

## Product datasheet for **RR215546**

### **Ppef1 (NM\_001034935) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Ppef1 (NM_001034935) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ppef1
Synonyms:	MGC125115
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide  
Sequence:

>RR215546 representing NM\_001034935  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGCTGTGGCAGTTCTTCAAAAAAGGCAAGAAATCTGAGAAAGTGGTGAGAGCTGCATTAATCATCC  
 AAAATTGGTACCGACGGTACAGAGCTCGACTGAGCGCCAGACAACATTATGCCCTCGCCATCTTCCAGTC  
 TATCGAATATGCTGACGAGCAAGGCCAGATGCAGCTATCCAGCTTCTTTTCTTTCATGTTGGAAAACTAT  
 ACAAACACACACAAGGAAGATTCAGCATTAGTAAGTCGACTTTTTGAAAACACCAGGCTCGAAAGCAAGG  
 ACAGAGAGGAATACGTGGGATTGATAGATGTGCCTGACTCCTATGACGGTCTCGCTGCAGTTTCTCT  
 CACGTTTACTGACATCAATTTACTTCTTCAGGCCTTCAAGCAACAGCAGACACTTCATGCTCACTATGTC  
 TTAGAGGTGCTATTTGAAGCCAGGAAAACTCTGAAGCAGATGCCGAATTCCTCGCATAACAACCTTTC  
 CCGCCAAAGAAAACAATCTGTGGTATTGTCATGGGAACTGGATGATCTTATGTTAATTTTCTATAA  
 GAATGGCTCGCTTCAGAGAAGAATCCATATGTGTTAATGGTATTTGTAGATCGAGGAAACAATTCC  
 ATGGAGATCCTAATGATCCTGCTTGTAGTTTTCTGTCTACCCACTGACCTGCACCTCAATAGAGGGA  
 ACCATGAAGACTTTATGATGAACCTGAGGTATGGCTTCACAAAAGAAATCTTACAGAAATACAAGCTACA  
 TGGGAAAAAATCTTACAAGTCTTGAAGAAGCTATACCTGGCTCCCAATTGGTACAATTATTGACAAT  
 GAAATCCTGGTCATACATGGTGGGATATCAGAATCCACGGACTTGAATATACTCCAGCAACTACAGAGAA  
 ATAAAAATGAAGTCTGTGTTAATGCCACCAATGTCAACAAATCAGGAATGTAACATAAAGAAAAATAAAGC  
 AGGGCCGAGCGAACAGTCTGCTTCTGAACAGTTGACAAAGCTGGAATGGGAACAGATTATTGACCTTCTG  
 TGGAGTGACCCAGAGGCAAAAAAGGCTGTTATCCAAACACAAGCCGAGGAGGCGGCTGCTATTTTGGAC  
 CAGATGTTACCTCTAAGGTTCTTAATAAAAACCAGTTGAAGATGGTCATTCGGTCTCATGAGTGTAAACC  
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 GGCAGCAACCGAGGAGCTTACATCAGACTAAGTTATGGTACATCTCCACAATTTTCCAGTACCAAGTGA  
 CTAGTACATCATGCCTGAACCTCTTTACCAAAGGGTGAATGCTATGGAATTCAGTGCCTTCAGGATACT  
 AAAGGAAAGAATGATTGCAAGAAAACTGACCTTATCAATGCTTTTGGAGCTCCGAGATCACAGTAGGACA  
 GGAAAGATTTTATTGGCCAGTGGGCTTTTCTATGGAGAGCATTTTGGGGCTGAACTTACCGTGGAGAT  
 CTCTGAGTTTCGCATCTGGTAAGCACTGACTCCAGCGGAAGCGTCGACTACATGTCCAGCTTTGATGACAT  
 CCACATTGAGAAGCCGATGAAAGATATGAAGTCTGATCTCATTGAACTATGTACAGATACCGATCTGAC  
 CTGAAAAATCATATTTAATATCATCGACACCGATCAGTCAGGTCTGATCTCCATGGATGAATTCGGACCA  
 TGTGAAAATTTTCAATGCTCATTACAAAGTTCATATTGATGATCCCAAATTGATGAGCTTGCCAGCAC  
 AATGGACTCCAACAAAGATGGCAACATAGACTTTAACGAGTTTTTAAGGGCTTTCTATGTAGTCCATAAA  
 TACGAGACGCCAGAGAGCCCTTTGAACAAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR215546 representing NM\_001034935  
Red=Cloning site Green=Tags(s)

MGCSSSSKGGKKSEKVVRAALIIQNWYRRYRRLSARQHYALAFQSI EYADEQQGMQLSSFFSFMLENY  
 TNTHKEDSALVSRLFENTRLESKDREEVVGLIDVPDSYDGPRLQFPLTFDINLLQAFKQQTLHAHYV  
 LEVLF EARKILKQMPNFTRIQT FPAKEITICGDLHGKLDLMLIFYKNGLPSEKNPYVFNDFVDRGNNS  
 MEILMILLVSFLVYPTDLHLNRGNHEDFMMNLRYGFTKEILQKYKLHGKKILQVLEELYTWLPIGTIIDN  
 EILVIHGGISESTDLNILQQLQRNKMKSVMPPMSTNQECNIKKNKAGPSEQSASEQLTKLEWEQIIDLL  
 WSDPRGKKGCPNTRSGGGCYFGPDVTSKVLNKNQLKMYIRSHECKPDGYEICHDKVITVFSASNYEE  
 GSNRGAYIRLSYGTSPQFFQYQVTSTSLNPLYQRVNAMEFSAFRILKERMIARKTDLINAFELRDHSRT  
 GKISLAQWAFSMESILGLNLPWRSLSSHVSTDSGSDVYMSSFDDIHIEKPMKDMKSDLIETMYRYRSD  
 LKIIIFNIIDTDQSGLISMDEFRTMWKLFNAHYKVHIDDSQIDELASTMDSNKDGNIDFNEFLRAFVYVHK  
 YETPESPLNK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001034935

**ORF Size:** 1920 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\\_001034935.1](#), [NP\\_001030107.1](#)

**RefSeq Size:** 2497 bp

**RefSeq ORF:** 1923 bp

**Locus ID:** 317498

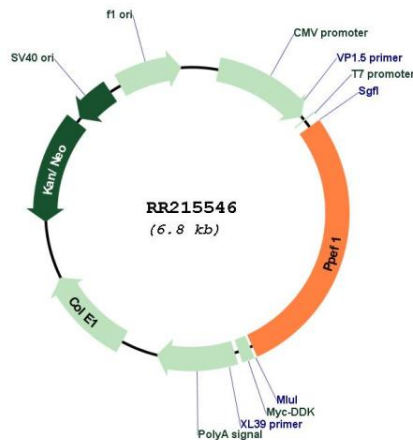
**UniProt ID:** [Q3SWT6](#)

**Cytogenetics:** Xq14

**MW:** 74 kDa

**Gene Summary:** May have a role in the recovery or adaptation response of photoreceptors. May have a role in development (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for RR215546