

Product datasheet for **RG223242**

PPEF1 (NM_152226) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PPEF1 (NM_152226) 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:

>RG223242 representing NM_152226
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGATGCAGCAGTTCTTCAACGAAAACCAGGAGATCTGACACATCACTGAGAGCTGCGTTGATCATCC
 AGAACTGGTACCGAGGTTACAAAGCTCGACTGAAGGCCAGACAACACTATGCCCTACCATCTTCCAGTC
 CATCGAATATGCTGATGAACAAGGCCAAATGCAGTTATCCACCTTCTTTTCTTTCATGTTGAAAACTAC
 ACACATATACATAAGGAAGAGCTAGAATTAAGAAATCAGTCTCTTGAAGCGAACAGGACATGAGGGATA
 GATGGGATTATGTGGACTCGATAGATGTCCAGACTCCTATAATGGTCTCGGCTACAATTTCTCTCAC
 TTGTACGGATATTGATTTACTTCTTGGGCCTTCAAGGAACAACAGATACTTCATGCCATTATGTCTTA
 GAGGTGCTATTTGAAACCAAGAAAGTCTGAAGCAAATGCCGAATTTCACTCACATACAAATTTCTCCCT
 CCAAAGAGGTAACAATCTGTGGTATTTGCATGGGAACTGGATGATCTTTTTTGGATCTTCTACAAGAA
 TGGTCTCCCTCAGAGAGGAACCGTATGTTTTAATGGTGACTTTGTAGATCGAGGAAAGAATTCATA
 GAGATCCTAATGATCCTGTGTGTGAGTTTTCTGTCTACCCCAATGACCTGCACTTGAACAGAGGGAACC
 ACGAAGATTTTATGATGAATCTGAGGTATGGCTTACGAAAAGAAATTTGCATAAATAAGCTACATGG
 AAAAGAATCTTACAAATCTTGAAGAATTCTATGCCTGGCTCCCAATCGGTACAATCGTTGACAATGAA
 ATCCTGGTCATCCATGGTGGGATATCAGAGACCACAGACTTGAATTTACTCCACCGTGTAGAGAGGAACA
 AGATGAAATCTGTGCTGATACCACCAACGGAAACAAACAGAGACCATGACACTGACTCGAAGCACAATAA
 AGTAGGTGTGACTTTTAAATGCACATGGAAGAATCAAAACAATGGATCTCCTACTGAACACTAACAGAG
 CATGAATGGGAACAGGTGGTACTATATTTCTGCTTCAATTTATGAAGAAGGCAGCAATCGAGGAG
 CTTACATCAAATATGTTCTGGTACAACCTCGATTTTTCCAGTACCAAGTAACATAAGCAACGTGCTT
 TCAGCCTCTTCGCCAAAGAGTGGATACTATGAAAACAGCGCCATCAAGATATTAAGAGAGAGAGTGATT
 TCACGAAAAAGTGACCTTACTCGTCTTCCAACCTCAAGACCACAGAAAATCAGGAAAACCTTCTGTGA
 GCCAGTGGGCTTTTTGCATGGAGAACATTTGGGGCTGAACTTACCATGGAGATCCCTCAGTTTCCGAATCT
 GGTAAACATAGACCAAAATGAAACGTTGAATACATGTCCAGCTTCCAGAATATCCGCATTGAAAAACCT
 GTACAAGAGGCTCATTCTACTCTAGTTGAAACTCTGTACAGATACAGATCTGACCTGAAATCATATTTA
 ATGCCATTGACACTGATCACTCAGGCTGATCTCCGTGGAAGAATTTCTGCCATGTGGAACTTTTTAG
 TTCTCACTACAATGTTACATTGATGATCCCAAGTCAATAAGCTTGCCAACATAATGGACTTGAACAAA
 GATGGAAGCATTGACTTTAATGAGTTTTAAAGGCTTTCTATGTAGTGCATAGATATGAAGACTTGATGA
 AACCTGATGTCACCAACCTTGGC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG223242 representing NM_152226
 Red=Cloning site Green=Tags(s)

MGSSSSTKTRRSDSLRAALIIQNWYRGYKARLKARQHYALTIQSIIEYADEQGQMQQLSTFFSFMLENY
 THIHKEELELRNQSLSEQDMRDRWDYVDSIDVPDSYNGPRLQFPLTCTDIDLLEAFKEQQILHAHYVL
 EVLFETKKVLKQMPNFTHIQSPSKEVTICGDLHGKLDLFLIFYKNGLPSEPNPYVFNDFVDRGKNSI
 EILMILCVSFLVYPNDLHLNRGNHEDFMMNLRYGFTKEILHXYKLHGKRIQILEEFYAWLPIGTIVDNE
 ILVIHGGISETDLNLLHRVERNKMKSVLIPPETNRDHDTSKHNKVGVTFNAHGRIKNGSPTEHLTE
 HEWEQVVTIFSASNYEEGSRNGAYIKLCSGTTPRFFQYQVTKATCFQPLRQRVDTMENSIAIKILRERVI
 SRKSDLTRAFQLQDHRKSGKLSVSQWAFCMENILGLNLPWRSLSSNLVNIQNGNVEYMSFQNIIRIEKP
 VQEAHSTLVETLYRYSLEIIFNAIDTDHSGLISVEEFAMWKLFSSHYNVHIDDSQVNKLANIMDLNK
 DGSIDFNEFLKAFYVYVHRVEDLMKPDVTNLG

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

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_152226.1 , NP_689412.1
RefSeq Size:	2687 bp
RefSeq ORF:	1776 bp
Locus ID:	5475
UniProt ID:	O14829
Cytogenetics:	Xp22.13
Domains:	IQ, EFh, Metallophos
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]