

Product datasheet for **RC232415**

NPL (NM_001200050) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: NPL (NM_001200050) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: NPL
Synonyms: C1orf13; C112; NAL; NPL1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC232415 representing NM_001200050
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGAGCAGGGCCCCGGGATCCTGGCTTCTGGAGAAGAGCCCCCTCCCTTTCTGTGCAGAAGGGCAGCC
AAACTGCTAGACACACCTGCCACCCAGAGGTTCCGCTGGGAACTGCTTCTTACCTGTCTACAAGCCAG
TCCCCTCACAGTTACCCGCTTTGGGCTGAAAGGCTGGATCAGGTGATAATTCACGTAGGAGCACTGAGC
TTGAAGGAGTCACAGGAAGTGGCCCAACATGCAGCAGAAATAGGAGCTGATGGCATCGCTGTCATTGCAC
CGTTCTTCTCAAGCCATGGACCAAGATATCCTGATTAATTTCTAAAGGAAGTGGCTGCTGCCGCCCC
TGCCCTGCCATTTTATTACTATCACATTCTGCCTTGACAGGGTAAAGATTCTGCTGAGGAGTTGTTG
GATGGGATTCTGGATAAGATCCCCACCTTCCAAGGGCTGAAATTCAGTGATACAGATCTCTTAGACTTCG
GGCAATGTGTTGATCAGAATCGCCAGCAACAGTTTGTCTTCTTTTGGGGTGGATGAGCAACTGTTGAG
TGCTCTGGTGATGGGAGCAACTGGAGCAGTGGGAGTACCTATAACTACCTGGGAAAAAGACAAACCAG
ATGTTGGAGGCTTTTGAACAAAAGGACTTCTCTTAGCCCTGAACTATCAGTTTTGTATCCAGAGATTTA
TCAAATTTGTTGTCAAACTAGGTTTTGGAGTGTACAGACCAAAGCCATCATGACTCTGGTCTCTGGGAT
TCCAATGGGCCACCCCGCTTCCACTGCAGAAAGCCTCCAGGGAGTTTACTGATAGTGTGAAGCTAAA
CTGAAGAGCCTGGATTTCTTTCTTCACTGATTTAAAGGATGGAACTTGAAGCTGGTAGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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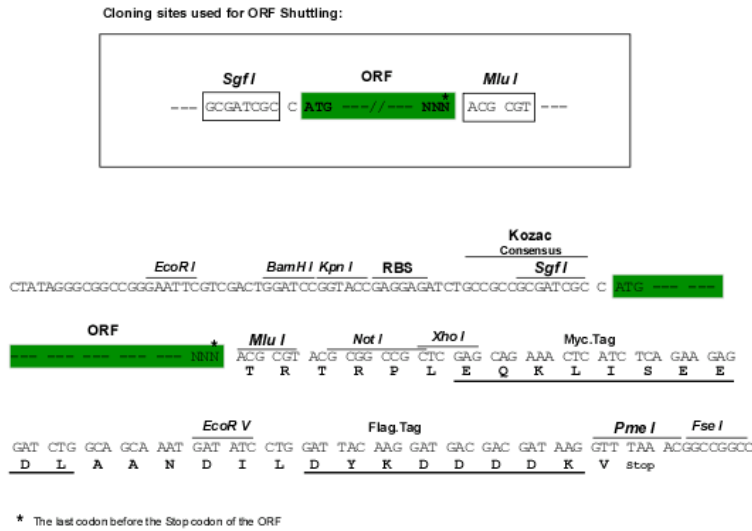
Protein Sequence: >RC232415 representing NM_001200050
 Red=Cloning site Green=Tags(s)

MSRAPGILASWRRAPSLSVQKGSQTARHTCHPEVPLGNCFLPVYKASPLTVTRLWAERLDQVIIHVGALS
 LKESQELAQHAAEIGADGIAVIAPFFLKPWTKDILINFLKEVAAAAPALPFYYYYHIPALTGVKIRAEELL
 DGILDKIPTFQGLKFSDDLLDFGQCVQNRQQQFAFLFGVDEQLLSALVMGATGAVGSTYNYLGGKKTNQ
 MLEAFEQKDFSLALNYQFCIQRFINFVVKLGFVGSQTKAIMTLVSGIPMGPPRLPLQKASREFTDSAEAK
 LKSLDFLSFTDLKDGNGLEAGS

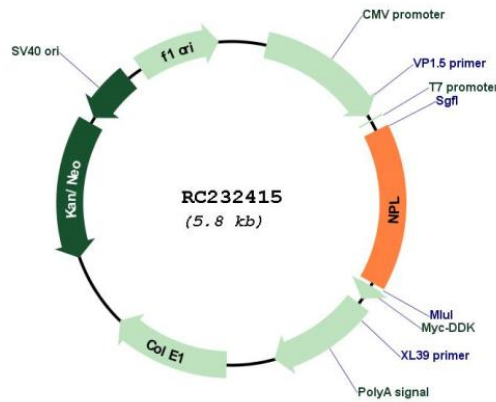
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001200050

ORF Size: 903 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_001200050.1 , NP_001186979.1
RefSeq Size:	3027 bp
RefSeq ORF:	906 bp
Locus ID:	80896
UniProt ID:	Q9BXD5
Cytogenetics:	1q25.3
Protein Pathways:	Amino sugar and nucleotide sugar metabolism
MW:	33.6 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]