

Product datasheet for **SC334644**

NPL (NM_001200052) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NPL (NM_001200052) Human Untagged Clone
Tag:	Tag Free
Symbol:	NPL
Synonyms:	C1orf13; C112; NAL; NPL1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001200052, the custom clone sequence may differ by one or more nucleotides

ATGGCCTTCCCAAAGAAGAACTTCAGGGTCTTGTGGCTGCAACCATCACGCCAATGACTGAGAATGGAG
 AAATCAACTTTTCAGTAATTGGTCAGTATGTGGATTATCTTGTGAAAGAACAGGGAGTGAAGAACATTTT
 TGTGAATGGCACAACAGGAGAAGGCCTGTCCCTGAGCGTCTCAGAGCGTCGCCAGGTTGCAGAGGAGTGG
 GTGACAAAAGGGAAGGACAAGCTGGATCAGGTGATAATTCACGTAGGAGCACTGAGCTTGAAGGAGTCAC
 AGGAATGGCCCAACATGCAGCAGAAATAGGAGCTGATGGCATCGCTGTCATTGCACCGTTCTTCCTCAA
 GCCATGGACCAAGATATCCTGATTAATTTCTAAAGGAAGTGGCTGCTGCCGCCCTGCCCTGCCATTT
 TATTACTATCACATTCTGCCTTGACAGGGGTAAAGATTCGTGCTGAGGAGTTGTTGGATGGGATTCTGG
 ATAAGATCCCCACCTTCCAAGGGCTGAAATTCAGTGATACAGATCTTTAGACTTCGGGCAATGTGTTGA
 TCAGAATCGCCAGCAACAGTTTGTCTTTCTTTTGGGGTGGATGAGCAACTGTTGAGTGCTCTGGTGATG
 GGAGCAACTGGAGCAGTGGGCAGTTTGTATCCAGAGATTATCAACTTTGTTGTCAAAC**TAG**

Restriction Sites:	Sgfl-MluI
ACCN:	NM_001200052
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).


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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_001200052.1](#), [NP_001186981.1](#)

RefSeq Size: 2782 bp

RefSeq ORF: 693 bp

Locus ID: 80896

Cytogenetics: 1q25.3

Protein Pathways: Amino sugar and nucleotide sugar metabolism

Gene Summary: 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]

Transcript Variant: This variant (5) lacks an exon in the 3' coding region, which results in a frameshift, compared to variant 1. The encoded isoform (5) is shorter and has a distinct C-terminus, compared to 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.