

Product datasheet for **MC201830**

Dtd1 (NM_025314) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Dtd1 (NM_025314) Mouse Untagged Clone
Tag: Tag Free
Symbol: Dtd1
Synonyms: 0610006H08Rik; DTD; DUE-B; Hars2
Mammalian Cell Selection: Neomycin
Vector: PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection: Kanamycin (25 ug/mL)

Fully Sequenced ORF: >BC026537 sequence for NM_025314
 GTCGAGGAGCCACCGCGGAGTCGCAAGTCTGACCACACAGCAAATCCAGTCGCTACAGCCGCCCGCA
 TGAAGGCCGTGGTGCAGCGCGTCACTCGGGCTAGCGTCACAGTTGGAGGAGAGCAGATAAGCGCCATCGG
 ACGGGGCATCTGTGTCTTGCTGGGTATTTCCATGGAAGACTCACAGAAGGAACTGGAACACATGGTTCGA
 AAGATTTTAAATCTGCGTGTGTTTGAGGACGAGAGTGGGAAGCACTGGTCCAAGAGCGTGATGGATAAGG
 AGTACGAGGTGCTGTGTGTGAGCCAGTTACCCTCCAGTGCCTCAAGGGGAACAAGCCGACTTCCA
 CCTGGCCATGCCACAGAGCAGGAGAGAGCTTACAACAGCTTCTGGAGCAGCTTCGCAAGAGCTAC
 AGACCAGAGCTTATCAGAGATGGCAAGTTTGGTGCCTACATGCAGGTGCACATTCAGAACGATGGGCCTG
 TGACTATAGAGCTGGAGTCCCCTGCTCCTGGAGCTGCTAGCTTGACCCAAAGCAGCTGTCAAAGCTGGA
 GAAACAGCAGCAGAGAAAAGAAAAGACCAGAGCCAAAGGCCCTTCTGAGTCAAGCAAAGAACGGAATGCA
 CCCCAGAAAGAAGACCGCAGCGCCAGCAGCGGGCAGAGGGTGACGTGTCTTCTGAGCGGGAGCCATAGA
 TCGGATGCAGGAGCTCAGCAAATTACCAATTGGGCAGAAATCGGATCCTGAAAAATCAAGATGCTAAAGCC
 CCTACACTGCTTTAAGAATTCGGGACTCAAATATGAAAAGAAAATCAGAAATAAGACCCTGGGAACCTGA
 ATATCCCTGCAGAAAAACACAAAGGACCATTTTATTTTGTGATTGCTGTGGTCTGATTGGGGTAGTGG
 GTGCTGTGGGATGGGAGAGTGTGTGGGTTACACCCATGCCCTCCCCATGGAGAGGGGGCCATTGGTT
 TTCTTGCTTTCTACCATGTCTTGCTTGTCTTTGGAACAGGCTGGCCTAGCATCATCTGCCTCATCTGT
 GGTGTACTGTGAGTCTGTGATCCATCTCCAGCAGATGCCTGTGTCCACCATTTCCATCATTGAGTCACA
 AGACAGGGCTGGTGTAGGCAACCAATAATAACATATTGTATGAGACTTTGCATCTTGTACATTTTCTCT
 TCTTTTCTAAAAATAAATAAAAACCAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI
ACCN: NM_025314
Insert Size: 630 bp



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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:	BC026537 , AAH26537
RefSeq Size:	1239 bp
RefSeq ORF:	630 bp
Locus ID:	66044
UniProt ID:	Q9DD18
Cytogenetics:	2 G1
Gene Summary:	An aminoacyl-tRNA editing enzyme that deacylates mischarged D-aminoacyl-tRNAs. Also deacylates mischarged glycyl-tRNA(Ala), protecting cells against glycine mischarging by AlaRS. Acts via tRNA-based rather than protein-based catalysis; rejects L-amino acids rather than detecting D-amino acids in the active site. By recycling D-aminoacyl-tRNA to D-amino acids and free tRNA molecules, this enzyme counteracts the toxicity associated with the formation of D-aminoacyl-tRNA entities in vivo and helps enforce protein L-homochirality. [UniProtKB/Swiss-Prot Function]