

Product datasheet for **SC113845**

NPL4 (NPLOC4) (NM_017921) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NPL4 (NPLOC4) (NM_017921) Human Untagged Clone
Tag:	Tag Free
Symbol:	NPL4
Synonyms:	NPL4
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC113845 sequence for NM_017921 edited (data generated by NextGen Sequencing)

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ATGGCCGAGAGCATCATAATTCGTGTCCAGTCCCCGGATGGAGTGAAGCGGATCACAGCA
ACAAAGAGAGAAACAGCAGCAACATTTTTGAAAAAGGTTGCAAAGGAGTTTGGCTTCCAA
AATAATGGCTTCTCGGTTTACATCAATAGAAACAAGACCGGAGAGATAACAGCCTCCTCC
AACAAATCCCTCAACTTGCTAAAAATCAAGCATGGCGATTTGTTGTTCTGTTTCCCTCG
AGCCTTGCTGGGCCCTCATCTGAAATGGAGACGTCAGTTCACCCGGGCTTCAAAGTCTTT
GGCGTCCCAACGTGGTGGAGGATGAGATTGATCAGTACCTCAGCAAACAGGACGGGAAG
ATTTACAGAAGCCGAGACCCACAGCTATGCCGCCACGGCCCTTTGGGAAATGCGTGCAC
TGCGTCCCTCTAGAGCCATTTCGATGAGGACTATCTAAACCATCTCGAGCCTCCCCTGAAG
CACATGTCCTTCCACGCCTACATCCGGAAGCTGACTGGAGGGGCTGACAAGGGGAAGTTT
GTTGCCCTGGAGAACATCAGCTGCAAGATTAAGTCAGGGTGCAGGGGCACCTCCCCTGG
CCGAATGGCATCTGTACTAAGTGCCAGCCGAGCGCCATCACGCTGAACAGACAGAAGTAC
AGGCATGTGGACAATATCATGTTTGAGAATCACACCGTCGCTGACCGCTTCTTGACTTC
TGGAGAAAAGACAGGGAACCAGCATTTTGGGTACTTATACGGACGGTACACGGAGCAGAAA
GACATTCCTTGGCATCAGGGCTGAAGTGGCTGCGATTTATGAGCCACCTCAGATTGGT
ACACAGAACAGCTTGGAGCTTCTTGAGGATCCAAAAGCTGAAGTGGTCGATGAAATTGCT
GCCAAACTTGGCTGCGGAAGGTTGGCTGGATATTTACAGACCTCGTCTCAGAAGATACC
CGAAAGGGTACCGTCCGTACAGTCGAAATAAGGACACCTATTTCCCTAAGTTCAGAAGAG
TGCATCACTGCAGGAGACTTCCAGAACAAGCATCCCAACATGTGCCGGCTCTCTCCAGAC
GGACATTTGGATCCAAGTTTGTACTGCAGTGGCTACAGGTGGTCCCTGACAACCAAGTC
CACTTTGAAGGGTACCAGGTGTCCAATCAGTGTATGGCACTGGTCCGTGATGAGTGTGG
CTGCCATGCAAGGACGCCCGGAGCTTGGCTACGCCAAGGAGTCTAGCAGTGAAGCAGTAC
GTCCCTGATGTGTTTTATAAGGACGTAGACAAGTTTGGCAACGAGATCACCCAGCTGGCC
CGGCCCTGCCTGTGGAGTATCTCATATAGACATCACAACAACCTTTCCCAAGGATCCA
GTTTACACTTTTTCTATTTTCGAAAAATCCATTTCTATTGAAAACCGGGATGATTGGGT
GAGACACAGGACTTCCATAGCTTGGCCACCTATTTGTCTCAGAATACCTCATCTGTGTTT
TTGGATACCATCTCAGATTTCCACCTCTTGCTGTTCTGGTCACCAATGAAGTTATGCCT
CTGCAGGACAGCATCAGCTTGTGCTGGAGGCCGTGCGGACCAGAAATGAGGAGCTCGCC
CAGACATGGAAGAGGTCTGAGCAGTGGGCCACCATCGAGCAGCTGTGCAGCACAGTTGGC
GGGCAGTCCCAGTCTCCATGAGTACGGCGCCGTGCGGGGCTCCACACACAGGCCACT
GCAGCCATGTGGGCTGTGAGCACTGCACGTTTCAATGAACCAGCCAGGCACAGGCCACTGC
GAGATGTGCAGCCTCCCCAGGACCTAG
```

Clone variation with respect to NM_017921.2
159 t=>c

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_017921 unedited
 GGAATTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGGGACGTCGG
 CGGCTGGCGGAGCCGGGCGGGCGAAGCTGGAGCGCGGTGGCGGCGCGTAGGGAGGCCG
 GGGCCGGGGCTGAGGCCCGCGCCGGTCTGCGAGGCCCTTGGGGCGGCAGGCGCGGGCG
 CCCGGGGCTCGAGCCCGAGGAGCAGGCCCATGGCCGAGAGCATCATAATTCGTG
 TCCAGTCCCCGGATGGAGTGAAGCGGATCACAGCAACAAAGAGAGAAAACAGCAGCAACAT
 TTTTGAAAAAGGTTGCAAAGGAGTTTGGCTTCCAAAATAATGGCTTCTCGGTTTACATCA
 ATAGAAAACAGACCGGAGAGATAACAGCCTCCTCCAACAAATCCCTCAACTTGCTAAAAA
 TCAAGCATGGCGATTTGTTGTTCTGTTTCCCTCGAGCCTTGTGGGCCCTCATCTGAAA
 TGGAGACGTCAGTTCCACCGGGCTTCAAAGTCTTTGGCGCTCCCAACGTGGTGGAGGATG
 AGATTGATCAGTACCTCAGCAAACAGGACGGGAAGATTTACAGAAGCCGAGACCCACAGC
 TATGCCGCCACGGCCCTTTGGGAAATGCGTGCCTGCGTCCCTCTAGAGCCATTCGATG
 AGGACTATCTAAACCATCTCGAGCCTCCCGTGAAGCACATGTCTTCCACGCCTACATCC
 GGAAGCTGACTGGAGGGCTGACAGGGGAAGTTTGTGCCCTGGAGACATCAGCTGCAAG
 ATAAGTCAGGGTTCGAGGGGCACCTCCCGTGGCCGAATGGCATCTGTACTAAGTGCCAGC
 CGAGCGCCATCACGCTGAACAGACAGAAGTACAGGCATGTGNACATATCATGTTTGAGA
 ATCACACCGT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_017921 unedited
 GGCCTGGGCGCAGGGGCTCACAGGCATGCCACCCGGGTATCTGTTGCAGGAAAACAGC
 TATGCACCGCGGCCCAATCTAAAAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
 TTACCATACTGTTATTA
 ACCAATGCAAATTTTAAATCCCCCTGGACATCGGGTAAAAAGAAGAGGGCAAGCACCA
 AACCCACCTGCAAACCTGCAAAAAGGGAACCGTGTCCAGGGCCACTGCCTCCCCCCCCAAA
 AACAGCTTCTAAAAAAGGGGGCCCCACAGGCAGGGGGCCCGCCCCAACCATTC
 AACAGGGGGTAACCAGGACCCCCCCCCAAAAAACCTGGGGCGGGGGGGCCAAACAA
 AAAGCCCTGAAAAAAGCGGGGGGGGGGCAAAATCGGCCCCCCCTGGGCC
 CCATTTCCAGGGCCACGTAAAGGCAAAAGTCTTCCAACCCGGGGGGGACTTGGCAA
 CAAGATTAGGCGTGAAGAGCCCTCTGCGTTTCCAGTCGGGAAACTGCTTTCACCCTGGA
 AAATACCAGCCGGGGCCCCCTCTCCAGGGAGGAACCCGCGAAAACCTTCCGGGGGGC
 AGGGACCCAAAAACCCCCCTTGTTCCTCCCGGGCTGCCCTTTGGGGGCTTTT
 CCAGGGAACACTCAACAACCTTTTGGTTTAAAGAAAGCGGGGCTGTGGCCCGTCC
 CTTCCGAAAAAGGCAGGCCCTTAGGCCGGGGGAGGCCCTCTCTCAATGGC
 CTGGGCCCGGTTAGTAA

Restriction Sites:

NotI-NotI

ACCN:

NM_017921

Insert Size:

2770 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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_017921.1](#), [NP_060391.1](#)

RefSeq Size: 4346 bp

RefSeq ORF: 1827 bp

Locus ID: 55666

UniProt ID: [Q8TAT6](#)

Cytogenetics: 17q25.3

Domains: zf-RanBP, zf-NPL4, NPL4

Gene Summary:

The ternary complex containing UFD1, VCP and NPLOC4 binds ubiquitinated proteins and is necessary for the export of misfolded proteins from the ER to the cytoplasm, where they are degraded by the proteasome. The NPLOC4-UFD1-VCP complex regulates spindle disassembly at the end of mitosis and is necessary for the formation of a closed nuclear envelope (By similarity). Acts as a negative regulator of type I interferon production via the complex formed with VCP and UFD1, which binds to DDX58/RIG-I and recruits RNF125 to promote ubiquitination and degradation of DDX58/RIG-I (PubMed:26471729).[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) encodes 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.