

Product datasheet for **RC211899**

PPEF2 (NM_006239) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PPEF2 (NM_006239) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PPEF2
Synonyms:	PPP7CB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>RC211899 representing NM_006239
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGGAAGCGGCACCTCCACCCAACATCATTTTGTCTTCCAGAATGCAGAGAGAGCCTTCAAGGCAGCAG
CCCTGATCCAGAGATGGTACCGGCGCTACGTGGCCCGCCTGGAGATGAGGCGGCGTTGCACCTGGAGCAT
CTTCCAGTCTATAGAATATGCTGGGCAGCAAGACCAAGTCAAGCTCCATGACTTCTTCCAGCTATCTCATG
GATCACTTCATCCCCAGCAGCCACAACGACAGGGACTTCTGACCCGCATATTCAGTGGAGCAGATTTCG
CCCAGGACTCCGAGATGAAGAAATGCAGTGACTATGAATCCATAGAGGTACCCGACAGTTACACGGGGCC
ACGCTCTCCTTCCACTCCTGCCTGACCATGCAACTGCCCTGGTAGAAGCATTGAGACTGAAACAACAG
CTCCATGCTCGTACGTCTTGAACCTTTTGTATGAAACCAAGAAACATCTGGTACAGCTGCCAAACATCA
ACCGGGTCTCAACCTGTTACAGTGAGGAGATCACAGTGTGTGGAGACTTACATGGCCAATTGGATGACTT
AATCTTTATATTTATAAGAATGGCCTCCCGTCGCCAGAACGGTCATATGTGTTCAACGGTGACTTTGTG
GATCGAGGCAAGGATTCAGTAGAGATCCTGATGATTCTTTTTGCCTTCATGCTGGTTACCCCAAAGAGT
TCCATCTTAACAGAGGAAACCATGAGGACCATATGGTGAACCTACGATATGGCTTACCAAGGAAGTGAT
GAATAATAACAAGGTACACGGGAAGGAAATACTAAGAACCCTGCAAGATGTTTTCTGTTGGCTTCCACTG
GCCACTCTGATAGATGAGAAAGTTCTAATCTTTCATGGTGGGGTGTGAGACATAACTGATCTGGAGCTTT
TGGACAAAATAGAGAGGAGCAAGATAGTTTCCACCATGAGGTGCAAAACGAGACAGAAGAGTGAGAAGCA
GATGGAGGAGAAGAGAAGAGCCAACCAAGAGCTCTGCACAGGGACCCATCCCATGGTTTCTCCCCGAA
AGCCGCTCTCTCCCTCTTCGCCCTTCGGCTTGGCTCTACAAGGCCAGAAAACAGCAGGTCCCTCCA
GCATCCCCTGCAGCGGTTCCCTGGACGGGCGGGAGCTCTCCCGCAGGTGCGGAGCTCCGTGGAACCTGGA
GCTAGAGCGGTGCGGCGCAGCAAGCAGGCTCCTGGTGACCGGAGAGAAAGAGGAGCCCTCCCGCTCAGCC
TCAGAAGCAGACTCTGAAGCCGGAGAGCTGCGGAAGCCACTCAGGAGGAGTGGAGGCAGGTTGTAGATA
TCCTGTGGAGTGATCCCATGGCTCAAGAGGGCTGCAAGGCCAACACTATTCGAGGAGGAGGCTGTTATTT
TGGGCCTGATGTGACACAACAGTTGCTACAAAAATACAACATGCAATTCCTGATCCGTTACATGAATGC
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AGCTAACAAAGGTGACCCACACACTCACCATGAGGCAAAGGATTAGCAGAGTGGAGGAGTCCGCTCTGAGA
GCTCTGAGGGAGAAGCTGTTTGGCTCATTCTCAGATCTTCTCAGTGAATTAAGAAGCATGATGCAGATA
AAGTCGGTTAATCACCTTGAGTGACTGGGCAGCAGCGGTGGAGTCTGTGTTGCACCTAGGACTGCCATG
GCGGATGCTGAGGCCACAGCTGGTGAACAGCTCAGCAGACAACATGCTGGAGTACAAGTCTTGGCTGAAG
AACTTGGCCAAGGAACAACCTGAGTCGCGAGAACATACAATCAAGTTTGTGGAAACATTGTATCGAAACC
GATCCAACCTAGAGACATTTTTAGGATCATAGACAGTATTCATTCAGGGTTTCATCTCACTGGACGAGTT
CAGGCAGACCTGGAAGCTGTTGAGCTCTCACATGAATATCGACATTACAGATGACTGCATCTGTGACCTT
GCTCGGAGCATTGATTTCAACAAAGATGGCCACATTGATATCAATGAGTTCCTGGAGGCCTTCCGCCTTG
TGGAGAAATCTGCCAGAGGGCGATGCCTCAGAATGCCACAAGCTACAATGCTAAAGACAGTGGCTG
CAGCAGTCCAGGTGCACAC

ACGCGTACGCGGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC211899 representing NM_006239
Red=Cloning site Green=Tags(s)

MGSSTSTQHFFAFQNAERAFKAAALIQRWYRRYVARLEMRRRCTWSIFQSI EYAGQQDQVKLHDFFSYLM
 DHFIPSSHNDRDFLTRIFTEDRFAQDSEMKKCSYDYESIEVPSYTGPRLSFPLLPDHATALVEAFRLKQQ
 LHARYVLNLLYETKKHLVQLPNINRVSTCYSEEITVCGDLHGQLDDLIFIFYKNGLPSPERSYVFNDFV
 DRGKDSVEILMILFAFMLVYPKEFHLNRGNHEDHMVNLRYGFTKEVMNKYKVHGKEILRTLQDVF CWLPL
 ATLIDEKVLILHGGVSDITDLELLDKIERSKIIVSTMCRKTRQKSEKQMEKRRANQKSSAQGPWPFLPE
 SRSLPSSPLRLGSYKAQKTSRSSSIPCSGSLDGREL SRQVRSSVELELERCRQQAGLLVTGEKEEPSRSA
 SEADSEAGELRKPTQEEWRQVVDILWSDPMAQEGCKANTIRGGGCYFGPDVTQQLLQKYNMQFLIRSHC
 KPEGYEFCHNRKVLTFASNYEYVGSNRGAYVKLGPALTPHIVQYQANKVHTL TMRQRISRVEESALR
 ALREKLF AHSSDLLSEFKKHADKVG LITLSDWAAAVESVLHLGLPWRMLRPQLVNSSADNMLEYKSWLK
 NLAKEQLSRENIQSSLLETLYRNRSNLETIFRIIDSDHSGFISLDEFRQTWKLFS SHMNIDITDDCICDL
 ARSIDFNKDGHDINEFLEAFRLVEKSCPEGDASECPQATNAKDSGCSSPGAH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8026_f05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_006239

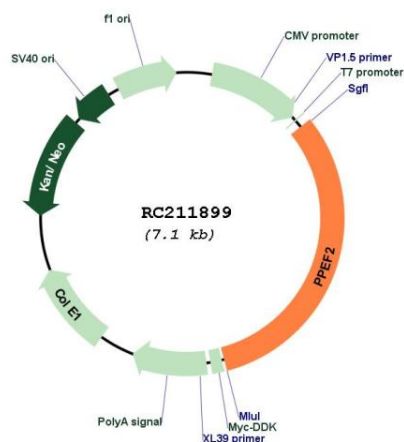
ORF Size: 2259 bp

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](#)

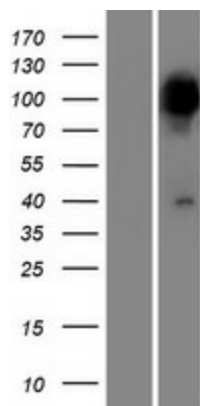
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_006239.3
RefSeq Size:	3430 bp
RefSeq ORF:	2262 bp
Locus ID:	5470
UniProt ID:	O14830
Cytogenetics:	4q21.1
Domains:	IQ, EFh, Metallophos, PP2Ac
Protein Families:	Druggable Genome
MW:	86.3 kDa
Gene Summary:	This gene encodes a member of the serine/threonine protein phosphatase with EF-hand motif family. The protein contains a protein phosphatase catalytic domain, and at least two EF-hand calcium-binding motifs in its C terminus. Although its substrate(s) is unknown, the encoded protein, which is expressed specifically in photoreceptors and the pineal, has been suggested to play a role in the visual system. This gene shares high sequence similarity with the Drosophila retinal degeneration C (rdgC) gene. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC211899



Western blot validation of overexpression lysate (Cat# [LY416783]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC211899 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).