

Product datasheet for SC100746

TDRD7 (NM_014290) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TDRD7 (NM_014290) Human Untagged Clone
Tag:	Tag Free
Symbol:	TDRD7
Synonyms:	CATC4; PCTAIRE2BP; TRAP
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC100746 sequence for NM_014290 edited (data generated by NextGen Sequencing)

```

ATGCTGGAAGGAGATCTGGTTTCAAAGATGCTGCGAGCTGTTCTGCAGTCTCATAAGAAT
GGAGTAGCATTACCCCGCTCCAAGGAGAGTACAGATCCTTGACTGGAGACTGGATCCCC
TTCAAACAGCTAGGTTTCCCTACACTAGAAGCCTATCTGAGAAGTGTGCCAGCAGTGGTC
AGGATAGAGACTAGTAGATCTGGAGAGATTACCTGCTATGCCATGGCCTGCACAGAACT
GCAAGAATTGCTCAGCTTGTGGCTCGTCAAAGGAGTTCTAAAAGGAAAACCGGGCGTCAA
GTTAATTGTCAGATGAGAGTGAAGAAAACCATGCCATTTTTTCTAGAAGGAAAACCAAAA
GCAACCCTCAGACAACCAGGATTTGCTTCAAATTTTTCTGTTGGCAAAAAACCTAATCCA
GCACCGTTAAGAGACAAAGGAACTCTGCTGGAGTTAAGCCTGATGCTGAAATGTCTCCT
TATATGCTACACACAACCTTTGGAAATGAAGCATTCAAAGACATTCAGTGCAAAGGCAT
GTGACCATGTCCACCAACACAGGTTTAGCCCAAAGGCGTCCCTTCAGCCACCTTTGCAG
ATGCATCTCTCAAGAACCTCTACTAAGGAAATGAGTGATAATTTAAATCAGACTGTTGAA
AAACCCAATGTCAAGCCTCCTGCCTTTACACTTATAAATGGATGAGGTTCAAAATCGC
ATAAAGGAAATACTAAACAAGCATAACAATGGCATTGGATATCTAAGCTCCACATTTT
TACAAAGAGTTATATAAAGAAGACCTTAATCAAGGAATTTTACAACAGTTTGAACACTGG
CCTCATATTTGCACGGTGGAGAAACCTTGCAGTGGTGGCCAAGATTTACTTCTTTATCCA
GCTAAGAGAAAAGCAGCTTTTGAAGTGAAGTGGATACTGAGAAAGTACCTCTATCCCCA
CTACCTGGTCCCAACAACACCACCGTTGAAAGGGTGTCCAACAGTTATGGCAGGAGAC
TTTAAAGAAAAGTGGCAGACCTGCTGGTGAATACACAAGTGGCCTTTGGGCCAGTGCA
CTTCCGAAAAGCATTGAGGAAATGTACAAAGTGAATTCCTGAGGATGCCTTAAAAAAT
CTTGCCTCACTTTCTGATGTATGCAGCATAGACTACATTTCTGGAAATCCCCAGAAGGCC
ATTCTCTATGCTAAACTTCCATTGCCACTGACAAAATCCAAAAGGATGCAGGGCAAGCA
CATGGTGATAATGATATCAAGGCTATGGTTGAACAAGAGTATTTGCAGGTAGAAGAAAGC
ATTGCTGAAAGTGCTAATACCTTTATGGAGGACATAACAGTTCCTCCTTAAATGATTCCA
ACTGAAGCATCACCATCTGTATTGGTGGTTGAACTGAGCAACACAATGAAGTGGTTATC
AGGTATGTGGCAAGACTATTCTGCTGCTCAGGAATTAATGGAAGATGAGATGAAGGAA

```



[View online »](#)

TATTACAGTAAGAATCCTAAGATCACACCAGTCCAGGCTGTGAATGTTGGGCAGTTGCTG
 GCCGTAATGCCGAGGAGGACGCCTGGTTACGGGCACAGGTCATCTCAACAGAAGAGAAC
 AAAATAAAGGTATGCTATGTTGACTATGGTTTTAGTGAAAATGTTGAAAAAGCAAAGCA
 TACAAATTAACCCGAAGTTTTGTTCACTCTCATTTCAGCTACAAAATGTAAGCTTGCA
 GGCTTGGAAAGTCTAAGCGATGACCCTGATCTAGTGAAGGTGGTGAATCTTTAAGTTGT
 GGAAGATCTTTGAGTGGAAATACTTGACAAAGCTGACATCCACTTGTGTTCTGTAC
 GATACCTCAGGAGAAGATGATATCAATATCAATGCCACCTGCTTGAAGGCTATATGTGAC
 AAGTCACTAGAGTTACCTGCAGGTTGACGCCATGTACACAAAATGTCAAAGTAACTAAT
 ATTTGCTCTGATGGGACACTCTACTGCCAGGTGCCTTGTAAAGGGTCTGAACAAGCTCAGT
 GACCTTCTACGTAAGATAGAGGACTACTTCCATTGCAAGCACATGACCTCTGAGTGCTTT
 GTTTCATTACCCTTCTGTGGGAAAATCTGCCTCTTCCATTGCAAAGGAAAATGGTTACGA
 GTAGAGATCACAAATGTTACAGCAGCCGGGCTTTGATGTTGAGTTCCTGGACTCTGGC
 ACTGTGACATCTGTAAGGTGTCAGAGCTCAGGGAAAATCCACCTCGGTTTCTACAAGAA
 ATGATTGCAATACCACCTCAGGCCATTAAGTGCTGTTTAGCAGATCTCCACAATCTATT
 GGCATGTGGACACCAGATGCAGTCTGTGTTAAGAGATTCTGTTTTGAATTGCTCGGAC
 TGTAGCATTAAAGTTACAAAAGTGGATGAAACCAGAGGGATCGCACATGTTTATTTATTT
 ACCCCTAAGAACTTCCCTGACCCTCATCGCAGTATTAATCGCCAGATTACAAATGCAGAC
 TTGTGGAAGCATCAGAAGGATGTGTTTTGAGTGCCATATCCAGTGGAGCTGACTCTCCC
 AACAGCAAAAATGGCAACATGCCCATGTCCGGCAACACTGGAGAGAAATTCAGAAAAGAAC
 CTCACAGATGTCATCAAAAAGTCCATGGTGGACCATACGAGCGCTTTCTCCACAGAGGAA
 CTGCCACCTCCTGTCCACTTATCAAAGCCAGGGGAACACATGGATGTGTATGTGCCTGTG
 GCCTGTCAACCAGGCTACTTCGTCATCCAGCCTTGGCAGGAGATACATAAGTTGGAAGTT
 CTGATGGAAGAGATGATTCTATATTACAGCGTGTCTGAAGAGCGCCACATAGCAGTGGAG
 AAAGACCAAGTGTATGCTGCAAAAAGTGGAAAATAAAGTGGCACAGGGTGTCTTTAAAAGGA
 ATCCTGACCAATGGACTGGTATCTGTGTATGAGCTGGATTATGGCAAAACGAATTAGTC
 AACATAAGAAAAGTACAGCCCCTAGTGGACATGTTCCGAAAGCTGCCCTTCCAAGCAGTC
 ACAGCTCAACTTGCAGGAGTGAAGTGAACCAAGTGGTCTGAGGAGGCTTCTATGGTGTTT
 CGAAATCATGTGGAGAAGAAACCTCTGGTGGCACTGGTGCAGACAGTCATTGAAAATGCT
 AACCTTGGGACCGAAAAGTGTGGTCTACTTAGTGGACACATCGTTGCCAGACACCGAT
 ACCTGGATTGATTTTTATGTCAGAGTATCTGATAGAGCTTTCAAAGTTAATTA

Clone variation with respect to NM_014290.2
 33 a=>g;449 t=>c;588 a=>g

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_014290 unedited
 CGAATTCGGCACCAGGTGGGCGGCGCCGCGGGGCCCTGGCGGAGACGGCGGCAGG
 AGCTGGGCCAGAGACGCGGGGACGGGCGTGGGCCCGGAACGAGGCAAGATGCTGG
 AAGGAGATCTGGTTTCAAAGATGCTGCGAGCTGTTCTGCAGTCTCATAAGAATGGAGTAG
 CATTACCCCGGCTCCAAGGAGAGTACAGATCCTTGACTGGAGACTGGATCCCCTTCAAAC
 AGCTAGGTTTCCCTACACTAGAAGCCTATCTGAGAAGTGTGCCAGCAGTGGTCAGGATAG
 AGACTAGTAGATCTGGAGAGATTACCTGCTATGCCATGGCCTGCACAGAACTGCAAGAA
 TTGCTCAGCTTGTGGCTCGTCAAAGGAGTTCTAAAAGGAAAACCGGGCGTCAAGTTAATT
 GTCAGATGAGAGTGAAGAAAACCATGCCATTTTTTCTAGAAGGAAAACCAAAGCAACCC
 TCAGACAACCAGGATTTGCTTCAAATTTTTCTGTTGGCAAAAACCTAATCCAGCACCGT
 TAAGAGACAAAGGAACTCTGCTGGAGTTAAGCCTGATGCTGAAATGTCTCCTTATATGC
 TACACACACCTTGGAAATGAAGCATTCAAAGACATTCAGTGCAAAGGCATGTGACCA
 TGTCCACCAACAACAGGTTTAGCCCAAAGGCGTCCCTTCAACCACCTTTGCAGATGCATC
 TCTCAAGACCCTCTACTAAGGAAATGAGTGATACTTTAATA

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_014290 unedited NNNNNCCGATAAAGCATGGACCGGGCCGCAATCTAGGATCGAGTTTTTTTTTTTTTTTT TTTATATTGATAAACATTTTTATTCTAATATTATAGTAATAATTCAAGTACAATTTTCTT TGAAAAGTCAACTCTGTTAAAACAAAACCTGTTAAATATCTTTCATCAAACATAAGCATA TTCTTTTCAATCCCCACAGCAGTCAGAGCCATGTAGCAGAGTTAAGATTTTTTTAAGC CTACTACATTTTGTATTGCTAAAAAATCTGAATTAGTTGTCAAGGTTTCAGAGGCAGTC ATTAATTAACTTTTGAAAGCTCTATCAGATACTGACATAAAAATCATGAATCCAGGTAT CGGTGTCTGGCAACGATGTGTCCACTAAGTAGACCACTACTTTCCGGTCCCAAGGTTAG CATTTTCAATGACTGTCTGCACCAGTGCCACCAGAGGTTTCTTCTCCACATGATTTCGAA ACACCATAGAAGCCTCCTCAGACCACTGGTTGCACTTCACTCCTGCAAGTTGAGCTGTGA CTGCTTGGAAAGGCAGCTTCGGAACATGTCCACTAGGGGCTGTACTTTTCTTATGTTGA CTAATTCGTGTTGCCATAATCCAGCTCATACACAGATACCAGTCCATTGGTCAGGATTC CTTTTAAAAGCACCTGTGCCACTTATTTCCACTTTTGCAGCATACACTTTGGTCTTTC TCCACTGTATGTGGCGCTTTCAGACAGCTGGTATATAGGATCATCTTCCATCAGA ACTTCCNACTTATGTATCNTCTGCNCAGGCTGGATGACGAAGTACCCTGGGTGACAGGCC ACAGGCACATACACATCCATGTGTTCCCTGGCTTGATAATGGACAGGAGGTGGCAT
Restriction Sites:	NotI-NotI
ACCN:	NM_014290
Insert Size:	4000 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:	<ol style="list-style-type: none"> 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:	<u>NM_014290.1</u> , <u>NP_055105.1</u>
RefSeq Size:	3784 bp
RefSeq ORF:	3297 bp
Locus ID:	23424
UniProt ID:	<u>Q8NHU6</u>
Cytogenetics:	9q22.33
Domains:	TUDOR, TUDOR

Gene Summary:

The protein encoded by this gene belongs to the Tudor family of proteins. This protein contains conserved Tudor domains and LOTUS domains. It is a component of RNA granules, which function in RNA processing. Mutations in this gene have been associated with cataract formation in mouse and human. Alternative splicing results in multiple transcript variants.

[provided by RefSeq, Nov 2014]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).