**OriGene Technologies, Inc.**
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

# Product datasheet for RG205999

## DPPA4 (NM_018189) Human Tagged ORF Clone

### Product data:

| | |
|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | DPPA4 (NM_018189) Human Tagged ORF Clone |
| **Tag:** | TurboGFP |
| **Symbol:** | DPPA4 |
| **Synonyms:** | 2410091M23Rik |
| **Mammalian Cell Selection:** | Neomycin |
| **Vector:** | pCMV6-AC-GFP (PS100010) |
| **E. coli Selection:** | Ampicillin (100 ug/mL) |

**ORF Nucleotide Sequence:**

>RG205999 representing NM_018189
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTTGCGAGGCTCCGCTTCTTCTACAAGTATGGAGAAGGCAAAAGGCAAGGAGTGGACCTCCACAGAGA
AGTCGAGGGAAGAGGATCAGCAGGCTTCTAATCAACCAAATTCAATTGCTTTGCCAGGAACATCAGCAAA
GAGAACCAAAGAAAAAATGTCTGTCAAAGGCAGTAAAGTGCTCTGCCCTAAGAAAAAGGCAGAGCACACT
GACAACCCCAGACCTCAGAAGAAGATACCAATCCCTCCATTACCTTCTAAACTGCCACCTGTTAATCTGA
TTCACCGGGACATTCTGCGGGCCTGGTGCCAACAATTGAAGCTGAGCTCCAAAGGCCAGAAATTGGATGC
ATATAAGCGCCTGTGTGCCTTTGCCTACCCAAATCAAAAGGATTTTCCTAGCACAGCAAAAGAGGCCAAA
ATCCGGAAATCATTGCAAAAAAAATTAAAGGTGGAAAAGGGGGAAACGTCCCTGCAAAGTTCTGAGACAC
ATCCTCCTGAAGTGGCTCTTCCTCCTGTGGGGGAGCCGCCTGCCCTGGAAAATTCCACTGCTCTCCTTGA
GGGAGTTAATACAGTTGTGGTGACAACTTCTGCCCCAGAGGCTTTGCTGGCCTCCTGGGCGAGAATTTCA
GCCAGGGCGAGGACACCAGAGGCAGTGGAATCTCCACAAGAGGCCTCTGGTGTCAGGTGGTGTGTGGTCC
ATGGGAAAAGTCTCCCTGCAGACACAGATGGTTGGGTTCACCTGCAGTTTCATGCTGGTCAAGCCTGGGT
TCCAGAAAAGCAAGAAGGGAGAGTGAGTGCACTCTTCTTGCTTCCTGCCTCCAATTTTCCACCCCCGCAC
CTTGAAGACAATATGTTGTGCCCCAAATGTGTTCACAGGAACAAGGTCTTAATAAAAAGCCTCCAATGGG
AA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:**

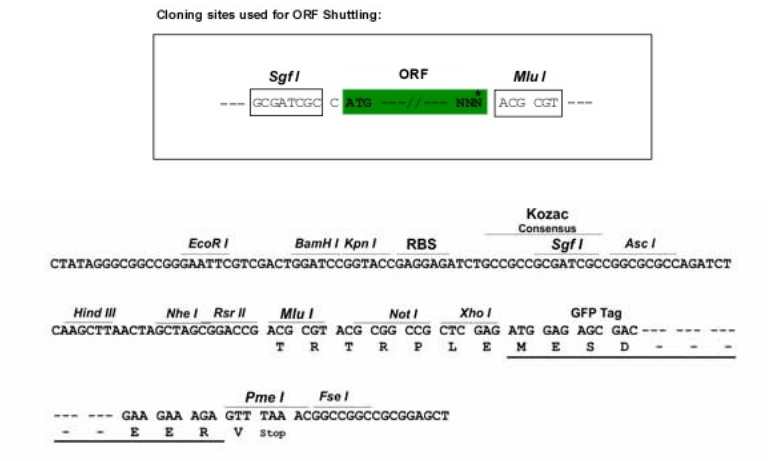
>RG205999 representing NM_018189
Red=Cloning site Green=Tags(s)

MLRGSASSTSMEKAKGKEWTSTEKSREEDQQASNQPNSIALPGTSAKRTKEKMSVKGSKVLCPKKKAEHT
DNPRPQKKIPIPPLPSKLPPVNLIHRDILRAWCQQLKLSSKGQKLDAYKRLCAFAYPNQKDFPSTAKEAK
IRKSLQKKLKVEKGETSLQSSETHPPEVALPPVGEPPALENSTALLEGVNTVVVTTSAPEALLASWARIS
ARARTPEAVESPQEASGVRWCVVHGKSLPADTDGWVHLQFHAGQAWVPEKQEGRVSALFLLPASNFPPPH
LEDNMLCPKCVHRNKVLIKSLQWE

TRTRPLE - GFP Tag - V

**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.

**RefSeq:** NM_018189.2, NP_060659.2

**RefSeq Size:** 2584 bp

**RefSeq ORF:** 915 bp

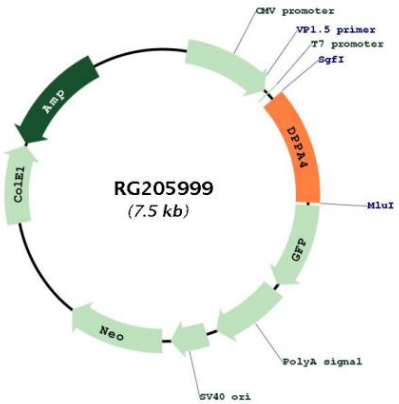
**Locus ID:** 55211

**UniProt ID:** Q7L190

**Cytogenetics:** 3q13.13

**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 RG205999