

Product datasheet for **SC111671**

PPEF1 (NM_006240) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PPEF1 (NM_006240) Human Untagged Clone
Tag:	Tag Free
Symbol:	PPEF1
Synonyms:	PP7; PPEF; PPP7C; PPP7CA
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC111671 sequence for NM_006240 edited (data generated by NextGen Sequencing)

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ATGGGATGCAGCAGTTCTTCAACGAAAACCAGGAGATCTGACACATCACTGAGAGCTGCG
TTGATCATCCAGAACTGGTACCGAGGTTACAAAGCTCGACTGAAGGCCAGACAACACTAT
GCCCTCACCATCTCCAGTCCATCGAATATGCTGATGAACAAGGCCAAATGCAGTTATCC
ACCTTCTTTTCTCATGTTGGAAAACACACACATATACATAAGGAAGAGCTAGAATTA
AGAAATCAGTCTCTTGAAGCGAACAGGACATGAGGGATAGATGGGATTATGTGGACTCG
ATAGATGTCCCAGACTCCTATAATGGTCTCGGCTACAATTTCTCTCACTTGTACGGAT
ATTGATTTACTTCTTGAGGCCTTCAAGGAACAACAGATACTTCATGCCATTATGTCTTA
GAGGTGCTATTTGAAACCAAGAAAGTCCTGAAGCAAATGCCGAATTTCACTCACATACAA
ACTTCTCCCTCCAAGAGGTAACAATCTGTGGTGATTTGCATGGGAAACTGGATGATCTT
TTTTTGATCTTCTACAAGAATGGTCTCCCCTCAGAGAGGAACCCGTATGTTTTAATGGT
GACTTTGTAGATCGAGGAAAGAATTCATAGAGATCCTAATGATCCTGTGTGTGAGTTTT
CTTGTCTACCCCAATGACCTGCACTTGAACAGAGGGAACCCGATGTTTTATGATGAAT
CTGAGGTATGGCTTCACGAAAGAAATTTGCATAAATAAGCTACATGGAAAAAGAATC
TTACAAATCTTGGAAGAATTCTATGCCTGGCTCCAATCGGTACAATCGTTGACAATGAA
ATCCTGGTCATCCATGGTGGGATATCAGAGACCACAGACTTGAATTTACTCCACCGTGTA
GAGAGGAACAAGATGAAATCTGTGCTGATACCACCAACGGAAACAACAGAGACCATGAC
ACTGACTCGAAGCACAATAAAGTAGGTGTGACTTTTAAATGCACATGGAAGAATCAAAACA
AATGGATCTCCTACTGAACACTTAACAGAGCATGAATGGGAACAGATTATTGATATTCTG
TGGAGTGATCCCAGAGGCAAAAATGGCTGTTTTCCAAATACGTGCCGAGGAGGGGCTGC
TATTTTGGACCAGATGTTACTTCCAAGATTCTTAATAAATACCAGTTGAAGATGCTCATC
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CCTCTTCGCCAAAGAGTGGATACTATGGAAAACAGCGCCATCAAGATATTAAGAGAGAGA
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GGAAAACCTTCTGTGAGCCAGTGGGCTTTTTGCATGGAGAACATTTTGGGGCTGAACTTA
CCATGGAGATCCCTCAGTTCGAATCTGGTAAACATAGACCAAAAATGGAACGTTGAATAC
ATGTCCAGCTCCAGAATATCCGCATTGAAAAACCTGTACAAGAGGCTCATTCTACTCTA
GTTGAAACTCTGTACAGATACAGATCTGACCTGGAAATCATATTTAATGCCATTGACACT
GATCACTCAGGCCTGATCTCCGTGGAAGAATTTGCTGCCATGTGGAAACTTTTTAGTTCT
CACTACAATGTTACATTGATGATTTCCCAAGTCAATAAGCTTGCCAACATAATGGACTTG
AACAAAGATGGAAGCATTGACTTTAATGAGTTTTTAAAGGCTTTCTATGTAGAGCATAGA
TATGAAGACTTGATGAAACCTGATGTCACCAACCTTGGCTAA
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Clone variation with respect to NM_006240.2
1913 t=>a

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_006240 unedited
 TTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGGCGGTTTCCTTCC
 CTCCCTCCTGTGTATTCTCATTAGAATCTATGACTGAAGAGGATCGGCTAAGAGTGGTT
 CCTCGCAGCTTAAAGGGAGGCACCTTTTCACACTCTGTCTTAAAATCAGAAGTTGAATTCA
 TGAACACATATGATTTAGATAGAAGTCATGGGATGCAGCAGTTCTTCAACGAAAACCAGG
 AGATCTGACACATCACTGAGAGCTGCGTTGATCATCCAGAATGGTACCGAGGTTACAAA
 GCTCGACTGAAGGCCAGACAACACTATGCCCTCACCATCTTCCAGTCCATCGAATATGCT
 GATGAACAAGGCCAAATGCAGTTATCCACCTTCTTTTCCTTCATGTTGGAAAACACACA
 CATATACATAAGGAAGAGCTAGAATTAAGAAATCAGTCTCTTGAAAGCGAACAGGACATG
 AGGGATAGATGGGATTATGTGGACTCGATAGATGTCCCAGACTCTATAATGGTCCCTCGG
 CTACAATTTCTCTCACTGTACGGATATTGATTTACTTCTTGAGGCCTTCAAGGAACAA
 CAGATACTTCATGCCATTATGTCTTAGAGGTGCTATTTGAAACCAAGAAAGTCTGAAG
 CAAATGCCGAATTTCACTCACATACAACTTCTCCCTCCAAGAGGTAACCATCTGTGGT
 GATTTGCATGGGAACTGGATGATCTTTTTTTTGTCTTACAGAAATGGTCTCCCTC
 AGAGAGGAACCCGTATGTTTTTATGGTGACNTTGTAGATCGAGGAAAGATCCATAGAGAT
 CTATGATCCTGGNGTGAGTTTCTGTCTACCCATGACCG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_006240 unedited
 TGGACCGCGCCGAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTACAGTTTAAAGATG
 GAAAGACTTTATCCATGAATAACCTGGTATTCCTCCTGTCTCCCTCAGTCACTCACAGA
 TGTCAAGCTTAGTAGTTTTCTTGTGCTGTATGAGTTCCTTTCAGGATGTTTTCAAACC
 GCTCTGGCTCCTGGTTAGGTGGCACTCACGACAACCACTTAAAGGTCACCAACCCAGTT
 TCTCACTGGCAATATGTAGGTAATAAGTCTGAAACCAATCCTATTACTGACATTTAACC
 TAATCTTACCAATAACAAGCTTGCTAGGGACTTCCAAAACCCATACTATGCATCTGTTTTG
 TGGGATGAATTGGGATCTGCTTTTCTCTGCTACTGACTATGAATTTCAAGGGTGTGGAA
 AGGACTGTACTTGTGATTTGGCCCTAGCTGTTTCAGGGAGCCTGAGGGAAAGCTCTCATT
 GTGTTTAGCCAAGTTGTGACATCANGTTTCATCAAGTTCATATCTATGCTCTACATA
 GAAAAGCCCTTAACTCATTAAAGTCAATGCTTCCATCTTTGNTCAAGTCCATTTATGTN
 GGCAGCTTATTGACTTGGGAATCATCAATGTGAACATTGTANTGAGAATAAAAAAGTTC
 ACATGGCACGAAATTTCTCCACGAGATCAGGCCTGANTGATCAGTGTCAATGGCATTAA
 TATGATTTCCAGTCAGATCTGTATCTGACAGAGTTTCAACTAGAGTAGAATGACCTTNT
 TGTACAAGTTTTCAATGCGAATTTCTTGAAAGCTGGCAATGATTCAACGTTTCCATTTT
 GGCCATTGTTACCAAATTCAACTGAAGGATCTCCTGGAAGTTCACCCCAAATAGTTTTCA
 TGCAAAAACCCCTGCTCCCAAAGTTTTCTGATTTCTTGGGCTTTGAATGGAAGCCCAA
 TAGGGCATTTTTCGAAACACTCTTTTTAATATTGAAGGCCCGGTTCTAAATCACCTCT
 GGCGAAAAGCTAAACC

Restriction Sites:

NotI-NotI

ACCN:

NM_006240

Insert Size:

2700 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_006240.2](#), [NP_006231.2](#)

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]
Transcript Variant: This variant (1) encodes the predominant isoform (1).