

## Product datasheet for **SC329007**

### PLS1 (NM\_001172312) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PLS1 (NM_001172312) Human Untagged Clone
Tag:	Tag Free
Symbol:	PLS1
Synonyms:	DFNA76
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_001172312, the custom clone sequence may differ by one or more nucleotides

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ATGGAAAACAGTACTACTACCATTTCTCGGGAGGAGCTTGAAGAACTACAAGAGGCATTT
AATAAAATAGATATTGACAATAGTGGGTATGTCAGTGACTATGAACCTCAAGACCTGTTT
AAGGAAGCAAGCCTTCTCTGCCTGGCTACAAGGTGCGCGAGATTGTGGAGAAAATTCTA
TCAGTTGCTGACAGCAACAAAGATGGCAAATCAGTTTTGAAGAGTTTGTGTCACTAATG
CAAGAAATAAAAAGCAAAGATATCAGCAAAACATCCGAAAAAATAATTAACAAGAGGGAA
GGGATTACTGCTATTGGAGGAACCTCAACTATTTCCAGTGAGGGCACACAGCATTCTTAT
TCAGAGGAAGAAAAAGTGGCTTTTGTAACTGGATAAACAAAGCCCTGGAGAATGACCTT
GACTGTAAGCATCTTATACCCATGAATCCCAATGATGATAGTCTTTTCAAGTCACTTGCA
GATGGCATCCTTCTTTGCAAAATGATCAACTTATCTGAACCAGATACAATTGATGAAAGA
GCCATCAATAAGAAAAAGCTCACGCCATTCACTATTTCTGAAAATTTAAACCTAGCTCTG
AATTCTGCCTCAGCCATTGGTTGTACAGTGGTCAACATTGGTGCATCAGATCTCAAAGAA
GGAAAACCTCACTTGGTCTTGGGACTTCTCTGGCAGATCATCAAAGTTGGCCTTTTGTCT
GATATTGAGATTTCCAGGAATGAAGCTCTGATTGCATTGTTAAATGAAGGTGAGGAACTA
GAGGAGCTGATGAAGCTTCTCCCGAGGAATTACTGCTGCGATGGGTGAACCTACCATCTG
ACCAATGCAGGATGGCATACCATCAGCAACTTCAGCCAAGACATTAAGGACTCGAGAGCC
TATTTTCATCTGCTTAATCAGATTGCCCTAAAGGTGGGGAAGATGGACCTGCCATTGCC
ATTGACCTTTCAGGAATTAATGAGACAAATGACCTGAAGCGTGTGGACTCATGCTTCAA
GAAGCAGATAAACTGGGCTGCAACAGTTTGTACTCCTGCAGATGTGGTTTCAGGCAAT
CCTAAACTTAATTTAGCTTTTGTAGCTAATTTGTTTAAACATACCCGTGCCTGCACAAG
CCGAATAATAATGACATCGATATGAATTTACTGGAAGGAGAGCAAGGAAGAGAGAACA
TTTCGGAAGTGGATGAATTCCTTGGGAGTCAACCATAACATTAATCATTGTACAGTGAC
CTTGACAGATGCTTTAGTGATCTTTCAGCTCTATGAGATGATCCGAGTGCCAGTCAACTGG
AGCCATGTCAACAAACCTCCTTATCCTGCCCTTGAGGGAACATGAAGAAGATTGAAAAC
TGTAACTATGCAGTGGAACCTTGGGAAGAACAAGGCCAAATTCTCCTTGGTTGGCATTGCT
GGGCAGGACCTAAATGAAGGGAATTCAACACTTACCCTGGCATTGGTATGGCAGCTGATG
AGAAGGTACACATTGAATGTGTTATCGGATCTTGGAGAGGGTAAAAAGTAAATGATGAA
ATTATAATTAATGGGTCAATCAGACTCTTAAAAGTGCAAAACAAAAGACTTCTATTTCC
AGCTTCAAGGATAAATCTATAAGCACAAAGTTTACCTGCCTAGATTTAATAGATGCCATT
GCACCAAAATGCAGTTCGTCAGAAATGATCAGGAGAGAAAACCTTATCTGATGAGGACAAG
CTGAACAATGCTAAATACGCCATTTCAAGTTGCTCGAAAGATCGGTGCCCGGATATATGCA
TTACCTGATGACCTCGTAGAAGTGAACCAAAGATGGTTATGACGGTGTTTGCATGCTTA
ATGGGAAAAGGACTGAACAGAATAAAATAA
    
```

**Restriction Sites:** Please inquire

**ACCN:** NM\_001172312

**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\\_001172312.1](#), [NP\\_001165783.1](#)

**RefSeq Size:** 3880 bp

**RefSeq ORF:** 1890 bp

**Locus ID:** 5357

**UniProt ID:** [Q14651](#)

**Cytogenetics:** 3q23

**Gene Summary:** Plastins are a family of actin-binding proteins that are conserved throughout eukaryote evolution and expressed in most tissues of higher eukaryotes. In humans, two ubiquitous plastin isoforms (L and T) have been identified. The protein encoded by this gene is a third distinct plastin isoform, which is specifically expressed at high levels in the small intestine. Alternatively spliced transcript variants varying in the 5' UTR, but encoding the same protein, have been found for this gene. A pseudogene of this gene is found on chromosome 11. [provided by RefSeq, Feb 2010]

Transcript Variant: This variant (3) contains an alternate 5' terminal non-coding exon, thus has a different 5' UTR compared to variant 1. Transcript variants 1, 2 and 3 encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.