

Product datasheet for **RG214546**

NPL (NM_030769) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NPL (NM_030769) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NPL
Synonyms:	C1orf13; C112; NAL; NPL1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG214546 representing NM_030769 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**

ATGGCCTTCCCAAAGAAGAACTTCAGGGTCTTGTGGCTGCAACCATCACGCCAATGACTGAGAATGGAG
 AAATCAACTTTTCAGTAATTGGTCAGTATGTGGATTATCTTGTGAAAGAACAGGGAGTGAAGAACATTTT
 TGTGAATGGCACAACAGGAGAAGGCCTGTCCTGAGCGTCTCAGAGCGTCGCCAGGTTGCAGAGGAGTGG
 GTGACAAAAGGAAGGACAAGCTGGATCAGGTGATAATTCAGTAGGAGCACTGAGCTTGAAGGAGTCAC
 AGGAACTGGCCCAACATGCAGCAGAAATAGGAGCTGATGGCATCGCTGTCATTGCACCGTTCTTCCTCAA
 GCCATGGACCAAAGATATCCTGATTAATTTCTAAAGGAAGTGGCTGCTGCCGCCCTGCCCTGCCATTT
 TATTACTATCACATTCCTGCCTTGACAGGGGTAAAGATTCGTGCTGAGGAGTTGTTGGATGGGATTCTGG
 ATAAGATCCCCACCTTCCAAGGGCTGAAATTCAGTGATACAGATCTCTTAGACTTCGGGCAATGTGTTGA
 TCAGAATCGCCAGCAACAGTTTGCTTTCTTTTGGGGTGGATGAGCAACTGTTGAGTGCTCTGGTGATG
 GGAGCAACTGGAGCAGTGGGCAGTACCTATAACTACCTGGGAAAAAGACAAACCAGATGTTGGAGGCTT
 TTGAACAAAAGGACTTCTCTTTAGCCCTGAACATCAGTTTTGTATCCAGAGATTTATCACTTTGTTGT
 CAAACTAGGTTTTGGAGTGTCACAGACCAAGCCATCATGACTCTGGTCTCTGGGATTCCAATGGGCCCA
 CCCCAGGCTTCCACTGCAGAAAGCCTCCAGGGAGTTTACTGATAGTGCTGAAGCTAAACTGAAGAGCCTGG
 ATTTCTTTCTTCACTGATTTAAAGGATGGAACTTGAAGCTGGTAGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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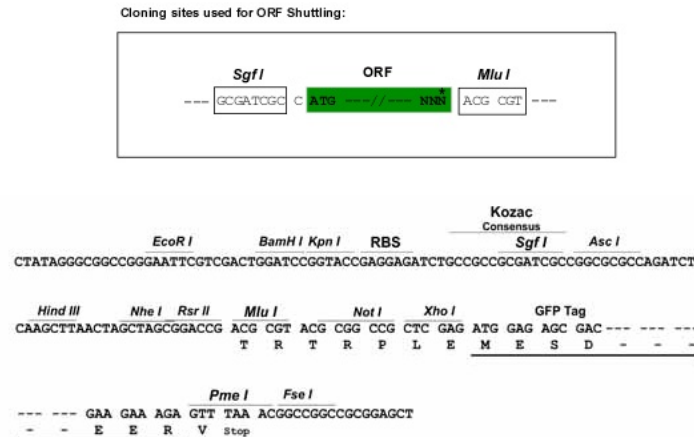
Protein Sequence: >RG214546 representing NM_030769
 Red=Cloning site Green=Tags(s)

MAFPKKKLQGLVAATITPMTENGEINFSVIGQYVDYLVEQGVKNIFVNGTTGEGLSLSVSERRQVAEEW
 VTKGDKLDQVIIHVGALSLKESQELAQAHAIEGADGIAVIAPFFLKPWTKDILINFLKEVAAAAPALPF
 YYYHIPALTGVKIRAEELLDGILDKIPTFQGLKFSDDLDFGQCVDQNRQQQFAFLFGVDEQLLSALVM
 GATGAVGSTYNYLGKKTNQMLEAFEQKDFSLALNYQFCIQRFINVVKLGFVGSQTKAIMTLVSGIPMGP
 PRLPLQKASREFTDSAEAKLKSLDFLSFTDLKDGNEAGS

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_030769

ORF Size: 960 bp

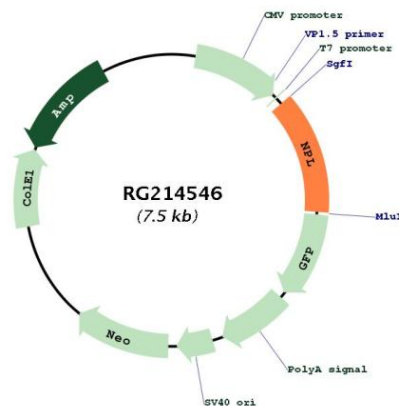
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_030769.2</u>
RefSeq Size:	1552 bp
RefSeq ORF:	963 bp
Locus ID:	80896
UniProt ID:	<u>Q9BXD5</u>
Cytogenetics:	1q25.3
Domains:	DHDPS
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]

Product images:



Circular map for RG214546