

Product datasheet for **SC120366**

DTD1 (NM_080820) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DTD1 (NM_080820) Human Untagged Clone
Tag:	Tag Free
Symbol:	DTD1
Synonyms:	C20orf88; DTD; DUE-B; DUEB; HARS2; pqn-68
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC120366 sequence for NM_080820 edited (data generated by NextGen Sequencing)

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ATGAAGCCGTGGTGCAGCGCTCACCCGGCCAGCGTCACAGTTGGAGGAGAGCAGATT
AGTGCCATTGGAAGGGGCATATGTGTGTTGCTGGGTATTTCCCTGGAGGATACGCAGAAG
GAACTGGAACACATGGTCCGAAAGATTCTAAACCTGCGTGTATTTGAGGATGAGAGTGGG
AAGCACTGGTCGAAGAGTGTGATGGACAAACAGTACGAGATTCTGTGTGTGTCAGCCAGTTT
ACCCTCCAGTGTGTCCTGAAGGGAAACAAGCCTGATTTCCACCTAGCAATGCCACGGAG
CAGGCAGAGGGCTTCTACAACAGCTTCTGGAGCAGCTGCGTAAAACATACAGGCCGGAG
CTTATCAAAGATGGCAAGTTTGGGGCTACATGCAGGTGCACATTCAGAATGATGGGCT
GTGACCATAGAGCTGGAATCGCCAGCTCCCGGCACTGCTACCTCTGACCCAAAGCAGCTG
TCAAAGCTCGAAAACAGCAGCAGAGGAAAGAAAAGACCAGAGCTAAGGGACCTTCTGAA
TCAAGCAAGGAAAGAAACTCCCGAAAAGAAGACCGCAGTGCCAGCAGCGGGGCTGAG
GGCGACGTGTCCTCTGAACGGGAGCCGTAG

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Clone variation with respect to NM_080820.4



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_080820 unedited GTCAGATTTTGTAAACGACTCACTATAGGGCGGCNCGCGAATTCGCACGAGGGCGCTTC CGGGTGTACCTCCAGAGGCGCCGGCTGCGGAGCCGCCCTCAGAGTCGCGAGGCCGGACG CAGCGCGGCGCCGCCCACTCGCCCCAGCCGCCCATGAAGGCCGTGGTGCAGCGCGTC ACCCGGCCAGCGTCACAGTTGGAGGAGAGCAGATTAGTGCCATTGGAAGGGGCATATGT GTGTTGCTGGGTATTTCCCTGGAGGATACGAGAAGGAACTGGAACACATGGNTCCGAAA GATTCTAAACCTGCGTGTATTTGAGGATGAGAGTGGAAGCACTGGTCAAGAGTGTGAT GGACAAAACAGTACGAGATTCTGTGTGTCAGCCAGTTTACCCTCCAGTGTGTCTGAAGGG AAACAAGCCTGATTTCCACCTAGCAATGCCACGAGCAGGCAGAGGGCTTCTACAACAG CTTCTGGAGCAGCTGCGTAAAACATACAGGCCGGAGCTTATCAAAGATGGCAAGTTTGG GGCCTACATGCAGGTGCACATTCAGAATGATGGGCCTGTGACCATAGAGCTGGAATCGCC AGCTCCCGGCACTGCTACCTCTGACCCAAAGCAGCTGTCAAAGCTCGAAAAACAGCAGCA GAGGAAAGAAAAGACCAGAGCTAAGGGACCTTCTGAATCAAGCAAGGAAAGAAACACTTC CCCGAAAGAACCGCAGTGCCAGCAGCGNGCTGAGGGCGACGTGTCTCTGAACGGGA GCCGTAGCTCANGAGGCAGAATTCAGTGTGTATCATTGNGCAGAACTGGATCCCTGAAA ANNTCAGATGCTAGCACCTACACTACTTNTAGAAATTTGGACTGTAAACATGAAGAGGGAG ACAGNNAATAGAATTTGGGGACCTCGATAGCT</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_080820 unedited CCCCTCGGTCCCCCGCCCCCCCCCCCCACCCTTACTCTGNACCCGGCCGCATTCTANG ATCGGTTTTTTTTCTTTTTTTTTGGGGACCTATTATTATTTATTTTTAGAAAAAGAGAA AATTTACAAGATGCAAAGGTCTCACACAATACATTATCATTGATGATTGCTCTCTTGACA TTCAACACGGGCCCTGGCAATAAAAAGAACATGGACAGTGTGAGTGTATTGGAGAACCC CGCCATGGACACGCAGAATACACCACAGTGGACTTGATGACAAATGATGCTGGGCCAGC CTGTTCCAAAAGCAAGCCAAGATGTGGTAGAAACCAACAAGCCTTTCTGTGGGGGAGGC ACGAGCGCACACCTTTTACCACATGCGCACCCGCCCCCTGGCCCACCGGCAGTGCCCACT GGATCACTCCACCACAGCAACAACAGAAAACGATAAAAACGGTCTTTTGGTGTTTTTGCA CAGCTATTGAGTTCCCAAATCTTATTTCTGGCTTCTCTTTCATGGTTCCAGNTCCCAAA CTTTTAAAGCAGTGGACGCGCTTAGCCATTCTTGAATTTTTCAGGATCCAGCCCCTGCC AAATGATAACACACTGAACTCTGCCTTCTGAGCTACGGCTTCCGGTCAGAGGACACCGT CGACTTCAACCCCGCTGCTGGCACTGCGGCTTCTTTTTCGGGGAGATGGTTCCTTCCCT TGCTTGAACCCAGAAAGTCCCTTAGCTCCTGGGCTTTTCTTCCCGCCCGGCTGCTTTT CGAACCTTTGACAGTTGCTTTTGGGCCAAAAGGTAACCACTGCCCGGAAGCCTGGGGATT TCAGCTTTCATGGCAAAAAGGCCATCAATTTGAAAAGGGCCCTGGATGGACGCCCCCA AATTGGCCTATTTTGATAACCCCGCCCTGGTTGCTTTACCCCATGTGTCACG</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_080820
Insert Size:	1300 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:

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_080820.3](#), [NP_543010.3](#)

RefSeq Size: 1344 bp

RefSeq ORF: 630 bp

Locus ID: 92675

UniProt ID: [Q8TEA8](#)

Cytogenetics: 20p11.23

Domains: DUF154

Gene Summary: The protein encoded by this gene is similar in sequence to histidyl-tRNA synthetase, which hydrolyzes D-tyrosyl-tRNA(Tyr) into D-tyrosine and free tRNA(Tyr). The encoded protein binds the DNA unwinding element and plays a role in the initiation of DNA replication. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Dec 2015]

Transcript Variant: This variant (2) has a different 3' structure, resulting in a novel 3' coding region and 3' UTR, compared to variant 1. The encoded isoform (2) has a distinct C-terminus, and is shorter, compared to isoform 1.