

Product datasheet for **MR227439**

Nt5e (NM_011851) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nt5e (NM_011851) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nt5e
Synonyms:	5'-NT; 2210401F01Rik; AI447961; CD73; eNT; NT; Nt5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR227439 representing NM_011851
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCGTCCCGCGGCCGCTAAGGTACCCAAGTGGCTGCTTCTCGCACTGAGCGCTCTACTACCACAGTGGC
 CCGCAGCCAGTGCCTGGGAGCTCACGATCCTGCACACAAACGACGTGCACAGCCGGCTAGAGCAGACCAG
 CGATGACTCCACCAAGTGCCTCAACGCCAGCCTGTGTGTGGCGCGGTGGCCCGGCTCTTTACCAAGGTG
 CAGCAGATCCGCAAGGAAGAACCAACGTGCTGTTTTGGATGCCGAGACCAGTACCAGGGCACCATCT
 GGTTCCACGTTTACAAAGGCCTTGAAGTGGCACACTTTCATGAACATCCTGGGCTACGATGCTATGGCACT
 GGGAAATCATGAATTTGATAACGGTGTGGAAGGACTGATTGATCCCTCCTCAGAAACGTTAAATTTCCA
 ATTCTGAGCGCAAACATTAAGGCACGGGGGCTCTAGCACATCAGATATCTGGACTTTTTCTGCCATCTA
 AAGTTCTCTCTGTTGGCGGTGAGGTTGTGGGGATTGTTGGATATACTTCAAAGGAAACCCCTTCTCTC
 AAATCCAGGGACAAATTTAGTCTTTGAAGATGAAATCTCTGCATTGCAGCCTGAAGTAGATAAACTAAAG
 ACGCTAAATGTGAATAAGATCATCGCCCTGGGGCACTCTGGTTTTGAGATGGACAAACTATCGCTCAGA
 AAGTTCGAGGTGTGGACATCGTGGTGGGAGGACTCCAACACCTTTCTCTACACAGGAAATCCACCTTC
 CAAAGAAGTGCCTGCGGGGAAGTACCCATTCATAGTCACCGCAGATGATGGACGGCAGGTGCCTGTGGTC
 CAGGCCTATGCCTTTGGCAAATACCTGGGCTACCTGAAGGTTGAGTTTGTATGATAAAGGCAATGTTATCA
 CTTCTATGGAATCCCATTCTCTCAACAGCAGCATTCTGAAGATGCGACCATCAAAGCAGACATTA
 CCAATGGAGGATAAAATTAGATAATTATCTACCCAGAACTCGGAGAACGATCGTCTACCTGGATGGC
 TCCACTCAGACCGTCCGCTTCAAGGAATGCAACATGGGAAACCTGATCTGTGATGCCATGATTAACAACA
 ACCTCAGACACCAGATGAAATGTTTTGGAACACGTTCCATGTGCATTGTAACCGGAGGTGGCATCCG
 GTCCTCCATTGATGAGAAGAACAATGGTACCATCACCTGGGAGAACCTGGCTGCTGTGCTGCCCTTTGGA
 GGGACATTTGACCTCGTCCAATTAAGGGTCCACCCTGAAGAAGGCTTTTGAGCACAGCGTGCATCGCT
 ATGGCCAGTCCACCGGAGAGTTCCTGCAAGTGGGTGGAATCCATGTGGTGTACGATATTAACCGAAAGCC
 CTGGAACAGAGTGGTCCAATTAGAAGTCTCTGCACCAAGTGTGAGTGGCCATCTATGAGCCTCTTGAA
 ATGGATAAAGTGTATAAAGTGACCCTCCAAGCTATCTGGCCACGGTGGAGATGGATTCCAGATGATAA
 AAGATGAATTACTAAAGCATGACTCTGGTATCAAGATATCAGCGTGGTTTCTGAATACATCTCAAAAAT
 GAAAGTAGTTTACCCAGCCGTTGAAGGGCGGATCAAGTCTCTGCAGCAAGTCATTACCAGGGAAGCTTT
 CCTTTAGTAATTCTTTCATTTTGGCAATGATCCTTATTTGTACCAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR227439 representing NM_011851
 Red=Cloning site Green=Tags(s)

MRPAAAKVPKLLLLALSALLPQWPAASAWELTILHTNDVHSRLEQTSDDSTKCLNASLVCVGGVARLFTKV
 QQIRKEEPNVFLDAGDQYQGTIWFTVYKGLEVAHFMMNILGYDAMALGNHEFDNGVEGLIDPLLRNVKFP
 ILSANIKARGPLAHQISGLFLPSKVLVSGGEVVGIVGYTSKETPFLSNPNTLVFEDEISALQPEVDKLL
 TLNVNKIIALGHSGFEMDKLIAQKVRGVDIVVGGHSNTFLYTGNNPSKEVPAGKYPFIVTADDGRQVPVV
 QAYAFGKYLGYLKVFFDDKGNVITSYGNPILLNSSIPEDATIKADINQWRIKLDNYSTQELGRTIVYLDG
 STQTCRFRECNMGNLICDAMINNLRHPDEMFWNHVSMCIVNGGGIRSPIDEKNGTITWENLAAVLPFG
 GTFDLVQLKSTLKKAFEHSVHRYGQSTGEFLQVGGIHVYVDINRKPWNRVVQLEVLCTKCRVPIYEPL
 MDKVYKVTLPYLANGGDFQMIKDELKHDSDGQDISVVSEYISKMKVVYPAVEGRIFSAASHYQGSF
 PLVILSFWAMILILYQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

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 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.

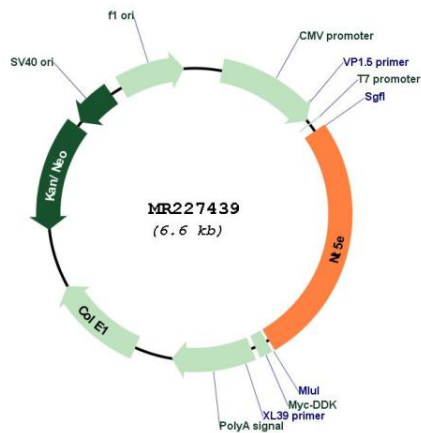
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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
MW: 64.3 kDa

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 MR227439