

Product datasheet for **RG201334**

PP2A-alpha (PPP2CA) (NM_002715) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PP2A-alpha (PPP2CA) (NM_002715) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PP2A-alpha
Synonyms:	NEDLBA; PP2Ac; PP2CA; PP2Calpha; RP-C
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG201334 representing NM_002715 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACGAGAAGGTGTTACCAAGGAGCTGGACCAGTGGATCGAGCAGCTGAACGAGTGCAAGCAGCTGT
CCGAGTCCAGGTCAAGAGCCTCTGCGAGAAGGCTAAAGAAATCCTGACAAAAGAATCCAACGTGCAAGA
GGTTCGATGTCCAGTTACTGTCTGTGGAGATGTGCATGGGCAATTCATGATCTCATGGAAGTGTTAGA
ATTGGTGGCAAAACACCAGATACAAATTACTTGTATGGGAGATTATGTTGACAGAGGATATTATTCAG
TTGAAACAGTTACTGCTTGTAGCTCTTAAGGTCGTTACCGTGAACGCATCACCATTCTCGAGGGAA
TCATGAGAGCAGACAGATCACACAAGTTTATGGTTTCTATGATGAATGTTAAGAAAATATGGAAATGCA
AATGTTTGGAAATATTTACAGATCTTTTTGACTATCTTCTCTCACTGCCTTGGTGGATGGGCAGATCT
TCTGTCTACATGGTGGTCTCTCGCCATCTATAGATACACTGGATCATATCAGAGCACTTGATCGCCTACA
AGAAGTCCCCATGAGGGTCCAATGTGTGACTTGTGTGGTCCAGATGACCGTGGTGGTGGGGT
ATATCTCTCGAGGAGCTGGTTACACCTTTGGGCAAGATTTCTGAGACATTTAATCATGCCAATGGCC
TCACGTTGGTGTCTAGAGCTCACCAGCTAGTGTGGAGGGATATAACTGGTGCCATGACCGGAATGTAGT
AACGATTTTCAGTGCTCCAACTATTGTTATCGTTGTGGTAACCAAGCTGCAATCATGGAAGTGGACGAT
ACTCTAAAATACTTTTTCAGTTTGACCCAGCACCTCGTAGAGGCGAGCCACATGTTACTCGTCGTA
CCCCAGACTACTTCTCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG201334 representing NM_002715
Red=Cloning site Green=Tags(s)

MDEKVFTEKLDQWIEQLNECKQLSESQVKSLCEKAKEILTKESNVQEVRCPVTVCGDVHGGQFHDLMELEFR
 IGKSPDNTYLFMGDYVDRGYYSVETVLLVALKVRYRERITILRGNHESRQITQVYGFYDECLRKYGNA
 NVWKYFTDLFDYLPLTALVDGQIFCLHGGGLSPSIDTLDIRALDRLQVEPHEGPMCDLLWSDPDRGGWG
 ISPRGAGYTFGGQDISETFNHANGLLVSRHQQLVMEGYNWCHDRNVVTFIFAPNYCYRCGNQAAIMELDD
 TLKYSFLQFDPAPRRRGEFHVTRTRTPDYFL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_002715

ORF Size: 927 bp

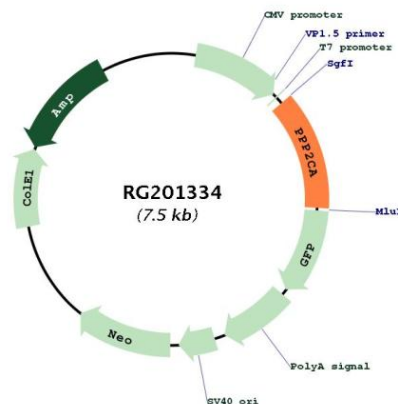
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	<ol style="list-style-type: none"> 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_002715.4
RefSeq Size:	2643 bp
RefSeq ORF:	930 bp
Locus ID:	5515
UniProt ID:	P67775
Cytogenetics:	5q31.1
Domains:	Metallophos, PP2Ac
Protein Families:	Druggable Genome, Phosphatase, Transcription Factors
Protein Pathways:	Long-term depression, Oocyte meiosis, TGF-beta signaling pathway, Tight junction, Wnt signaling pathway
Gene Summary:	This gene encodes the phosphatase 2A catalytic subunit. Protein phosphatase 2A is one of the four major Ser/Thr phosphatases, and it is implicated in the negative control of cell growth and division. It consists of a common heteromeric core enzyme, which is composed of a catalytic subunit and a constant regulatory subunit, that associates with a variety of regulatory subunits. This gene encodes an alpha isoform of the catalytic subunit. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG201334