

Product datasheet for **RG207233**

DTD1 (NM_080820) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: DTD1 (NM_080820) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: DTD1
Synonyms: C20orf88; DTD; DUE-B; DUEB; HARS2; pqn-68
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG207233 representing NM_080820
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAAGGCCGTGGTGCAGCGCTCACCCGGCCAGCGTCACAGTTGGAGGAGAGCAGATTAGTGCCATTG
 GAAGGGGCATATGTGTGTGCTGGGATTTCCCTGGAGGATACGCAGAAGGAAGTGAACACATGGTCCG
 AAAGATTCTAAACCTGCGTGTATTTGAGGATGAGAGTGGGAAGCACTGGTGAAGAGTGTGATGGACAAA
 CAGTACGAGATTCTGTGTGCAGCCAGTTACCCTCCAGTGTGCTCCTGAAGGGAAACAAGCCTGATTCA
 ACCTAGCAATGCCACGGAGCAGGCAGAGGGCTTCTACAACAGCTTCTGGAGCAGCTGCGTAAACATA
 CAGGCCGAGCTTATCAAGATGGCAAGTTGGGGCTACATGCAGGTGCACATTCAGAATGATGGGCT
 GTGACCATAGAGCTGGAATCGCCAGCTCCCGGCACTGCTACCTCTGACCCAAAGCAGCTGTCAAAGCTCG
 AAAACAGCAGCAGAGGAAAGAAAAGACCAGAGCTAAGGGACCTTCTGAATCAAGCAAGGAAAGAAACAC
 TCCCCGAAAAGAAGACCGCAGTGCCAGCAGCGGGGCTGAGGGCGACGTGCTCCTCTGAACGGGAGCCG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG207233 representing NM_080820
 Red=Cloning site Green=Tags(s)

MKAVVQRVTRASVTVGGEQISAIGRGICVLLGISLEDTQKELEHMVRKILNLRVFEDESGKHWSKSVMDK
 QYEILCVSQFTLQCVLKGNKPDFNLAMPTEQAEGFYNSFLEQLRKYRPELIKDGKFGAYMQVHIQNDGP
 VTIELESPAPGTATSDPKQLSKLEKQQQRKEKTRAKGPSESSKERNTPRKEDRSASSGAEGDVSSEREP

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



Cloning Scheme:


ACCN: NM_080820

ORF Size: 627 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_080820.3](#), [NP_543010.3](#)

RefSeq Size: 1344 bp

RefSeq ORF: 630 bp

Locus ID: 92675

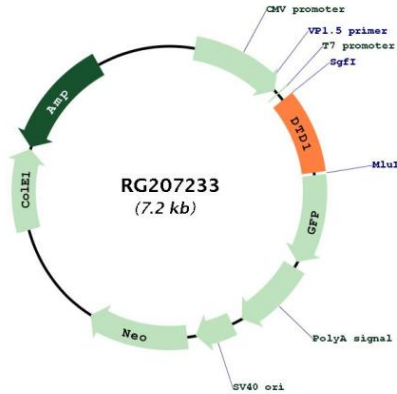
UniProt ID: [Q8TEA8](#)

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]

Product images:



Circular map for RG207233