

Product datasheet for **RG205441**

DPPA2 (NM_138815) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	DPPA2
Synonyms:	CT100; ECAT15-2; PESCRG1
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG205441 representing NM_138815
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGTCAGATGCAAATTTGGATAGCAGCAAGAAGAATTTCTTGGAGGGGAAGTAGATGATGAGGAAAGTG
TGATTTTGACACTGGTGCCAGTTAAAGATGACGCAAAATATGGAACAAATGGAACCAAGCGTTTCTTCAAC
TTCTGATGTCAAAGCTGAGAGCCTAAGAAATACAATCCAGGTCATCTACTTCAAACAAATGAGCAATTT
ACAGCTCCACAAAAGCTAGATGCAAAATACCAGCCCTTCCCTTGCCGACCATTTGCCTCCCATTAATA
AGGTGTGTCTGGGACACTTTGCGGGACTGGTGTCAACAACCTCGGTTTGAGTACTAATGGCAAGAAAATCGA
AGTTTATCTGAGGCTTCATAGGCATGCTTACCCTGAACAACGGCAAGATATGCCTGAAATGTCACAAGAG
ACCAGATTACAGCGATGTTGAGGAAACGCAAGGCAGTGACCAAGAGAGCAAGGCTTCAGAGAAGTTATG
AGATGAATGAGAGAGCAGAAGAGACCAATACAGTTGAAGTGATAACTTCAGCACCGGGAGCCATGTTGGC
ATCATGGGCAAGAATTGCTGCAAGAGCTGTTGAGCCTAAGGCTTTGAATTCATGTTCCATTCTGTTTCT
GTTGAGGCCTTTTGTGCAAGCCTCTGGCGTCAGGTGGTGTGTGGTCCATGGCAGACTTCTCTCGGCAG
ACACAAAGGGTTGGGTACGCCTGCAGTTTCATGCAGGTGAGCCTGGGTGCCTACCACTCACAGGAGGAT
GATTTCTCTCTTCTGTTACCTGCCTGCATTTTCCATCCCCAGGCATAGAAGATAATGTTATGCCCC
GACTGTGCTAAGAGGAATAAGAAGATGATGAAAAGATTAATGACAGTAGAGAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence: >RG205441 representing NM_138815
Red=Cloning site Green=Tags(s)

MSDANLDSSKKNFLEGEVDDEESVILTLVPVKDDANMEQMEPSVSSTSVDKLEKPKKYNPGHLLQTNEQF
TAPQKARCKIPALPLPTILPPINKVCRDTRLRDWCQQLGLSTNGKKIEVYLRHHRHAYPEQRQDMPMSQE
TRLQRCRKRKAVTKRARLQSYEMNERAEETNTVEVITSAPGAMLASWARIAARAVQPKALNSCIPVS
VEAFLMQASGVRWCVVHGRLLSADTKGWVRLQFHAGQAWVPTTHRRMISLFLLPACIFPSPGIEDNMLCP
DCAKRNKKMMKRLMTVEK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



CTATAGGGCGCGCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGATCGCCGGCGCGCAGATCT

EcoRI BamHI KpnI RBS Kozac Consensus SgfI AscI

CAAGCTTAAGCTAGCTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC ---

HindIII NheI RsrII MluI NotI XhoI GFP Tag

T R T R P L E M E S D - - -

--- GAA GAA AGA GTT TAA ACGGCCGCCCGGAGCT

- - E E R V Stop

ACCN: NM_138815

ORF Size: 894 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_138815.4](#)

RefSeq Size: 1395 bp

RefSeq ORF: 897 bp

Locus ID: 151871

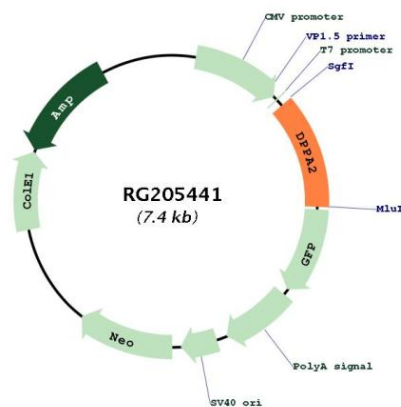
UniProt ID: [Q7Z7J5](#)

Cytogenetics: 3q13.13

Protein Families: Embryonic stem cells, Induced pluripotent stem cells, Stem cell - Pluripotency

Gene Summary: Binds to target gene promoters, including NKX2-5 and SYCE1, but not GATA4, and may be involved in the maintenance of the active epigenetic status of these genes.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG205441