

Product datasheet for **RC227557**

T Plastin (PLS3) (NM_001136025) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	T Plastin (PLS3) (NM_001136025) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	T Plastin
Synonyms:	BMND18; T-plastin
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC227557 representing NM_001136025
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGATGAGATGGCTACCACTCAGATTTCCAAAGATGAGCTTGATGAACTCAAAGAGGCCTTTGCCAAAAG
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Protein Sequence:

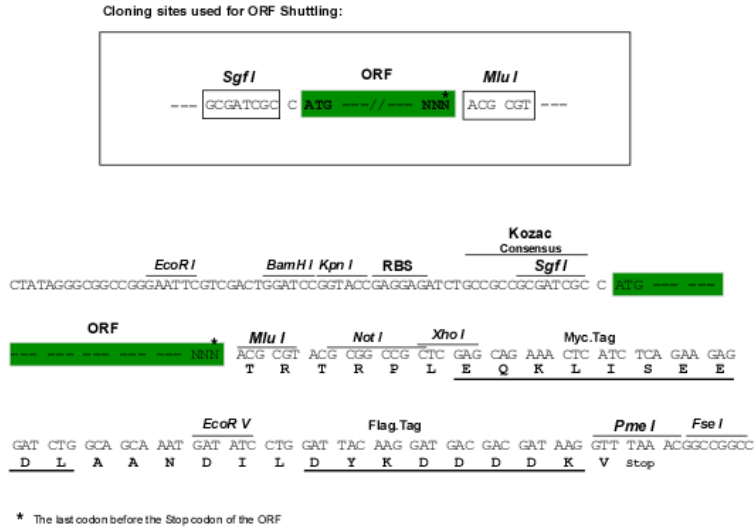
>RC227557 representing NM_001136025
 Red=Cloning site Green=Tags(s)

MDEMATTQISKDELDELKEAFKVDLNSNGFICDYELHELKFEANMPLPGYKVIIEIQKMLDGDNRKDG
 KISFDEFVYIFQEVKSSDIKTRKAINRKEGICALGGTSELSEGTQHSYSEEEKYAFVNWINKALEND
 PDCRHVPMNPNTDDLKAVGDGIVLCKMINLSVPDIDERAINKKLTFFIIQENLNLALNSASAIKCH
 VVNI GAEDLRAGKPHLVGLLWQIIKIGLFADIELSRNEALALLRDGETLEELMKLSPEELLLRWANFH
 LENS GWQKINNFSADIKDSKAYFHLLNQIAPKGQKEGEPRIDINMSGFNETDDLKRAESMLQQADKLGCR
 QFVTPADVVSGNPKLNLAFAVANLNFNKPALTKPENQDIDWTLLEGETREERTFRNWMNSLGVNPHVNHLY
 ADLQDALVILQLYERIKVPVDWSKVNKPPYPKLGANMKKLENCNYAVELGKHPAKFSLVIGGGQDLNDGN
 QTLTLALVWQLMRRYTLNVLEDLGDGQKANDDIIVNWVNRRLSEAGKSTSIQSFKDKTISSSLAVVDLID
 AIQPGCINYDLVKSGNLTEDDKHNNAKYAVSMARRIGARVYALPEDLVEVKPKMVMVTFACL MGRGMKRV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001136025

ORF Size: 1890 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.

RefSeq: [NM_001136025.5](#)

RefSeq Size: 3341 bp

RefSeq ORF: 1893 bp

Locus ID: 5358

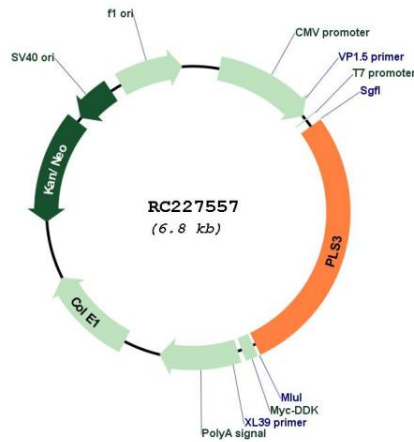
UniProt ID: [P13797](#)

Cytogenetics: Xq23

MW: 70.8 kDa

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]

Product images:



Circular map for RC227557