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Product datasheet for RG211899

PPEF2 (NM_006239) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	PPEF2
Synonyms:	PPP7CB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

ORF Nucleotide Sequence:

>RG211899 representing NM_006239
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGAAGCGGCACCTCCACCCAACATCATTTTGCTTTCCAGAATGCAGAGAGAGCCTTCAAGGCAGCAG
CCCTGATCCAGAGATGGTACCGGCGCTACGTGGCCCGCCTGGAGATGAGGCGGCGTTGCACCTGGAGCAT
CTTCCAGTCTATAGAATATGCTGGGCAGCAAGACCAAGTCAAGCTCCATGACTTCTTCAGCTATCTCATG
GATCACTTCATCCCCAGCAGCCACAACGACAGGGACTTCCTGACCCGCATATTCACTGAGGACAGATTCG
CCCAGGACTCCGAGATGAAGAAATGCAGTGACTATGAATCCATAGAGGTACCCGACAGTTACACGGGGCC
ACGCCTCTCCTTCCCACTCCTGCCTGACCATGCAACTGCCCTGGTAGAAGCATTCAGACTGAAACAACAG
CTCCATGCTCGCTACGTCTTGAACCTTTTGTATGAAACCAAGAAACATCTGGTACAGCTGCCAAACATCA
ACCGGGTCTCAACCTGTTACAGTGAGGAGATCACAGTGTGTGGAGACTTACATGGCCAATTGGATGACTT
AATCTTTATATTTTATAAGAATGGCCTCCCGTCGCCAGAACGGTCATATGTGTTCAACGGTGACTTTGTG
GATCGAGGCAAGGATTCAGTAGAGATCCTGATGATTCTTTTTGCCTTCATGCTGGTTTACCCCAAAGAGT
TCCATCTTAACAGAGGAAACCATGAGGACCATATGGTGAACTTACGATATGGCTTCACCAAGGAAGTGAT
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GCCACTCTGATAGATGAGAAAGTTCTAATTCTTCATGGTGGGGTGTCAGACATAACTGATCTGGAGCTTT
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AGCCGCTCTCTTCCCTCTTCGCCCCTTCGGCTTGGCTCCTACAAGGCCCAGAAAACCAGCAGGTCCTCCA
GCATCCCCTGCAGCGGTTCCCTGGACGGGCGGGAGCTCTCCCGGCAGGTGCGGAGCTCCGTGGAACTGGA
GCTAGAGCGGTGCCGGCAGCAAGCAGGCCTCCTGGTGACCGGAGAGAAAGAGGAGCCCTCCCGCTCAGCC
TCAGAAGCAGACTCTGAAGCCGGAGAGCTGCGGAAGCCCACTCAGGAGGAGTGGAGGCAGGTTGTAGATA
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AACTTGGCCAAGGAACAACTGAGTCGCGAGAACATACAATCAAGTTTGCTGGAAACATTGTATCGAAACC
GATCCAACCTAGAGACCATTTTTAGGATCATAGACAGTGATCATTCAGGGTTCATCTCACTGGACGAGTT
CAGGCAGACCTGGAAGCTGTTCAGCTCTCACATGAATATCGACATTACAGATGACTGCATCTGTGACCTT
GCTCGGAGCATTGATTTCAACAAAGATGGCCACATTGATATCAATGAGTTCCTGGAGGCCTTCCGCCTTG
TGGAGAAATCCTGCCCAGAGGGCGATGCCTCAGAATGCCCACAAGCTACAAATGCTAAAGACAGTGGCTG
CAGCAGTCCAGGTGCACAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

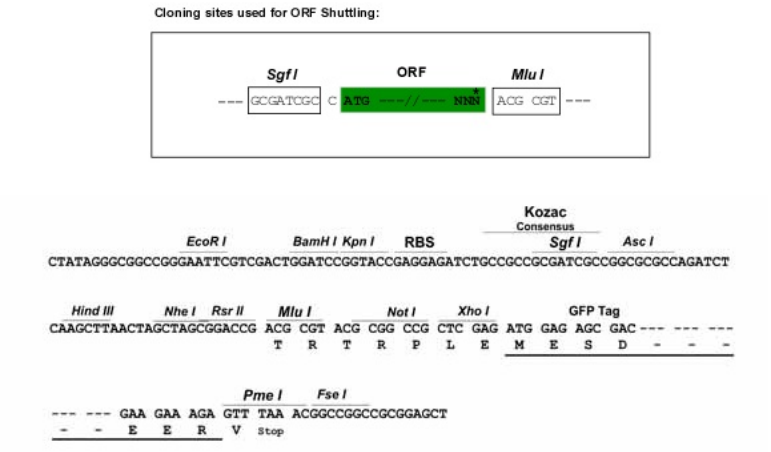
>RG211899 representing NM_006239
Red=Cloning site Green=Tags(s)

MGSGTSTQHHFAFQNAERAFKAAALIQRWYRRYVARLEMRRRCTWSIFQSIEYAGQQDQVKLHDFFSYLM
DHFIPSSHNDRDFLTRIFTEDRFAQDSEMKKCSDYESIEVPDSYTGPRLSFPLLPDHATALVEAFRLKQQ
LHARYVLNLLYETKKHLVQLPNINRVSTCYSEEITVCGDLHGQLDDLIFIFYKNGLPSPERSYVFNGDFV
DRGKDSVEILMILFAFMLVYPKEFHLNRGNHEDHMVNLRYGFTKEVMNKYKVHGKEILRTLQDVFCWLPL
ATLIDEKVLILHGGVSDITDLELLDKIERSKIVSTMRCKTRQKSEKQMEEKRRANQKSSAQGPIPWFLPE
SRSLPSSPLRLGSYKAQKTSRSSSIPCSGSLDGRELSRQVRSSVELELERCRQQAGLLVTGEKEEPSRSA
SEADSEAGELRKPTQEEWRQVVDILWSDPMAQEGCKANTIRGGGCYFGPDVTQQLLQKYNMQFLIRSHEC
KPEGYEFCHNRKVLTIFSASNYYEVGSNRGAYVKLGPALTPHIVQYQANKVTHTLTMRQRISRVEESALR
ALREKLFAHSSDLLSEFKKHDADKVGLITLSDWAAAVESVLHLGLPWRMLRPQLVNSSADNMLEYKSWLK
NLAKEQLSRENIQSSLLETLYRNRSNLETIFRIIDSDHSGFISLDEFRQTWKLFSSHMNIDITDDCICDL
ARSIDFNKDGHIDINEFLEAFRLVEKSCPEGDASECPQATNAKDSGCSSPGAH

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_006239

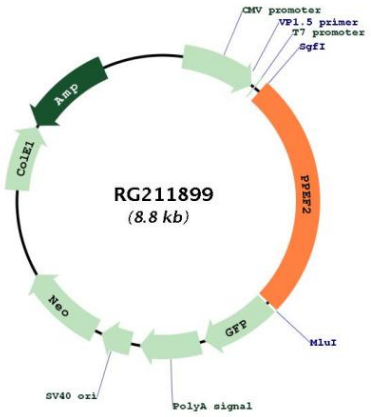
ORF Size: 2259 bp

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:	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_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
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 RG211899