

## Product datasheet for **MC219308**

### Mtdh (NM\_026002) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Mtdh (NM_026002) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mtdh
Synonyms:	3D3; 3D3/Lyric; 2610103J23Rik; AEG-1; AV353288; D8Bwg1112e; Lyric
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC219308 representing NM\_026002  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCTGCACGAAGCTGGCAGGACGAGCTGGCCCAGCAGGCCGAGGAGGGCTCTGCCGGCTGCGGGAGT  
 TGCTCTCGGTTCGGCTAGGTTTTCTGCGCACGGAGTTGGGCTCGACCTGGGGCTAGAGCCGAAGCGGTA  
 CCCGGGCTGGGTGATCCTGGTGGCACC GGCGCTCTCGGGCTGCTCCTGCTCTTCTCTAGGTTACGGC  
 TGGGCCGCGGCTTGC GCCGGCGCCGCAAGAAGCGAAGGAGCCGCCCGCAAACGGGAGGAGGCGGCC  
 CGCCGACTCCGGCCCCGACGACCTAGCCAGCTGAAGAATCTCAGAAGCGAGGAGCAAAAGAAGAAGAA  
 CCGGAAGAAGCTTCTGAAAAGCCAAACCAAATGGACGGACTGTTGAAGTACCCGAGGATGAAGTTGTT  
 AGAAATCCCCGAAGTAACTGCAAAACAAGCACCAGAGACAGACAAGAAAAATGAAAAGTCAAAGAAAA  
 ATAGAAGAAATCAAAGTCAGATGCTAAAGCAGTCAAAAACAGTTCACGCCATGATGAAAAGGAAGTTGA  
 TGAAGGAGCCTGGGAACTAAAATTAGTCACAGAGAGAAAACGACAACAGCGTAAACGTGATAAAGTGCTG  
 ACTGATTCTGGTTCATTGGATTCAACTATCCCTGGGATAGAAAATATCATCACAGTTACCACCGAGCAAC  
 TTACAACATGCATCATTTCTGTTGGTTC AAGAAGAATAAAGGTGATTCTCATCTAAATGTTCAAGTTAG  
 CACTTTAAGTCTGAAAAGGAGATTCTACACTGCAGTTTCTTCAAGGCTGAATGAAAATCTTACTGTCT  
 AATGGAGGAGGCTGGAGTGAAAAGTCTGTAAAACCTCTCCTCACAATTGAGTGAGGAGAAGTGAAGTCTG  
 TCCCACCTGCTTCTGCAGGCAAGAGGAAAACAGAGCCATCGGCTTGACTCAAGACACTGGTGACACTAA  
 TGCAATGGGAAAGACTGGGGAAGGAATTGGAGTGATCGCTCAATATTTCTGGCATTGGATCTACTGCT  
 GAGCCAGTTTCTCAGTCTACCATTCTGATTATCAGTGGGATGTTAGCCGTAATCAACCTTATATCGATG  
 ATGAATGGTCTGGGTTAAATGGTTGTCTTCTGCTGACCCTAGCTCAGACTGGAATGCACCAGCAGAGGA  
 GTGGGGAACTGGGTAGATGAAGATAGAGCTTCACTTCTGAAGTCCCAGGAACCAATTTCTAATGATCAA  
 AAGTTTTCAGATGATGATAAAGAAAAAGGGGAGGAGCTTCCAACTGGAAAATCTAAAAAGAAAAAGA  
 AGAAAAAGAAGAAGCAAGGGGAAGATAACTCTCACACACAGGACACAGAAGACCTAGAAAAGGACACTAG  
 AGAAGAGCTTCCAGTGAATACCTCAAAAGCCGACCAAAAACAGGAGAAAGCTTGTCCCTGAAGACCATG  
 AGCACTAGTGACCAGCTGAAGTACTCATCAAAAATAGCCAGCCTGTCAAGACTCTTCTCTGCTATCT  
 CTGCCGAGCCATCTATTACCTTATCAAAAGGTGACTCTGACAACAGCTCTTCCCAAGTGCCACCGATGTT  
 ACAAGACACAGACAAGCCCAAGTCAAATGCTAAGCAAAACAGTGTGCCTCCCTCACAGCAAGTCTGAA  
 ACTAAGTGGGAATCTCCAAAACAATAAAAAAGAAAGAAAAGGCCAGACGGGAAACGTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAAACATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_026002
- Insert Size:** 1740 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\\_026002.4](#), [NP\\_080278.3](#)

**RefSeq Size:** 3680 bp

**RefSeq ORF:** 1740 bp

**Locus ID:** 67154

**UniProt ID:** [Q80WJ7](#)

**Cytogenetics:** 15 13.98 cM

**Gene Summary:** Downregulates SLC1A2/EAAT2 promoter activity when expressed ectopically. Activates the nuclear factor kappa-B (NF-kappa-B) transcription factor. Promotes anchorage-independent growth of immortalized melanocytes and astrocytes which is a key component in tumor cell expansion. Promotes lung metastasis and also has an effect on bone and brain metastasis, possibly by enhancing the seeding of tumor cells to the target organ endothelium. Induces chemoresistance (By similarity).[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (3) lacks an exon in the coding region, compared to variant 1. The encoded isoform (3) is shorter, compared to isoform 1. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.