

Product datasheet for **SC314127**

PPEF1 (NM_152226) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PPEF1 (NM_152226) Human Untagged Clone
Tag:	Tag Free
Symbol:	PPEF1
Synonyms:	PP7; PPEF; PPP7C; PPP7CA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

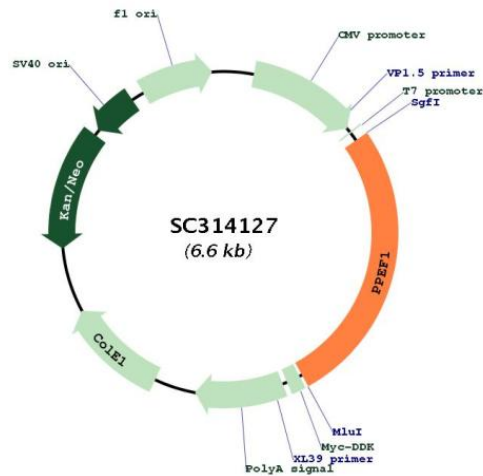


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Fully Sequenced ORF: >SC314127 representing NM_152226.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGGATGCAGCAGTTCTTCAACGAAAACCAGGAGATCTGACACATCACTGAGAGCTGCGTTGATCATC
CAGAAGTGGTACCGAGGTTACAAAGCTCGACTGAAGGCCAGACAACACTATGCCCTCACCATCTCCAG
TCCATCGAATATGCTGATGAACAAGGCCAAATGCAGTTATCCACCTTCTTTTCTTCATGTTGAAAAC
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CGTGCCATGTGGAACCTTTTAGTTCTCACTACAATGTTACATTGATGATTTCCCAAGTCAATAAGCTT
GCCAACATAATGGACTTGAACAAAGATGGAAGCATTGACTTTAATGAGTTTTTAAAGCTTTCTATGTA
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI

Plasmid Map:


ACCN: NM_152226

Insert Size: 1776 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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_152226.1](#)

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

MW: 68.8 kDa

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 (3) lacks an in-frame exon in the coding region compared to variant 1, resulting in an isoform (3) that is missing an internal segment compared to isoform 1. Isoform 3 contains a catalytic domain and two EF-hand motifs. Its functional significance is unknown.