

## Product datasheet for **RN211627**

### **Mtdh (NM\_133398) Rat Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Mtdh (NM_133398) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Mtdh
Synonyms:	Lyric
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

Fully Sequenced ORF: >RN211627 representing NM\_133398  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGGCTGCACGAAGCTGGCAGGACGAAGCTGGCTCAGCAGGCCGAGGAGGGCTCTGCCGGCTGCGGGAGT  
TGCTCTCTGTCGGCCTAGGTTTTCTGCGCACGGAGTTGGCCTCGACCTGGGGTTGGAGCCGAAGCGGTA  
CCCAGACTGGGTGATCCTGGTGGCACC GGCGCTCTCGGGTTGCTGCTTCTCTTCTCCTAGGTTACGGC  
TGGGCCGTGCTTGC GCCGGCGCCCGAAAAAGCGAAGGAGCCGCCCGCAAGCGGGAGGAGGTGACCC  
CGCCGACTCCGGCCCCGAGGACCCAGCCCAACTGAAGAATCTCAGAAGCGAGGAGCAAAAAGAAAAAGAA  
CCGGAAGAAGCTGCCTGAAAAGCCAAACCAATGGACGGACTGTTGAAATACCTGAAGATGAAGTTGTT  
AGAAGTCCCCGAAGTAACTGCCAAGCAGCCACCAGAGACAGACAAGAAAAATGAAAAGTCAAAGAAAA  
ATAAGAAGAAGTCAAAGTCAAGTCTAAAGCAGTGCAAAACAGTTCACGCCATGATGAAAAGGAAGTTGA  
TGAAGGAGCCTGGGAACTAAAATTAGTCACAGAGAGAAAACGACAACAGCGTAAACGTGATAAAGTCTG  
ACTGATTCGTGTTCAATTGGATTCAACTATCCCTGGGATAGAAAATACCATCACAGTTACCACCGAGCAAC  
TTACAAGTGCATCATTTCTGTTGGTTC AAGAAGAATAAAGGTGATTCTCATCTAAATGTTCAAGTTAG  
CAACTTTAAGTCTGAAAAGGAGATTCTACACTTCAGGTTTCTTCAGGGTTGAATGAAAATATTACTGTC  
AATGGAGGAGGCTGGAGTGAAAAGTCTGTAAAACCTCTCCTCACAATTGAGTGCAGGTGAGGAGAAGTGGA  
ACTCTGTCCCACCTGCTTCTGCAGGCAAGAGAAAAACAGAGCAGTCTGCTTGACTCAAGACCCTGGTGA  
TACTAATGCAAAATGGGAAAGACTGGGGAAGGAATTGGAGTGATCGCTCAATTTTTCTGGCATTGGATCT  
ACTGCTGAGCCAGTTTCTCAGTCTACCACTTCTGATTATCAGTGGGATGGTAGCCGTAATCAGCCCCATA  
TCGATGATGAATGGTCTGGGTTAAATGGTTTGTCTTCTGCTGATCCTAGCTCAGACTGGAATGCACCAGC  
AGAAGAGTGGGGAACTGGGTAGATGAAGATAGAGCTTCACTTCTGAAGTCCCAGGAGCCGATTTCTAAT  
GATCAAAAAGGATTCAGATGATGATAAGGAAAAAGGAGAAGGAGCTTCCAAGTGGAAAATCTAAAAAGA  
AAAAAAGAAAAAGAAGAAGCAAGGTGAAGATAACTCTATCACCCAGGACACAGAAGACCTAGAAAAAGGA  
CACTAGAGAAGAGCTTCCAGTGAATACCTCGAAAGCCCGTCCAAAACAGGAGAAAGCTTGTTCCTGAAG  
ACCATGAGCACTAGTATCCAGTTGAAGTACTCATCAAAAATAGCCAGCCTATCAAGACTTTCACCTG  
CTATCTCTGCCGAGCCATCTGTTACTTTATCAAAGGGTGACTCTGACAAGAGCTTTCCTCAAGTCCACC  
GATGTTACAAGACACAGACAAACCAAGTCAAATGCTAAGCAAAACAGTGTGCCTCCCTCACAGACCAAG  
TCTGAAACTAATTGGGAATCTCCAAAACAAATAAAAAAGAAGAAAAGGCCAGACGGGAAACGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAAACATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI  
ACCN: NM\_133398  
Insert Size: 1746 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

**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\\_133398.1](#), [NP\\_596889.1](#)

**RefSeq Size:** 2234 bp

**RefSeq ORF:** 1746 bp

**Locus ID:** 170910

**UniProt ID:** [Q9Z1W6](#)

**Cytogenetics:** 7q22

**Gene Summary:** human and mouse homologs are overexpressed in breast cancer tissue, bind to lung vasculature, and may play a role in promoting metastasis [RGD, Feb 2006]