

## Product datasheet for **SC118504**

### PLS1 (NM\_002670) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PLS1 (NM_002670) 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: >OriGene ORF within SC118504 sequence for NM\_002670 edited (data generated by NextGen Sequencing)

```
ATGGAAAAAGTACTACTACCATTTCTCGGGAGGAGCTTGAAGAACTACAAGAGGCATTT
AATAAAATAGATATTGACAATAGTGGGTATGTCAGTGACTATGAACTTCAAGACCTGTTT
AAGGAAGCAAGCCTTCTCTGCCTGGCTACAAGGTGCGCGAGATTGTGGAGAAAATTCTA
TCAGTTGCTGACAGCAACAAAGATGGCAAATCAGTTTTGAAGAGTTTGTGCTACTAATG
CAAGAATTAAGCAAGATATCAGCAAACATCCGAAAAATAATTAACAAGAGGGAA
GGGATTACTGCTATTGGAGGAACCTCAACTATTTCCAGTGAGGGCACACAGCATTCTTAT
TCAGAGGAAGAAAAAGTGGCTTTTGTAACTGGATAAACAAAGCCCTGGAGAATGACCTT
GACTGTAAGCATCTTATACCCATGAATCCCAATGATGATAGTCTTTTCAAGTCACTTGCA
GATGGCATCCTTCTTTGCAAAATGATCAACTTATCTGAACCAGATACAATTGATGAAAGA
GCCATCAATAAGAAAAAGCTCACGCCATTCACTATTTCTGAAAATTTAAACCTAGCTCTG
AATTCTGCCTCAGCCATTGGTTGTACAGTGGTCAACATTTGGTGCATCAGATCTCAAAGAA
GGAAAACCTCACTTGGTCTTGGGACTTCTCTGGCAGATCATCAAAGTTGGCCTTTTTGCT
GATATTGAGATTTCCAGGAATGAAGCTCTGATTGCATTGTTAAATGAAGGTGAGGAACTA
GAGGAGCTGATGAAGCTTCTCCCGAGGAATTACTGCTGCGATGGGTGAACTACCATCTG
ACCAATGCAGGATGGCATACCATCAGCAACTTCAGCCAAGACATTAAGGACTCGAGAGCC
TATTTTCACTGCTTAATCAGATTGCCCTAAAGGTGGGAAGATGGACCTGCCATTGCC
ATTGACCTTTCAGGAATTAATGAGACAAATGACCTGAAGCGTGTGGACTCATGCTTCAA
GAAGCAGATAAATGGGCTGCAAAACAGTTTGTACTCCTGCAGATGTGGTTTTAGGCAAT
CCTAAACTTAATTTAGCTTTTGTAGCTAATTTGTTAACACATACCCGTGCCTGCACAAG
CCGAATAATAATGACATCGATATGAATTTACTGGAAGGAGAGCAAGGAAGAGAGAACA
TTTCGGAAGTGGATGAATTCCTTGGGAGTCAACCCATACATTAATCATTGTACAGTGAC
CTTGCAGATGCTTTAGTGATCTTTCAGCTCTATGAGATGATCCGAGTGCCAGTCAACTGG
AGCCATGTCAACAAACCTCCTTATCCTGCCCTTGAGGGAACATGAAGAAGATTGAAAAC
TGTAACTATGCAGTGGAACCTTGGGAAGAACAAGGCCAAATTCCTTGGTTGGCATTGCT
GGGCAGGACCTAAATGAAGGGAATTCAACACTTACCCTGGCATTGGTATGGCAGCTGATG
AGAAGGTACACATTGAATGTGTTATCGGATCTTGGAGAGGGTAAAAAGTAAATGATGAA
ATTATAATTAATGGGTCAATCAGACTCTTAAAAGTGCAAAACAAAAGACTTCTATTTCC
AGCTTCAAGGATAAATCTATAAGCACAAAGTTTACCTGTCCTAGATTTAATAGATGCCATT
GCACCAAATGCAGTTCGTCAAGAAATGATCAGGAGAGAAAACCTTATCTGATGAGGACAAG
CTGAACAATGCTAAATACGCCATTTCAAGTTGCTCGAAAGATCGGTGCCCGGATATATGCA
TTACCTGATGACCTCGTAGAAGTGAACCAAAGATGGTTATGACGGTGTGTCATGCTTA
ATGGGAAAAGGACTGAACAGAATAAAATAA
```

Clone variation with respect to NM\_002670.2

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_002670 unedited  
 TTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCGGGCGCGGAGAGG  
 TAGCCGCAGAGTGGACCTGCAGGTACTTGGATCTCCAGTGGGAGCTGCCCTCTCGAAGGC  
 AGGACAGCGGTGGCGGCAGATATAAAGACCTGAAGATAGTCTTTTCTGTCCAAAGATGGA  
 AAACAGTACTACTACCATTTCTCGGGAGGAGCTTGAAGAACTACAAGAGGCATTTAATAA  
 AATAGATATTGACAATAGTGGGTATGTCAGTGACTATGAACTTCAAGACCTGTTTAAGGA  
 AGCAAGCCTTCTCTGCCTGGCTACAAGGTGCGCGAGATTGTGGAGAAAATTTATCAGT  
 TGCTGACAGCAACAAAGATGGCAAAAATCAGTTTTGAAGAGTTTGTGCTACTAATGCAAGA  
 ATTA AAAAGCAAAGATATCAGCAAAAACATTCGAAAAAATAATTAACAAGAGGGAAGGGAT  
 TACTGCTATTGGAGGAACTTCAACTATTTCCAGTGAGGGCACACAGCATTCTTATTTCAGA  
 GGAAGAAAAAGTGGCTNTTGTAACTGGATAAACAAAGCCCTGGAGAATGACCCTGACTG  
 TAAGCATCTTATACCCATGAATCCCATGATGATAGTCTTTTCAAGTCACTTGCAGATGGC  
 ATCCTTCTTGTGCANATGATCAACTTATCTGAACCAGATACCATTGATGAAAGAGCCATCA  
 ATAAGAAAAGCTCAGCCATTCATATNTCTGAAAATTTAAACCTAGCTCTGAATTCTGC  
 CTCAGCCATNGGNTGTACAGTGGTCAACAATGGNTGCATCAGAATCTCAAAGAANGGA  
 AACCTCACTTGGNTCTTGGGACTTCTCTGGCAGATCATCAAGNTGGCCTTTTTGCTGA  
 TATTGAGATTCCAGAN

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_002670 unedited  
 ACCGCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTATATACACAGCATTTT  
 TATTAATACTCTGTGAGAAAAAGAACACCCTAAAGTGCCAGATTTTCATGTAATCCA  
 ATAACTTAGTAAATACAATGGTGA AAAAAAATCAGAGGAAACATAATTTAAATAATCTT  
 ATAAAAGAGCAAGAACATATCTTAATCTTAAGAAAACAATCATCAAAATATAAAGGGAA  
 AGAAATCTCTTTGTAGAGAATATATTTCAAATTCACCTGTTGATCATTTTCATTTAA  
 AAATTCTATTCTAAACACATGGGCGTCTCTTACCAATATATATTTAAATCAATGG  
 TAGAAAGGGAATTTAGACTACTCATTACACTGAGATAAAGTGACATTTTTGTTGCACAA  
 CAGTATTGCTCACTGGCACTAACAGTGGAAAGATGGAGAAAGTAGATTTCTGGATTCAATT  
 GTTAGCAGCAGAAATGGACTAATGCTAAAAATTTAGAAAAAATAGTCCAAGCTGTAGCG  
 ATTTCCAAGTAATACAAACATTAACCAACATTGCCAATTTGTAAACGGGCTGTAAAAAC  
 ATATGAAAATACTCTACATTGAATACTAGCTTTATGTTACTTTCTATTAAGATATTCAG  
 TGGGCATATTCTAAATTATATAGGGCTTCTATAGAGACCTANACTAGCAAGTATAATATG  
 AAGCTAACAGGACAGTGTGAGCATATCTTGGGGATGTCTAGCCAATGGTTGGGCTACAGT  
 ATTTGGAAGGNGTCAATACTATATGCACATTCAATGAATACTTATAAAGAAATCTTA  
 TGTATCAGATATCACAGNACTGAAAGTGTACACATGTTGTGGGGGAAATACTGATGGNT  
 GGGCTGATGACCCATTAACATACCCTTATGAAAGCTGGNTGATT

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_002670

**Insert Size:**

3900 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\\_002670.1](#), [NP\\_002661.1](#)

**RefSeq Size:** 3639 bp

**RefSeq ORF:** 1890 bp

**Locus ID:** 5357

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

**Cytogenetics:** 3q23

**Domains:** CH, EFh

**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 (2) 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.