

## Product datasheet for **SC320867**

### PEF1 (NM\_012392) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PEF1 (NM_012392) Human Untagged Clone
Tag:	Tag Free
Symbol:	PEF1
Synonyms:	ABP32; PEF1A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_012392.1  
 GGGGACGT CAGAA TACCATGGCCAGCTATCCTTACCGGCAGGGCTGCCAGGAGCTGCA  
 GGACAAGCACCAGGAGCCCTCCGGGTAGCTACTACCCTGGACCCCAATAGTGGAGGG  
 CAGTATGGTAGTGGGCTACCCCTGGTGGTGGTTATGGGGTCTGCCCTGGAGGGCT  
 TATGGACCACCAGCTGGTGGAGGGCCCTATGGACACCCAATCCTGGGATGTTCCCTCT  
 GGAATCCAGGAGACCATATGGCGTGCAGCTCCCGGGGGCCCTATGGTCAGCCACT  
 CCAAGTTCCTACGGTGCCAGCAGCTGGGCTTTATGGACAGGGTGGCGCCCTCCCAAT  
 GTGGATCCTGAGGCCTACTCCTGGTCCAGTCGGTGGACTCAGATCACAGTGGCTATATC  
 TCCATGAAGGAGCTAAAGCAGGCCCTGGTCAACTGCAATTGGTCTTCATTCAATGATGAG  
 ACCTGCCTCATGATGATAAACATGTTTGACAAGACCAAGTCAGGCCGCATCGATGTCTAC  
 GGCTTCTCAGCCCTGTGGAAATTCATCCAGCAGTGAAGAACCCTTCCAGCAGTATGAC  
 CGGGACCCTCGGGCTCCATTAGCTACACAGAGCTGCAGCAAGCTCTGTCCCAAATGGGC  
 TACAACCTGAGCCCCAGTTCACCCAGCTTCTGGTCTCCCGCTACTGCCACGCTCTGCC  
 AATCCTGCCATGCAGCTTGACCGCTTCATCCAGGTGTGCCACCCAGCTGCAGGTGCTGACA  
 GAGGCCTTCCGGGAGAAGGACACAGCTGTACAAGGCAACATCCGGCTCAGCTTCGAGGAC  
 TTCGTACCATGACGGCTTCTCGGATGCTATGACCCAACCATCTGTGGAGAGTGGAGTGC  
 ACCAGGGACCTTTCCTGGCTTCTTAGAGTGAGAGAAGTATGTGGACATCTCTTTTCC  
 TGTCCCTCTAGAAGAACATTCTCCCTTGCTTGATGCAACACTGTTCCAAAAGAGGGTGA  
 GAGTCTGCATCATAGCCACCAATAGTGAAGACCGGGCTGAGGCCACACAGATAGGGG  
 CCTGATGGAGGAGAGGATAGAAGTTGAATGTCCTGATGGCCATGAGCAGTTGAGTGGCAC  
 AGCCTGGCACCAGGAGCAGGTCTTGAATGGAGTTAGTGTCCAGTCAGCTGAGCTCCAC  
 CCTGATGCCAGTGGTGAAGTTCATCGGCCTGTTACCGTTAGTACCTGTGTTCCCTCACC  
 AGGCCATCCTGTCAAACGAGCCATTTTCTCAAAGTGGAACTGACCAAGCATGAGAGA  
 GATCTGTCTATGGGACCAGTGGCTTGGATTCTGCCACACCATAAATCCTTGTGTGTTAA  
 CTTCTAGCTGCCTGGGGCTGGCCCTGCTCAGACAAATCTGCTCCCTGGGCATCTTTGGCC  
 AGGCTTCTGCCCTCTGCAGCTGGGACCCCTCACTTGCCTGCCATGCTCTGCTCGGCTTCA  
 GTCTCCAGGAGACAGTGGTCACCTCTCCCTGCCAATACTTTTTTAATTTGCATTTTTTT  
 TCATTTGGGGCCAAAAGTCCAGTAAAATTGTAAGCTTCAATAAAAGGATGAAACTCTAAA  
 AAAAAAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** Please inquire

**ACCN:** NM\_012392

**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\\_012392.1](#), [NP\\_036524.1](#)

**RefSeq Size:** 1641 bp

**RefSeq ORF:** 855 bp

**Locus ID:** 553115

**UniProt ID:** [Q9UBV8](#)

**Cytogenetics:** 1p35.2

**Domains:** EFh

**Gene Summary:** This gene encodes a calcium-binding protein belonging to the penta-EF-hand protein family. The encoded protein has been shown to form a heterodimer with the programmed cell death 6 gene product and may modulate its function in Ca(2+) signaling. Alternative splicing results in multiple transcript variants and a pseudogene has been identified on chromosome 1. [provided by RefSeq, May 2010]  
Transcript Variant: This variant (1) represents the longest transcript and encodes the longer isoform (1).