

Product datasheet for MR204619

Npl (NM_028749) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Npl (NM_028749) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Npl
Synonyms:	0610033B02Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204619 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCTTCCCTAAGAAGAACTCCGGGCTTGTGCTGCCACCATCACTCCAATGACAGAGAATGGAG
AAATCAACTTTCCTGTCATTGGTCAGTATGTGGATTACCTGGTGAAGGAACAGGGGGTGAAGAATTTTT
TGTGAATGGCACCACAGGAGAAGGCCTGCCCTGAGCGTCTCTGAACGTCGCCAGGTCGCGGAGGAATGG
GTTAACCAAGGGAGGAACAAGTTGGACCAGGTGGTGATTCACGTGGGAGCACTAAACGTGAAGGAGTCAC
AAGAAGTGGCCCAACATGCAGCAGAAATTGGAGCTGATGGCATTGCTGTCATTGCGCCTTCTTTTTCAA
GTCACAGAACAAAGATGCCCTGATAAGCTTCTGAGAGAGGTGGCAGCCGAGCTCCTACTTTGCCATTT
TATTACTACCACATGCCTTCCATGACCGGGTAAAGATTTCGCGCTGAGGAGCTGCTGGACGGGATTCAGG
ACAAGATCCCCACCTTCCAAGGACTGAAGTTCACCGACACGGACCTCTTGGATTTTCGGCCAATGTGTGCA
TCAGAATCACCAGCGACAGTTTGTCTTGTCTTTGGGGTGGACGAACAACTGCTGAGTGCTCTGGTCATG
GGAGCCACTGGAGCAGTAGGCAGTACCTATAACTACCTGGGAAAAAGACAAACCAGATGTTGGAAGCTT
TTGAACAGAAGGACTTGGCTTCAGCGCTCAGTTACCAGTTTCGTATCCAGAGATTTATCAACTATGTGAT
CAAGCTAGGTTTTGGAGTGTGCAAAACCAAGCCATCATGACGCTGGTCTCTGGGATTCGAATGGGCCCA
CCCCGGCTTCTCTGCAGAAAGCCACCCAGGAGTTTACTGCTAAGGCTGAGGCCAAGCTAAAGAGCCTGG
ATTTCTTTCTCCCCTAGTGTAAGGAGGGGAAGCCTTTAGCTAGTGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR204619 protein sequence
 Red=Cloning site Green=Tags(s)

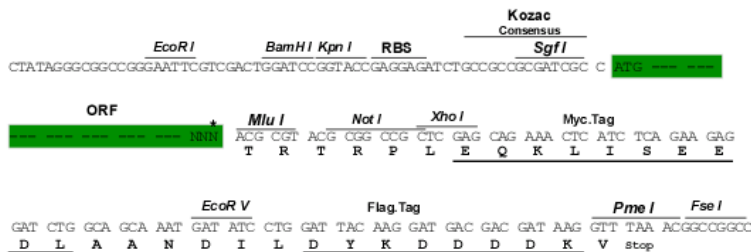
MAFPKKKLRLVAATITPMTENGEINFPVIGQYVDYLVEQGVKNIFVNGTTGEGLSLSVSERRQVAEEW
 VNQGRNKLDQVVIHV GALNVKESQELAQHAAEIGADGIAVIAPFFFKSQNKDALISFLREVAAAAPTLPF
 YYYHMPSMTGVKIRAEELLDGIQDKIPTFQGLKFTDLDLLDFGQCVDQNHQRQFALLFGVDEQLLSALVM
 GATGAVGSTYNYLGKKTNQMLEAFEQKDLASALSYQFRIQRFINYYIKLGFVVSQTKAIMTLVSGIPMGP
 PRLPLQKATQEF TAKAEAKLKS LDFLSSPSVKEGKPLASA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_028749

ORF Size: 963 bp

OTI Disclaimer: 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_028749.1](#), [NP_083025.1](#)

RefSeq Size: 1403 bp

RefSeq ORF: 963 bp

Locus ID: 74091

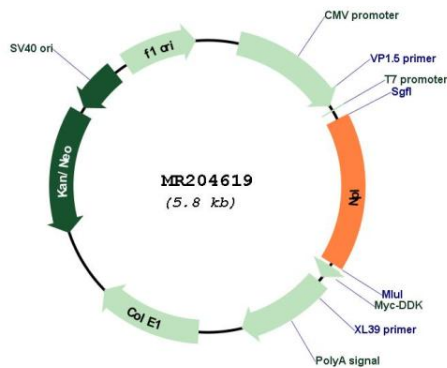
UniProt ID: [Q9DCJ9](#)

Cytogenetics: 1 G3

MW: 35.1 kDa

Gene Summary: Catalyzes the cleavage of N-acetylneuraminic acid (sialic acid) to form pyruvate and N-acetylmannosamine via a Schiff base intermediate. It prevents sialic acids from being recycled and returning to the cell surface. Involved in the N-glycolylneuraminic acid (Neu5Gc) degradation pathway.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR204619