

Product datasheet for **RG206034**

PPEF1 (NM_006240) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PPEF1 (NM_006240) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PPEF1
Synonyms:	PP7; PPEF; PPP7C; PPP7CA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG206034 representing NM_006240
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGATGCAGCAGTTCTTCAACGAAAACCAGGAGATCTGACACATCACTGAGAGCTGCGTTGATCATCC
 AGAACTGGTACCGAGGTTACAAAGCTCGACTGAAGGCCAGACAACACTATGCCCTACCATCTTCCAGTC
 CATCGAATATGCTGATGAACAAGGCCAAATGCAGTTATCCACCTTCTTTTCTTTCATGTTGGAAAACAC
 ACACATATACATAAGGAAGAGCTAGAATTAAGAAATCAGTCTCTTGAAGCGAACAGGACATGAGGGATA
 GATGGGATTATGTGGACTCGATAGATGTCCAGACTCCTATAATGGTCTCGGCTACAATTTCTCTCAC
 TTGTACGGATATTGATTTACTTCTTGGGCCTCAAGGAACAACAGATACTTCATGCCATTATGTCTTA
 GAGGTGCTATTTGAAACCAAGAAAGTCTGAAGCAAATGCCGAATTTCACTCACATACAACTTCTCCCT
 CCAAAGAGGTAACAATCTGTGGTATTTGCATGGGAACTGGATGATCTTTTTTGTCTTCTACAAGAA
 TGGTCTCCCTCAGAGAGGAACCGTATGTTTTAATGGTGACTTGTAGATCGAGGAAAGAATTCATA
 GAGATCCTAATGATCCTGTGTGTGAGTTTTCTGTCTACCCCAATGACCTGCACCTGAACAGAGGGAACC
 ACGAAGATTTTATGATGAATCTGAGGTATGGCTTACGAAAAGAAATTTGCATAAATAAGCTACATGG
 AAAAGAATCTTACAAATCTTGAAGAATTCTATGCCTGGCTCCCAATCGGTACAATCGTTGACAATGAA
 ATCCTGGTCATCCATGGTGGGATATCAGAGACCACAGACTTGAATTTACTCCACCGTGTAGAGAGGAACA
 AGATGAAATCTGTGCTGATACCACCAACGGAAACAAACAGAGACCATGACACTGACTCGAAGCACAATAA
 AGTAGGTGTGACTTTTAAATGCACATGGAAGAATCAAAACAAATGGATCTCCTACTGAACACTAACAGAG
 CATGAATGGGAACAGATTATTGATTTCTGTGGAGTATCCAGAGGCCAAAAATGGCTGTTTTCCAATA
 CGTGCCGAGGAGGGGGCTGCTATTTTGGACCAGATGTTACTTCCAAGATCTTAATAAATACCAGTTGAA
 GATGCTCATCAGGTCTCATGAATGTAAGCCCGAAGGGTATGAAATCTGTGATGATGGGAAGGTGGTGACT
 ATATTTCTGCTTCTAATTATTATGAAGAAGGCAGCAATCGAGGAGCTTACATCAAACTATGTTCTGGTA
 CAACTCTCGATTTTCCAGTACCAAGTAACTAAAGCAACGTGCTTTCAGCCTCTTCGCCAAAGAGTGGA
 TACTATGGAAAACAGCGCCATCAAGATATTAAGAGAGAGAGTATTTACGAAAAAGTGACCTTACTCGT
 GCTTTCCAACCTCAAGACCACAGAAAATCAGGAAAATTTCTGTGAGCCAGTGGGCTTTTTGCATGGAGA
 ACATTTTGGGGCTGAACCTACCATGGAGATCCCTCAGTTCGAATCTGGTAAACATAGACCAAAATGGAAA
 CGTTGAATACATGTCCAGCTTCCAGAATATCCGCATTGAAAAACCTGTACAAGAGGCTCATTCTACTCTA
 GTTGAAACTCTGTACAGATACAGATCTGACCTGGAAATCATATTTAATGCCATTGACACTGATCACTCAG
 GCCTGATCTCCGTGGAAGAATTTCTGTGCCATGTGGAACTTTTTAGTTCTCACTACAATGTTACATTGA
 TGATTTCCCAAGTCAATAAGCTTGCCAACATAATGGACTTGAACAAAGATGGAAGCATTGACTTTAATGAG
 TTTTAAAGGCTTCTATGTAGTGCATAGATATGAAGACTTGTGAAACCTGATGTCACCAACCTTGGC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG206034 representing NM_006240
 Red=Cloning site Green=Tags(s)

MGCSSSTKTRRSDSLRAALI IQNWRGYKARLKRQHYALTFQSI EYADEQQMQLSTFFSFMLENY
 THIHKEELELRNQSL ESEQMDRDRWDYVDSIDVPDSYNGPRLQFPLTCTDIDLLLEAFKEQQILHAHYVL
 EVLFETKKVLKQMPNFTHIQ TSPSKEVTICGDLHGKLDLFLIFYKNGLPSE RNPVVFNGDFVDRGKNSI
 EILMILCVSFLVYPNDLHLNRGNHEDFMMNLRYGFTKEILHXYKLHGKRI LQILEEFYAWLP IGTIVDNE
 ILVIHGGISETDLNLLHRVERNKMKSVLIPPTETNRDHD TDSKHNVGVTFNAHGRIKNGSPTEHLTE
 HEWEQIIDILWSDPRGKNGCFPNTCRGGCYFGPDVTSKILNKYQLKMLIR SHECKPEGYEICHDGKVVT
 IFSASNYEEGSRGAYIKLCSGTTPRFFQYQVTKATCFQPLRQRVDTMENS AIKILRERVISRKS DLTR
 AFQLQDHRKSGKLSVSQWAF CMENILGLNLPWRSLSSNLVNI DQNGNVEYMSSFQNI RIEKPVQEAHSTL
 VETLYRYSLEIIFNAIDTDHSGLISVEEFAMWKLFS SHYVNHIDDSQV NKLANIMDLNKDGSIDFNE
 FLKAFYVVHRYEDLMKPDVTNLG

TRTRPLE – GFP Tag – V

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



ACCN: NM_006240

ORF Size: 1959 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_006240.4](#)

RefSeq Size: 2873 bp

RefSeq ORF: 1962 bp

Locus ID: 5475

UniProt ID: [O14829](#)

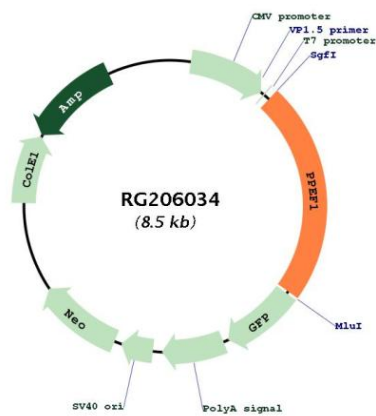
Cytogenetics: Xp22.13

Domains: IQ, EFh, Metallophos, PP2Ac

Protein Families: Druggable Genome, Phosphatase

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 has been suggested to play a role in specific sensory neuron function and/or development. This gene shares high sequence similarity with the Drosophila retinal degeneration C (rdgC) gene. Several alternatively spliced transcript variants, each encoding a distinct isoform, have been described. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG206034