

Product datasheet for **RG236750**

NPL (NM_001200052) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NPL (NM_001200052) 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:	>RG236750 representing NM_001200052. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCCTCCCAAAGAAGAACTTCAGGGTCTTGTGGCTGCAACCATCACGCCAATGACTGAGAATGGA
GAAATCAACTTTTCAGTAATTGGTCAGTATGTGGATTATCTTGTGAAAGAACAGGGAGTGAAGAACATT
TTTGTGAATGGCACAACAGGAGAAGCCCTGTCCCTGAGCGTCTCAGAGCGTCGCCAGGTTGCAGAGGAG
TGGGTGACAAAAGGAAGGACAAGCTGGATCAGGTGATAATTCACGTAGGAGCACTGAGCTTGAAGGAG
TCACAGGAAGTGGCCCAACATGCAGCAGAAATAGGAGCTGATGGCATCGCTGTCATTGCACCGTTCTTC
CTCAAGCCATGGACCAAAGATATCCTGATTAATTTCTAAAGGAAGTGGCTGCTGCCGCCCTGCCCTG
CCATTTTATTACTATCACATTCCTGCCTTGACAGGGGTAAGATTTCGTGCTGAGGAGTTGTTGGATGGG
ATTCTGGATAAGATCCCCACCTTCCAAGGGCTGAAATTCAGTGATACAGATCTCTTAGACTTCGGGCAA
TGTGTTGATCAGAATCGCCAGCAACAGTTTGTCTTTCTTTTGGGGTGGATGAGCAACTGTTGAGTGCT
CTGGTGATGGGAGCAACTGGAGCAGTGGGCAGTTTTGTATCCAGAGATTTATCAACTTTGTTGTCAAAC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```



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Protein Sequence: >Peptide sequence encoded by RG236750
 Blue=ORF Red=Cloning site Green=Tag(s)

MAFPKKKLQGLVAATITPMTENGEINFSVIGQYVDYLVEKQGVKNIFVNGTTGEGLSLSVSERRQVAEE
 WVTGKGDKLDQVIIHVGALSLKESQELAQHAAEIGADGIAVIAPFFLKPWTKDILINFLKEVAAAAPAL
 PFYYYHIPALGVKIRAEELLDGILDKIPTFQGLKFSDTDLLDFGQCVDQNRQQQFAFLFGVDEQLLSA
 LVMGATGAVGSFVSRDLSTLLSN
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIKDFKVMGTGFPED
 SVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001200052

ORF Size: 690 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).

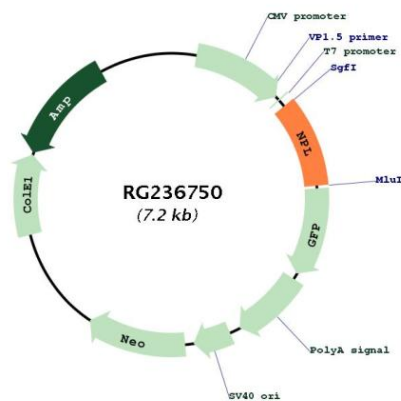
RefSeq: [NM_001200052.1](#), [NP_001186981.1](#)

RefSeq Size: 2782 bp

RefSeq ORF: 693 bp

Locus ID: 80896
Cytogenetics: 1q25.3
Protein Pathways: Amino sugar and nucleotide sugar metabolism
MW: 25.5 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]

Product images:



Circular map for RG236750