

## Product datasheet for **RG206291**

### PLS1 (NM\_002670) Human Tagged ORF Clone

#### Product data:

<b>Product Type:</b>	Expression Plasmids
<b>Tag:</b>	TurboGFP
<b>Symbol:</b>	PLS1
<b>Synonyms:</b>	DFNA76
<b>Mammalian Cell Selection:</b>	Neomycin
<b>Vector:</b>	pCMV6-AC-GFP (PS100010)
<b>E. coli Selection:</b>	Ampicillin (100 ug/mL)



**ORF Nucleotide Sequence:** >RG206291 representing NM\_002670  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGGAAACAGTACTACTACCATTTCTCGGGAGGAGCTTGAAGAACTACAAGAGGCATTTAATAAATAG  
 ATATTGACAATAGTGGGTATGTCACTGACTATGAACTTCAAGACCTGTTTAAGGAAGCAAGCCTTCTCT  
 GCCTGGCTACAAGGTGCGGAGATTGTGGAGAAAATTCATCAGTTGCTGACAGCAACAAAGATGGCAAA  
 ATCAGTTTTGAAGGATTTGTGTCACTAATGCAAGAATTAAGCAAGATATCAGCAAAACATTCGGAA  
 AAATAATTAACAAGAGGGAAGGGATTACTGCTATTGGAGGAACTTCAACTATTTCCAGTGAGGGCACACA  
 GCATTTACTCAGAGGAAGAAAAAGTGGCTTTTGTAACTGGATAAACAAAGCCCTGGAGAATGACCCCT  
 GACTGTAAGCATCTTATACCCATGAATCCCAATGATGATAGTCTTTTCAAGTCACTTGCAGATGGCATCC  
 TTCTTTGCAAAATGATCAACTATCTGAACCAGATAACAATTGATGAAAGAGCCATCAATAAGAAAAAGCT  
 CACGCCATTCATTTCTGAAAATTTAACTAGCTCTGAATTCGCCCTCAGCCATTGGTTGTACAGTG  
 GTCAACATTGGTGATCAGATCTCAAAGAAGGAAAACCTCACTTGGTCTTGGGACTTCTCTGGCAGATCA  
 TCAAAGTTGGCCTTTTGTGATATTGAGATTTCCAGGAATGAAGCTCTGATTGCATTTGTTAAATGAAGG  
 TGAGGAACTAGAGGAGCTGATGAAGCTTTCTCCGAGGAATTAAGTCTGCGATGGGTGAAGTACCATCTG  
 ACCAATGCAGGATGGCATAACCATCAGCAACTTCAAGCAAGCATTAAAGGACTCGAGAGCCTATTTTCATC  
 TGCTTAATCAGATTGCCCTAAAGGTGGGGAAGATGGACCTGCCATTGCCATTGACCTTTACGGAATTA  
 TGAGACAAATGACCTGAAGCGTGTGGACTCATGCTTCAAGAAGCAGATAAACTGGGCTGCAAAACAGTTT  
 GTTACTCCTGCAGATGTGGTTTCAGGCAATCCTAACTTAATTTAGCTTTTGTAGCTAATTTGTTAAACA  
 CATACCCATGCCTGCACAAGCCGAATAATAATGACATCGATATGAATTTACTGGAAGGAGAGCAAGGA  
 AGAGAGAACATTTTCGAACTGGATGAATTCCTTGGGAGTCAACCCATACATTAATCATTGTTACAGTGAC  
 CTTGCAGATGCTTTAGTGATCTTTCAGCTCTATGAGATGATCCGAGTCCAGTCAACTGGAGACATGTCA  
 ACAAACCTCCTTATCCTGCCCTTGGAGGGAACATGAAGAAGATTGAAAACCTGAACTATGCAGTGGAACT  
 TGGGAAGAACAAGGCCAAATTCCTTGGTTGGCATTGCTGGCAGGACCTAAATGAAGGGAATTCACAA  
 CTTACCCCTGGCATTGGTATGGCAGCTGATGAGAAGGTACACATTGAATGTGTTATCGGATCTTGGAGAGG  
 GTGAAAAAGTAAATGATGAAATTAATAAATGGGTCAATCAGACTCTTAAAAAGTGCAAAACAAAAAGAC  
 TTCTATTTCCAGCTTCAAGGATAAATCTATAAGCACAAGTTTACCTGTCTAGATTTAATAGATGCCATT  
 GCACCAAATGCAGTTCGTCAAGAAATGATCAGGAGAGAAAACCTTATCTGATGAGGACAAGCTGAACAATG  
 CTAATACGCCATTTAGTTGCTCGAAAGATCGGTGCCCGGATATATGCATTACCTGATGACCTCGTAGA  
 AGTGAAACCAAGATGTTATGACGGTGTTCATGCTTAATGGGAAAAGGACTGAACAGAATAAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG206291 representing NM\_002670  
 Red=Cloning site Green=Tags(s)

MENSTTTISRLEELQEAFNKIDIDNSGYVSDYELQDLFKEASLPLPGYKREIVEKILSVADSNKDGK  
 ISFEFVSLMQELKSKDISKTFRKIINKREGITAIGGTSTISSEGTQHSYSEEEKVAFVNWINKALENDP  
 DCKHLIPMNPNDLSLFLSLADGILLCKMINLSEPDIDERAINKKLLPFTISENLNLALNSASAI GCTV  
 VNIGASDLKEGKPHLVLLWQIIKVLGFADIEISRNEALIALNEGEELEELMKLSPEELLLRWVNYHL  
 TNAGWHTISNFSQDIKDSRAYFHLLNQIAPKGGEDGPAIAIDLSGINETNDLKRAGLMLQEADKLGCKQF  
 VTPADVVSNGPKLNLAFVANL FNTYPCLHKPNNDIDMNLLEGESKEERTFRNWMNSLGVNPIYINHLYS  
 LADALVIFQLYEMIRVPVNRVHVNKPPYPALGGNMKKIENCNYAVELGKNKAKFSLVGIAGQDLNEGST  
 LTLALVWQLMRRYTLNVLSDLGEGEKVNDIIEIKWVNQTLKSANKKTSISSFKDKSISTSLPVLDLIDAI  
 APNAVRQEMIRRENLSDEKLNNAKYAISVARKIGARIYALPDDLVEVKPKMVMVTFACL MGKLNRIK

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

## Cloning Scheme:



**ACCN:** NM\_002670

**ORF Size:** 1887 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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.

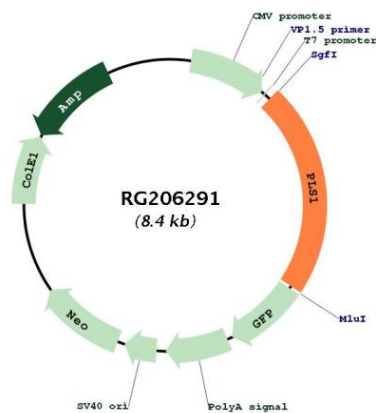
**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [NM\\_002670.1](#), [NP\\_002661.1](#)

RefSeq Size:	3639 bp
RefSeq ORF:	1890 bp
Locus ID:	5357
UniProt ID:	<a href="#">Q14651</a>
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]

### Product images:



Circular map for RG206291