

Product datasheet for **RG233519**

NPL (NM_001200051) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: NPL (NM_001200051) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: NPL
Synonyms: C1orf13; C112; NAL; NPL1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG233519 representing NM_001200051
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCTCCCAAAGAAGAACTTCAGGGTCTTGTGGCTGCAACCATCACGCCAATGACTGAGAATGGAG
AAATCAACTTTTCAGTAATTGGTCAGTATGTGGATTATCTTGTGAAAGAACAGGGAGTGAAGAACATTTT
TGTGAATGGCACAACAGGAGAAGGCCTGTCCCTGAGCGTCTCAGAGCGTCGCCAGGTTGCAGAGGAGTGG
GTGACAAAAGGAAGGACAAGCTGGATCAGGTGATAATTCACGTAGGAGCACTGAGCTTGAAGGAGTCAC
AGGAAGTGGCCCAACATGCAGCAGAAATAGGAGCTGATGGCATCGCTGTCATTGCACCGTTCTTCTCAA
GCCATGGACCAAAGATATCCTGATTAATTTCTAAAGGAAGTGGCTGCTGCCGCCCTGCCCTGCCATTT
TATTACTATCACATTCCTGCCTTGACAGGGTAAAGATTTCGTGCTGAGGAGTTGTTGGATGGGATTCTGG
ATAAGATCCCCACCTTCCAAGGGCTGAAATTCAGTGATACAGATCTTTAGACTTCGGGCAATGTGTTGA
TCAGAATCGCCAGCAACAGTTTGCTTCTTTTGGGGTGGATGAGTTTTGTATCCAGAGATTTATCAAC
TTTGTGTCAAACTAGAAAACCTAAAACCTCAAAGTTTCAAAGAACCAAAGGACTTTCCTCTGGGCCACCA
CAAACCTCCCCTTCTCCAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG233519 representing NM_001200051
 Red=Cloning site Green=Tags(s)

MAFPKKKLQGLVAATITPMTENGEINFSVIGQYVDYLVKEQGVKNIFVNGTTGEGLSLSVSERRQVAEEW
 VTKGDKLDQVIHVGALSLKESQELAQAHAEEIGADGIAVIAPFFLKPWTKDILINFLKEVAAAAPALPF
 YYYHIPALTGVKIRAEELLDGILDKIPTFQGLKFSDTDLLDFGQCVDQNRQQQFAFLFGVDEFICIQRFIN
 FVVKLENSKLVSKNQRTLPLGTTNFPFLH

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001200051

ORF Size: 720 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_001200051.2](#)

RefSeq Size: 1856 bp

RefSeq ORF: 723 bp

Locus ID: 80896

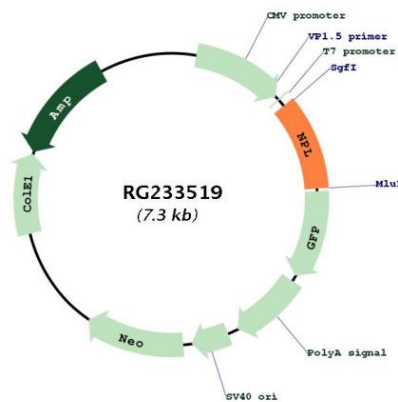
UniProt ID: [Q9BXD5](#)

Cytogenetics: 1q25.3

Protein Pathways: Amino sugar and nucleotide sugar metabolism

Gene Summary: This gene encodes a member of the N-acetylneuraminase lyase sub-family of (beta/alpha)(8)-barrel enzymes. N-acetylneuraminase lyases regulate cellular concentrations of N-acetylneuraminic acid (sialic acid) by mediating the reversible conversion of sialic acid into N-acetylmannosamine and pyruvate. A pseudogene of this gene is located on the short arm of chromosome 2. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Jan 2011]

Product images:



Circular map for RG233519