

## Product datasheet for SC119937

### Prealbumin (TTR) (NM\_000371) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Prealbumin (TTR) (NM_000371) Human Untagged Clone
Tag:	Tag Free
Symbol:	Prealbumin
Synonyms:	ATTR; CTS; CTS1; HEL111; HsT2651; PALB; TBPA; TTN
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC119937 sequence for NM_000371 edited (data generated by NextGen Sequencing)

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ATGGCTTCTCATCGTCTGCTCCTCCTCTGCCTTGCTGGACTGGTATTTGTGTCTGAGGCT
GGCCCTACGGGCACCGGTGAATCCAAGTGTCTCTGATGGTCAAAGTTCTAGATGCTGTC
CGAGGCAGTCTGCCATCAATGTGGCCGTGCATGTGTTTCAGAAAGGCTGCTGATGACACC
TGGGAGCCATTTGCCTCTGGGAAAACAGTGAGTCTGGAGAGCTGCATGGGCTCACAAC
GAGGAGGAATTTGTAGAAGGGATATACAAAGTGGAAATAGACACCAAACTTACTGGAAG
GCACTTGGCATCTCCCCATTCCATGAGCATGCAGAGGTGGTATTACAGCCAACGACTCC
GGCCCCGCCGTACACCATTGCCGCCCTGCTGAGCCCCTACTCCTATTCCACCACGGCT
GTCGTCACCAATCCAAGGAATGA
```

Clone variation with respect to NM\_000371.3

#### 5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_000371 unedited
CACGAGGGCAGGATGGCTTCTCATCGTCTGCTCCTCCTCTGCCTTGCTGGACTGGTATTT
GTGTCTGAGGCTGGCCCTACGGGCACCGGTGAATCCAAGTGTCTCTGATGGTCAAAGTT
CTAGATGCTGTCCGAGGCAGTCTGCCATCAATGTGGCCGTGCATGTGTTTCAGAAAGGCT
GCTGATGACACCTGGGAGCCATTTGCCTCTGGGAAAACAGTGAGTCTGGAGAGTGCAT
GGGCTCACAACCTGAGGAGGAATTTGTAGAAGGGATATACAAAGTGGAAATAGACACCAAA
TCTTACTGGAAGGCACTTGGCATCTCCCCATTCCATGAGCATGCAGAGGTGGTATTACACA
GCCAACGACTCCGGCCCCCGCCGTACACCATTGCCGCCCTGCTGAGCCCCTACTCCTAT
TCCACCACGGCTGTGTCACCAATCCAAGGAATGAGGGACTTCTCCTCCAGTGGACCTG
AAGGACGAGGGATGGGATTTTCATGTAACCAAGAGTATTCCATTTTACTAAAGCAGTGTT
TTCACCTCATATGCTATGTTAGAAGTCCAGGCAGAGACAATAAAACATTCCTGTGAAAGG
CAAAAAAAAAAAAAAAAAACTCGACTCTAGATTGCGGCCGCGGTATAGCTGTTTCCTGA
ACAGATCCCGGGTGGCATCCCTGTGACCCTCCCAAGTGCCTCTCCTGGCCCTGGAAGTT
GCCACTCCAGTGCCCACCAGCCTTGTCTAATAAAATTAAGTTGCATCATT
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<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_000371 unedited GCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTGCCTTTCACAGGATGTTTTATTGTCT CTGCCTGGACTTCTAACATAGCATATGAGGTGAAAACACTGCTTTAGTAAAAATGGAATA CTCTTGGTTACATGAAATCCCATCCCTCGTCTTCAGGTCCACTGGAGGAGAAGTCCCTC ATTCTTGGGATTGGTGACGACAGCCGTGGTGAATAGGAGTAGGGGCTCAGCAGGGCGG CAATGGTGTATCGGCGGGGGCCGGAGTCGTTGGCTGTGAATACCACCTCTGCATGCTCAT GGAATGGGGAGATGCCAAGTGCCTTCCAGTAAGATTTGGTGTCTATTTCCACTTTGTATA TCCCTTCTACAAATTCTCCTCAGTTGTGAGCCATGCAGCTCTCCAGACTCACTGGTTT TCCCAGAGGCAAATGGCTCCCAGGTGTCATCAGCAGCCTTTCTGAACACATGCACGGCCA CATTGATGGCAGGACTGCCTCGGACAGCATCTAGAACTTTGACCATCAGAGGACACTTGG ATTCACCGGTGCCGTATGGCCAGCCTCAGACACAATACCAGTCCAGCAAGGCAGATGA GGAGCAGACGATGAGAAGCCATCTGCCCTCGTGCCGAATTCGCGGCCGCCCTATAGTGA GTCGTATTACAAAATTCTGACGGTTCATAAACGAGCTCTGCTTATATAGACCTNCCACC GTACACGCCTACCGCCATTTTGCCTCACGGGGCGGGTTATTACGACATTTTGGAAAGT CCCCGTGATTTTGGTGCCAACCAACTCCCATGACGTCATGGGGTGAGACTTGAATCCCC CGAGTCAACCGCTATCAGCCATTGTTGACGCCAAACCGCTCACATGGNATAGCGAGACT ATACCTAAAGTACTGCAGTAGAAGTCCCGTAGTCATGACTGGCTAATGCAGCGGCCCTTTA CGTCTGAGTAATAGGGCGACTCGCTT
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_000371
<b>Insert Size:</b>	630 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_000371.1</a></u> , <u><a href="#">NP_000362.1</a></u>
<b>RefSeq Size:</b>	615 bp
<b>RefSeq ORF:</b>	444 bp
<b>Locus ID:</b>	7276
<b>UniProt ID:</b>	<u><a href="#">P02766</a></u>
<b>Cytogenetics:</b>	18q12.1
<b>Domains:</b>	TR_THY

**Protein Families:** ES Cell Differentiation/IPS, Secreted Protein

**Gene Summary:** This gene encodes one of the three prealbumins, which include alpha-1-antitrypsin, transthyretin and orosomuroid. The encoded protein, transthyretin, is a homo-tetrameric carrier protein, which transports thyroid hormones in the plasma and cerebrospinal fluid. It is also involved in the transport of retinol (vitamin A) in the plasma by associating with retinol-binding protein. The protein may also be involved in other intracellular processes including proteolysis, nerve regeneration, autophagy and glucose homeostasis. Mutations in this gene are associated with amyloid deposition, predominantly affecting peripheral nerves or the heart, while a small percentage of the gene mutations are non-amyloidogenic. The mutations are implicated in the etiology of several diseases, including amyloidotic polyneuropathy, euthyroid hyperthyroxinaemia, amyloidotic vitreous opacities, cardiomyopathy, oculoleptomeningeal amyloidosis, meningocerebrovascular amyloidosis and carpal tunnel syndrome. [provided by RefSeq, Aug 2017]