular map for RC222509



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY DPPA5 (Cat# RC222509, 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-DPPA5 (Cat# [TA810842])(1:2000). Positive lysates [LY400405] (100ug) and [LC400405] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY400405]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC222509 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified DPPA5 protein (Cat# [TP322509]). The protein was produced from HEK293T cells transfected with DPPA5 cDNA clone (Cat# RC222509) using MegaTran 2.0 (Cat# [TT210002]).