

Product datasheet for RC233642

NPL (NM_001200056) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NPL (NM_001200056) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NPL
Synonyms:	C1orf13; C112; NAL; NPL1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC233642 representing NM_001200056 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCTTCCCAAAGAAGAACTTCAGGGTCTTGTGGCTGCAACCATCACGCCAATGACTGAGAATGGAG
AAATCAACTTTTCAGTAATTGGTCAGTATGTGGATTATCTTGTGAAAGAACAGGGAGTGAAGAACATTTT
TGTGAATGGCACAACAGGAGAAGGCCTGTCCCTGAGCGTCTCAGAGCGTCGCCAGGTTGCAGAGGAGTGG
GTGACAAAAGGAAGGACAAGCTGGATCAGGTGATAATTCACGTAGGAGCACTGAGCTTGAAGGAGTCAC
AGGAAGTGGCCCAACATGCAGCAGAAATAGGAGCTGATGGCATCGCTGTCATTGCACCGTTCTTCCTCAA
GCCATGGACCAAAGATATCCTGATTAATTTCTAAAGGAAGTGGCTGCTGCCGCCCTGCCCTGCCATTT
TATTACTATCACATTCCTGCCTTGACAGGGTAAAGATTCTGTGCTGAGGAGTTGTTGGATGGGATTCGG
ATAAGATCCCCACCTTCCAAGGGCTGAAATTCAGTGATACAGATCTTTAGACTTCGGGCAATGTGTTGA
TCAGAATCGCCAGCAACAGTTTGCTTTCTTTTGGGGTGGATGAGCAACTGTTGAGTGCTCTGGTGATG
GGAGCAACTGGAGCAGTGGGCAGTACCTATAACTACCTGGGAAAAAGACAAACCAGATGTTGGAGGCTT
TTGAACAAAAGGACTTCTTTAGCCCTGAACTATCAGTTTTGTATCCAGAGATTTATCAACTTTGTTGT
CAAAGTAAAACTCAAAGTTTCAAAGAACCAAGGACTCTTCTCTGGGCACCACAAACTTC
CCCTTCCTCCAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC233642 representing NM_001200056
 Red=Cloning site Green=Tags(s)

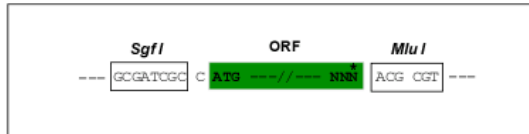
MAFPKKKLQGLVAATITPMTENGEINFSVIGQYVDYLVEKQGVKNIFVNGTTGEGLSLSVSERRQVAEEW
 VTKGDKLDQVI IHV GALSLKESQELAQHAAEIGADGIAVIAPFFLKPTKDILINFLKEVAAAAPALPF
 YYYHIPAL TGVIKIRAEELLDGILDKIPTFQGLKFS DTDLLDFGQCVDQNRQQQFAFLFGVDEQLLSALVM
 GATGAVGSTYNYLGKKTNQMLEAFEQKDFSLALNYQFCIQRF INFVVKLENSKLVSKNQRTLPLGTTNF
 PFLH

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_001200056

ORF Size: 852 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_001200056.2](#)

RefSeq Size: 1988 bp

RefSeq ORF: 855 bp

Locus ID: 80896

UniProt ID: [Q9BXD5](#)

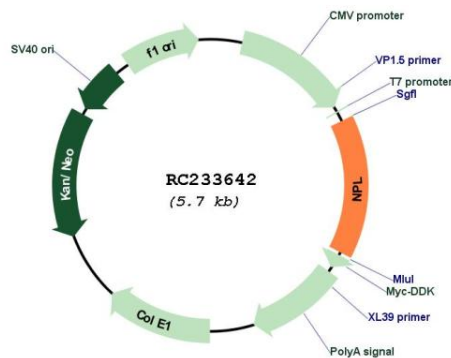
Cytogenetics: 1q25.3

Protein Pathways: Amino sugar and nucleotide sugar metabolism

MW: 32 kDa

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 RC233642