

Product datasheet for **RG232415**

NPL (NM_001200050) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NPL (NM_001200050) 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:	>RG232415 representing NM_001200050 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGCAGGGCCCCGGGATCCTGGCTTCTGGAGAAGAGCCCCCTCCCTTCTGTGCAGAAGGGCAGCC
AAACTGCTAGACACACCTGCCACCCAGAGGTTCCGCTGGGAACTGCTTCTTACCTGTCTACAAGGCCAG
TCCCTCACAGTTACCCGCTTTGGGCTGAAAGGCTGGATCAGGTGATAATTCACGTAGGAGCACTGAGC
TTGAAGGAGTACAGGAAGTGGCCCAACATGCAGCAGAAATAGGAGCTGATGGCATCGCTGTCATTGCAC
CGTTCTTCTCAAGCCATGGACCAAAGATATCCTGATTAATTTCTAAAGGAAGTGGCTGCTGCCGCCC
TGCCCTGCCATTTTATTACTATCACATTCTGCCTTGACAGGGTAAAGATTCGTGCTGAGGAGTTGTTG
GATGGGATTCTGGATAAGATCCCCACCTTCCAAGGGCTGAAATTCAGTGATACAGATCTCTTAGACTTCG
GGCAATGTGTTGATCAGAATCGCCAGCAACAGTTTGCTTTCTTTTGGGGTGGATGAGCAACTGTTGAG
TGCTCTGGTGATGGGAGCAACTGGAGCAGTGGGCAGTACCTATAACTACCTGGGAAAAAGACAAACCAG
ATGTTGGAGGCTTTTGAACAAAAGGACTTCTTTAGCCCTGAACTATCAGTTTTGTATCCAGAGATTTA
TCAACTTTGTTGTCAAAGTGGTGGAGTGTACAGACCAAAGCCATCATGACTCTGGTCTCTGGGAT
TCCAATGGGCCACCCCGGCTTCCACTGCAGAAAGCCTCCAGGGAGTTTACTGATAGTGTGAAGCTAAA
CTGAAGAGCCTGGATTTCTTTCTTCTACTGATTTAAAGGATGGAACTTGAAGCTGGTAGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG232415 representing NM_001200050
 Red=Cloning site Green=Tags(s)

MSRAPGILASWRRAPSLSVQKGSQTARHTCHPEVPLGNCFLPVYKASPLTVTRLWAERLDQVIIHVGALS
 LKESQELAQHAAEIGADGIAVIAPFFLKPWTKDILINFLKEVAAAAPALPFYYYYHIPALTGVKIRAEELL
 DGILDKIPTFQGLKFSDDLLDFGQCVQNRQQQFAFLFGVDEQLLSALVMGATGAVGSTYNYLGKKTNQ
 MLEAFEQKDFSLALNYQFCIQRFINLVVVLGFGVVSQTKAIMTLVSGIPMGPPRLPLQKASREFTDSAEAK
 LKSLDFLSFTDLKDGNGLEAGS

TRTRPLE - GFP Tag - V

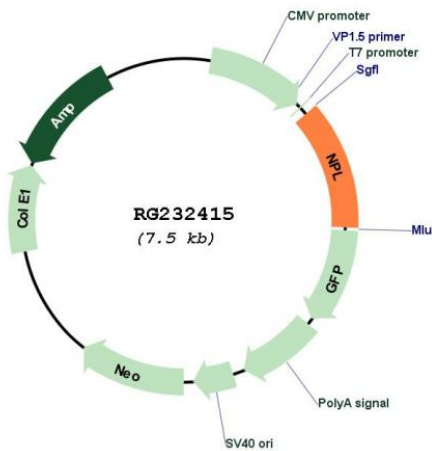
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_001200050

ORF Size: 903 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:	<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_001200050.1 , NP_001186979.1
RefSeq Size:	3027 bp
RefSeq ORF:	906 bp
Locus ID:	80896
UniProt ID:	Q9BXD5
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]