

Product datasheet for **MG204619**

Npl (NM_028749) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Npl (NM_028749) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Npl
Synonyms: 0610033B02Rik
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG204619 representing NM_028749
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCTTCCCTAAGAAGAACTCCGGGTCTTGTGCTGCCACCATCACTCCAATGACAGAGAATGGAG
 AAATCAACTTTCCTGTCATTGGTCAGTATGTGGATTACCTGGTGAAGGAACAGGGGTGAAGAATTTTT
 TGTGAATGGCACCACAGGAGAAGCCTGTCCCTGAGCGTCTCTGAACGTCGCCAGGTCGCGGAGGAATGG
 GTTAACCAAGGGAGGAACAAGTTGGACCAGGTGGTATTACGTTGGGAGCACTAAACGTAAGGAGTCAC
 AAGAAGTGGCCCAACATGCAGCAGAAATTGGAGCTGATGGCATTGCTGTCATTGCGCCTTCTTTTTCAA
 GTCACAGAACAAAGATGCCCTGATAAGCTTCTGAGAGAGGTGGCAGCCGAGCTCCTACTTTGCCATTT
 TATTACTACCACATGCCTTCCATGACCGGGTAAAGATTTCGCGCTGAGGAGCTGCTGGACGGGATTCAGG
 ACAAGATCCCCACCTTCCAAGGACTGAAGTTCACCGACACGGACCTCTTGGATTTTCGGCCAATGTGTGCA
 TCAGAATCACCAGCGACAGTTTGTCTTGTCTTTGGGGTGGACGAACAACCTGCTGAGTGTCTGGTCATG
 GGAGCCACTGGAGCAGTAGGCAGTACCTATAACTACCTGGGAAAAAGACAAACCAGATGTTGGAAGCTT
 TTGAACAGAAGGACTTGGCTTCAGCGCTCAGTTACCAGTTTCGTATCCAGAGATTTATCAACTATGTGAT
 CAAGCTAGGTTTTGGAGTGTGCAAAACCAAGCCATCATGACGCTGGTCTCTGGGATTCGAATGGGCCCA
 CCCCCTTCTCTGCAGAAAGCCACCCAGGAGTTTACTGCTAAGGCTGAGGCCAAGCTAAAGAGCCTGG
 ATTTCTTTCTCCCCTAGTGTAAGGAGGGGAAGCCTTTAGCTAGTGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG204619 representing NM_028749
 Red=Cloning site Green=Tags(s)

MAFPKKKLRLVAATITPMTENGEINFPVIGQYVDYLVKEQGKNI FVNGTTGEGLSLSVSERRQVAEEW
 VNQGRNKLDQVVIHV GALNVKESQELAQHAAEIGADGIAVIAPFFFKSQNKDALISFLREVA AAPTLPF
 YYYHMPSMTGVKIRAEELLDGIQDKIPTFQGLKFTD TDLDFGQCVDQNHQRQFALLFGVDEQLLSALVM
 GATGAVGSTYNYLGKKTNQMLEAFEQKDLASALSYQFRIQRF INYVIKLGFGVVSQTKAIMTLVSGIPMGP
 PRLPLQKATQEFTAKAEAKLKS LDFLSSPSVKEGKPLASA

TRTRPLE - GFP Tag - V

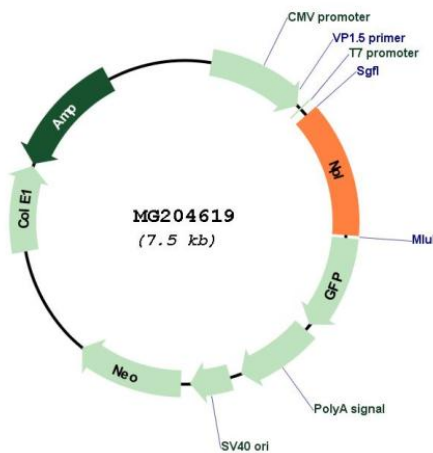
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_028749

ORF Size: 960 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:	<ol style="list-style-type: none">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
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]