

## Product datasheet for **MG227439**

### **Nt5e (NM\_011851) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Nt5e (NM_011851) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Nt5e
Synonyms:	5'-NT; 2210401F01Rik; AI447961; CD73; eNT; NT; Nt5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG227439 representing NM\_011851  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCGTCCCGCGCCGCTAAGGTACCCAAGTGGCTGCTTCTCGCACTGAGCGCTCTACTACCACAGTGGC  
 CCGCAGCCAGTGCCTGGGAGCTCACGATCCTGCACACAAACGACGTGCACAGCCGGCTAGAGCAGACCAG  
 CGATGACTCCACCAAGTGCCTCAACGCCAGCCTGTGTGTGGGCGGCGTGGCCCGGCTCTTTACCAAGGTG  
 CAGCAGATCCGCAAGGAAGAACCAACGTGCTGTTTTGGATGCCGGAGACCAGTACCAGGGCACCATCT  
 GGTTCCACGTTTACAAAGGCCTTGAAGTGGCACACTTCATGAACATCCTGGGCTACGATGCTATGGCACT  
 GGGAAATCATGAATTTGATAACGGTGTGAAGGACTGATTGATCCCCTCCTCAGAAACGTTAAATTTCCA  
 ATTCTGAGCGCAAACATTAAGGCACGGGGCCTTAGCACATCAGATATCTGGACTTTTTCTGCCATCTA  
 AAGTTCTCTCTGTTGGCGGTGAGGTTGTGGGGATTGTTGGATATACTTCAAAGGAAACCCCTTTCCTCTC  
 AAATCCAGGGACAAATTTAGTCTTTGAAGATGAAATCTCTGCATTGCAGCCTGAAGTAGATAAACTAAAG  
 ACGCTAAATGTGAATAAGATCATCGCCCTGGGGCACTCTGGTTTTGAGATGGACAAACTATCGCTCAGA  
 AAGTTCGAGGTGTGGACATCGTGGTGGGAGGACTCCAACACCTTTCTCTACACAGGAAATCCACCTTC  
 CAAAGAAGTGCCTGCGGGGAAGTACCCATTATAGTACCCGCAGATGATGGACGGCAGGTGCCTGTGGTC  
 CAGGCCTATGCCTTTGGCAAATACCTGGGCTACCTGAAGGTTGAGTTTGTATGATAAAGGCAATGTTATCA  
 CTTCTATGGAAATCCCATTCTTCTCAACAGCAGCATTCTGAAGATGCGACCATCAAAGCAGACATTA  
 CCAATGGAGGATAAAATTAGATAATTATCTACCCAGAACTCGGAGAACGATCGTCTACCTGGATGGC  
 TCCACTCAGACGTGCCGCTTCAAGGAATGCAACATGGGAAACCTGATCTGTGATGCCATGATTAACAACA  
 ACCTCAGACACCAGATGAAATGTTTTGGAACACCGTGCATGTGCATTGTAACCGGAGGTGCCATCCG  
 GTCCCCATTGATGAGAAGAACAATGGTACCATCACCTGGGAGAACCTGGCTGCTGTGCTGCCCTTTGGA  
 GGGACATTTGACCTCGTCCAATTAAGGGTCCACCCTGAAGAAGGCTTTTGGACACAGCGTGCATCGCT  
 ATGGCCAGTCCACCGGAGAGTTCCTGCAAGTGGGTGGAATCCATGTGGTGTACGATATTAACCGAAAGCC  
 CTGGAACAGAGTGGTCCAATTAGAAGTTCTCTGCACCAAGTGTGAGTGGCCATCTATGAGCCTCTTGAA  
 ATGGATAAAGTGTATAAAGTGACCCTCCAAGCTATCTGGCCAACGGTGGAGATGGATTCCAGATGATAA  
 AAGATGAATTACTAAAGCATGACTCTGGTATCAAGATATCAGCGTGGTTTTCTGAATACATCTCAAAAAT  
 GAAAGTAGTTTACCCAGCCGTTGAAGGGCGGATCAAGTTCTCTGCAGCAAGTCATTACCAGGGAAGCTTT  
 CCTTTAGTAATTCTTTCATTTTGGCAATGATCCTTATTTGTACCAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>MG227439 representing NM\_011851  
 Red=Cloning site Green=Tags(s)

MRPAAAKVPKWLALLALSALLPQWPAASAWELTILHTNDVHSRLEQTSDDSTKCLNASLVCVGGVARLFTKV  
 QQIRKEEPNVFLDAGDQYQGTIWFVYKGLEVAHFNMNILGYDAMALGNHEFDNGVEGLIDPLLRNVKFP  
 ILSANIKARGPLAHQISGLFLPSKVLVSGGEVVGIVGYTSKETPFLSNPGTNLVFEDEISALQPEVDKLL  
 TLNVNKIIALGHSGFEMDKLIAQKVRGVDIVVGGHSNTFLYTGPNPSKEVPAGKYPIVTTADDGRQVPVV  
 QAYAFGKYLGYLKFDDKGNVITSYGNPILLNSSIPEDATIKADINQWRIKLDNYSTQELGRTIVYLDG  
 STQTCRFRECNMGNLICDAMINNLRHPDEMFWNHVSMCIVNGGGIRSPIDEKNNGTITWENLAAVLPFG  
 GTFDLVQLKGSTLKKAFEHSVHRYGQSTGEFLQVGGIHVVYDINRKPWNRVVQLEVLCTKCRVPIYEPL  
 MDKVYKVTLP SYLANGGDFQMIKDELLKHDSGDQDISVVSEYISKMKVVYPAVEGRIFSAASHYQGSF  
 PLVILSFWAMILILYQ

TRTRPLE - GFP Tag - V

**Restriction Sites:**

Sgfl-Mlul

Cloning Scheme:



ACCN: NM\_011851

ORF Size: 1728 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

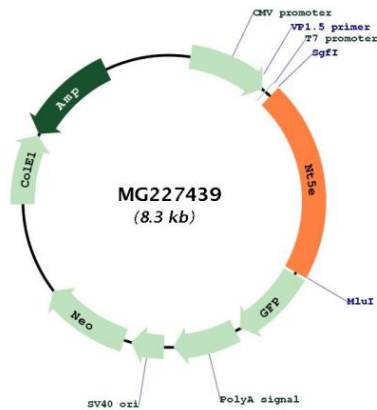
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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\\_011851.4, NP\\_035981.1](#)  
 RefSeq Size: 3580 bp  
 RefSeq ORF: 1731 bp  
 Locus ID: 23959  
 UniProt ID: [Q61503](#)  
 Cytogenetics: 9 E3.1

**Gene Summary:** This gene encodes a membrane-bound nucleotidase that hydrolyzes extracellular nucleoside monophosphates. The encoded preproprotein undergoes proteolytic processing to generate to a functional, homodimeric enzyme that preferentially uses adenosine monophosphate as a substrate to generate free adenosine. Mice lacking the encoded protein exhibit a significantly reduced fall in stop flow pressure and superficial nephron glomerular filtration rate in response to a saturating increase of tubular perfusion flow. [provided by RefSeq, Sep 2016]

**Product images:**



Circular map for MG227439