

Product datasheet for SC109402

NPL (NM_030769) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NPL (NM_030769) Human Untagged Clone
Tag:	Tag Free
Symbol:	NPL
Synonyms:	C1orf13; C112; NAL; NPL1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC109402 sequence for NM_030769 edited (data generated by NextGen Sequencing)

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ATGGCCTTCCCAAGAAGAACTTCAGGGTCTTGTGGCTGCAACCATCACGCCAATGACT
GAGAATGGAGAAATCAACTTTTCAGTAATTGGTCAGTATGTGGATTATCTTGTGAAAGAA
CAGGGAGTGAAGAACATTTTTGTGAATGGCACAACAGGAGAAGGCCTGTCCCTGAGCGTC
TCAGAGCGTCGCCAGGTTGCAGAGGAGTGGGTGACAAAAGGGAAGGACAAGCTGGATCAG
GTGATAATTCACGTAGGAGCACTGAGCTTGAAGGAGTCACAGGAAGTGGCCCAACATGCA
GCAGAAATAGGAGCTGATGGCATCGCTGTCATTGCACCGTTCTTCCTCAAGCCATGGACC
AAAGATATCCTGATTAATTTCTAAAGGAAGTGGCTGCTGCCGCCCTGCCCTGCCATTT
TATTACTATCACATTCCTGCCTTGACAGGGGTAAGATTCGTGCTGAGGAGTTGTTGGAT
GGGATTCTGGATAAGATCCCCACCTTCCAAGGGCTGAAATTCAGTGATACAGATCTCTTA
GACTTCGGGCAATGTGTTGATCAGAATGCCAGCAACAGTTTGCTTTCTTTTTGGGGTG
GATGAGCAACTGTTGAGTCTCTGGTGATGGGAGCAACTGGAGCAGTGGGCACTACCTAT
AACTACCTGGGAAAAAGACAAACCAGATGTTGGAGGCTTTTGAACAAAAGGACTTCTCT
TTAGCCCTGAACTATCAGTTTTGTATCCAGAGATTTATCAACTTTGTTGTCAAATAGGT
TTTGGAGTGTCACAGACCAAGCCATCATGACTCTGGTCTCTGGGATTCCAATGGGCCCA
CCCCGGCTTCCACTGCAGAAAGCCTCCAGGGAGTTTACTGATAGTGCTGAAGCTAAACTG
AAGAGCCTGGATTTCTTTCTTTCACTGATTTAAAGGATGGAACTTGAAGCTGGTAGC
TAG

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Clone variation with respect to NM_030769.2



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_030769 unedited
 TAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCAAGAGCGGAGGCCTGGG
 TGAGCGCGGCCCGCGACGGCACGGGCTAGGACAGACGGACGCAGACGGCCCGACGACCTG
 GGCCTTCGGGCGGAGGGGCGCTGGGGCCTGACTCGCGGAAGGGGAAACTGAAGCAGAAAG
 AGGTTACTTAATGGGCTCAAGGTCACCTACCTGACCTACCAGCAGCTCAATGGCCTTCCC
 AAAGAAGAAACTTCAGGGTCTTGTGGCTGCAACCATCACGCCAATGACTGAGAATGGAGA
 AATCAACTTTTCAGTAATTGGTCAGTATGTGGATTATCTTGTGAAAGAACAGGGAGTGAA
 GAACATTTTTGTGAATGGCACAACAGGAGAAGGCTGTCCTGAGCGTCTCAGAGCGTCCG
 CCAGGTTGCAGAGGAGTGGGTGACAAAAGGGAACGACAAGCTGGATCAGGTGATAATTCA
 CGTAGGAGCACTGAGCTTGAACGAGCTACAGGAACTGGCCCAACATGCACCATAAATACG
 AGCTGATGGCATCGCTGTATTGCACCGTTCTTNTCCAGCCATGGACCAAAGATATCCT
 GCATAATTCCTAAAGGAACCGCTGCTGCCGCCCTTAACTGCCTTTATATTATTATAA
 CGTCCGTGCCCTTCGCCGCCCTACTGGCCCCCCCCCGCCCCCCCCCCCCCCCCCGAT
 CCAATACCCCGCCGTTGGCACCCTATACCATAACCCCCCCCGCCGCTTCCCCCTACC
 CTTGCTGAAAATTAATAACGGTANTACCCCCCCCCCCCATGTTGCCCGCCTCCGCCCC
 CACCACTATATCTCTGACCAACACCTATCCCCTCTCGCTTGCCCGGAAAGCACCTGCGT
 CGCCACACCACTCCACCCCCCTCCCGCCTCTGCTCTCTG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_030769 unedited
 TGACCGCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTCTTTTGAAAAATTT
 TATTTTTAATTCAAAAAGATTAATAAGGAGCAAACTGATATGAATTTCAAATACTCT
 TTCTCTGCCAATGATCAAAACAATTAGAGATGAAATGAAAACAAAATCTTAGTAATTA
 CAGACTGGATAGTCAAGTTTAAAGTCAGTAAGGGTTAACTGTCAATATACTTTGATATCA
 GAAAGCTTATATCAAGTTTGTAGAAGGAGATTAACAGTTGTTGATACATTACACAG
 AAAGAAAAGAGTAAAAGGAGGTATGGAGAGAAAGTTCTGAGTCCTTTGGTCTCCCCAA
 ATCTTCTATCACTAAACAAAAGTCACTAGTTGCAAGTGTGACAGGATAATAACATTAGCC
 CCTGGGCTCACTGCAGAAAGGAAGTCAGCCTTCGATTTCAATAATTCAGGGTCTGCGGG
 AGAGACAGTCTTCTCAGTGGAGGAAGGGGAAGTTGTGGTGCCCAGAGGAAGAGTCTTT
 GGTCTTTGAACTTTGAGTTTTGAGTTTTCTGTATAGAAAAAGTGGAGACTTAAATTC
 ATCTTTGGGGAAGACTTTTTCTTTGTTATGAGAAAGCCGCCCTTACTTAGTTATAGGA
 ACTGAAACAAGTCTCACCTGACCCAGTGTTTTTAAAGAGCGAAAAGTGGTGACATCGAA
 ATGAATTCAAAAGCATCCATTCTAGAGTTAGACTGAGCAGCCAAATGAGCTGGTGTATT
 TGAGTTGTATACAGTTGAGACATGTTACAGTTTGGTATTAAGTGCCTGCCTAAATGCAG
 TAGCTCAGAAAGTTTCTAGATTCCAATGAATTTATTNAAATGAGACATATATAGTGGG
 TTAATAATTANACACTTTNAAATAGGANAGGGACCC

Restriction Sites:

NotI-NotI

ACCN:

NM_030769

Insert Size:

2500 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_030769.1 , NP_110396.1
RefSeq Size:	1552 bp
RefSeq ORF:	963 bp
Locus ID:	80896
UniProt ID:	Q9BXD5
Cytogenetics:	1q25.3
Domains:	DHDPS
Protein Pathways:	Amino sugar and nucleotide sugar metabolism
Gene Summary:	<p>This gene encodes a member of the N-acetylneuraminate lyase sub-family of (beta/alpha)(8)-barrel enzymes. N-acetylneuraminate 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]</p> <p>Transcript Variant: This variant (1) encodes the longest isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>