

Product datasheet for **SC321932**

T Plastin (PLS3) (NM_005032) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	T Plastin
Synonyms:	BMND18; T-plastin
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



Fully Sequenced ORF:

>OriGene sequence for NM_005032.3 ATCGTCGACCCACGCGTCCGCCACGCGTCCGCTTTAGAGCCACAGCTGCAAAGATTCCG
 AAGTGCAGAAGTTGTCTGAGTGCCTGGTGGCGGCAGTCGGGCCAGACCCAGGACTCTG
 CGACTTTACATCTTTAAATGGATGAGATGGCTACCACTCAGATTTCCAAAGATGAGCTTG
 ATGAACCTCAAAGAGGCCTTTGCAAAAGTTGATCTCAACAGCAACGGATTCAATTTGTGACT
 ATGAACTTCATGAGCTCTTCAAGGAAGCTAATATGCCATTACCAGGATATAAAGTGAGAG
 AAATTATTCAGAACTCATGCTGGATGGTGACAGGAATAAAGATGGGAAAATAAGTTTTG
 ACGAATTTGTTTATATTTTCAAGAGGTAAAAAGTAGTGATATTGCCAAGACCTTCCGCA
 AAGCAATCAACAGGAAAGAGGTATTTGTGCTCTGGGTGGAACCTCAGAGTTGTCCAGCG
 AAGGAACACAGCATTCTTACTCAGAGGAAGAAAAATATGCTTTTGTAACTGGATAAACA
 AAGCTTTGGAAAATGATCCTGATTGTAGACATGTTATACCAATGAACCCTAACACCGATG
 ACCTGTTCAAAGCTGTTGGTGATGGAATTGTGCTTTGTAATGATTAACTTTCACTTC
 CTGATACCATTTGATGAAAGAGCAATCAACAAGAAGAACTTACACCTTCATCATTCAGG
 AAAACTTGAACCTGGCACTGAACTCTGCTTCTGCCATTGGGTGTCTGTTGTGAACATTG
 GTGCAGAAGATTTGAGGCTGGGAAACCTCATCTGTTTTGGGACTGCTTTGGCAGATCA
 TTAAGATCGTTTTGTCGCTGACATTGAATTAAGCAGGAATGAAGCCTTGGCTGCTTTAC
 TCCGAGATGGTGAGACTTTGGAGGAACTTATGAAATTGTCTCCAGAAGAGCTTCTGCTTA
 GATGGGCAAACTTTCAATTTGAAAACTCGGGCTGGCAAAAAATTAACAACCTTTAGTGCTG
 ACATCAAGGATTCAAAGCCTATTTCCATCTTCTCAATCAATCGACCAAAAAGGACAAA
 AGGAAGGTGAACACCGGATAGATATTAACATGTCAGGTTTCAATGAAACAGATGATTGA
 AGAGAGCTGAGAGTATGCTTCAACAAGCAGATAAATTAGGTTGCAGACAGTTTGTACCC
 CTGCTGATGTTGTGAGTGGAAACCCCAAACTCAACTTAGCTTTCTGGGCTAACCTGTTTA
 ATAAATACCCAGCACTAACTAAGCCAGAGAACCAGGATATTGACTGGACTCTATTAGAAG
 GAGAACTCGTGAAGAAAGAACCTTCCGTAAGTGGATGAACCTCTTGGTGCAATCCTC
 ACGTAAACCATCTCTATGCTGACCTGCAAGATGCCCTGGTAATCTTACAGTTATATGAAC
 GAATTAAGGTTCTGTTGACTGGAGTAAGGTTAATAAACCTCCATACCCGAACTGGGAG
 CCAACATGAAAAAGCTAGAAAAGTCAACTATGCTGTTGAATTAGGGAAGCATCCTGCTA
 AATTCTCCCTGGTTGGCATTGGAGGCAAGACCTGAATGATGGGAACCAACCTGACTT
 TAGCTTTAGTCTGGCAGCTGATGAGAAGATATACCCTCAATGTCCTGGAAGATCTTGAG
 ATGGTCAGAAAGCAATGACGACATCATTGTGAACCTGGGTGAACAGAACGTTGAGTGAAG
 CTGGAATACTCAACTTCCATTGAGATTTTAAAGACAAGACGATCAGCTCCAGTTTGGCAG
 TTGTGGATTTAATTGATGCCATCCAGCCAGGCTGTATAAATATGACCTTGTGAAGAGTG
 GCAATCTAACAGAAAGATGACAAGCACAATATGCCAAGTATGAGTGTCAATGGCTAGAA
 GAATCGGAGCCAGAGTGTATGCTCTCCCTGAAGACCTTGTGGAAGTAAAGCCCAAGATGG
 TCATGACTGTGTTGATGTTGATGGGCAGGGGAATGAAGAGAGTGTAAAAAATCAACAT
 CTGAATAAACAGCCATGCTCCAGGTGCATGATTCGACAGTCACTATTCCAGGTGAA
 GTGCTTATAGCTTAAAGAACTCTTGGCCATTCAAAGGACTTTTCATTTTATTAAACAGGA
 CTAGCTTATCATGAGAGCCCTCAGGGGAAAGGGTTAAGAAAAACAACCTCTTTCCCA
 TAGTCAGATTTGAATTTGTGAGGCAGCCTGAAATGTGCTCATAGCCAAACATTTTACT
 CTCTCCTCTAGAATGCTGCCCTTGACATTTCCATTGCTGTATGTTATTTCTTGCTCTG
 TTATCTTTTCCCTCTTAGAATGTCCTCTCTTGGGACTTGCTTAGATGATGGGATATGA
 ATATTATTAGACAGTAATTTTGCTTTCCATCCAGTATGCTAGTTCTTATTCGAGAACTAT
 GGTGAGAGCGTATTTGGATATGAGTATCCTTTGCTTATCTTTGTAGTACTGAAAATTTGC
 CGAAGTAACTGGCTGTGCAGAAATGTAATAGAAGCTTTTCTATTCTTTTATTCTTAAGAT
 CAGTATCTTTTACAGTATTCTTTCTACATGATCCTTTTTTGTACATTTAAGAATATTTT
 GATTATATTAACAAGACTGCTGATTTTGTACTTTTTTTAAGGGGTCTTCAAGTAAGTA
 AAACATACATCGTAGCTAGAAGAAAAATGTACCTTAATTTGCATCTTCCCTCTCATACC
 CAAGCTGTAAACAATTGAAATATTTTGTCTTAATCACTTGGTTCAATACATGCTTATTT
 GTTTTAAACCTGTATCATCAAACTCTCTCTAAATTTAAATGCTGTTGAATATGATA
 CTTTTGAGGAGAGAGTGTGCTCAGAACTTAGACGGGATTTGGTAGGCCAAGTATGCTAAG
 TGTACAATATATTTTTTAAATTTACACCTGAAACAAAGAAATGGGTCACTAAAAATAAA
 AGTATATATGTAGGAATTAATGTACTCTTGCTTTGTCAAGCTGTTTGTATAGTTTCCAA
 GGTATTATGTTACTCTAACTCTGAAAAGTATGTAATCTGGTAGCAATGTAGTAGTTCAA
 ATAAAGGCATTTACATAATAAAAAAAAAAAAAAAAAA

Restriction Sites:

Please inquire

ACCN:	NM_005032
OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery. 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 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_005032.3 , NP_005023.2
RefSeq Size:	3089 bp
RefSeq ORF:	1893 bp
Locus ID:	5358
UniProt ID:	P13797
Cytogenetics:	Xq23
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. Plastin 1 (otherwise known as Fimbrin) is a third distinct plastin isoform which is specifically expressed at high levels in the small intestine. The L isoform is expressed only in hemopoietic cell lineages, while the T isoform has been found in all other normal cells of solid tissues that have replicative potential (fibroblasts, endothelial cells, epithelial cells, melanocytes, etc.). The C-terminal 570 amino acids of the T-plastin and L-plastin proteins are 83% identical. It contains a potential calcium-binding site near the N terminus. Alternate splicing results in multiple transcript variants.[provided by RefSeq, Feb 2010]

Transcript Variant: This variant (1) encodes the longest isoform (1). Variants 1 and 2 encode the same isoform.