

Product datasheet for **RG216779**

NPIPL3 (NPIPB3) (NM_130464) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	NPIPL3
Synonyms:	KIAA0220L; NPIP; NPIPB; NPIPB5; NPIPL3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG216779 ORF sequence, **codon optimized**.
Due to the complexity of NM_130464, the ORF clone is codon optimized for mammalian Expression. The nucleotide sequence differs from the reference sequence, yet the amino acid sequence remains identical.

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGTGAAGCTCAGCATCGTGCTGACGCCCCAGTTCTGTGTCACACGACCAGGGCAACTGACGAAGGAAC
TGCAACAACATGTCAAGAGCGTGACATGTCCCTGCGAATACCTGCGGAAGGTCACTCAATACTTTGCCGA
CCATCATCACAGAGGAACAGACTTCGGCGGTAGTCCTTGGCTGCATGTGATTATAGCTTTCCCAACATCA
TACAAGGTCGTATCACGCTCTGGATCGTCTATCTGTGGGTTTCACTGCTGAAAACCATCTTCTGGTCCC
GCAACGGCCACGATGGTAGTACAGACGTGCAGCAACGGGCGTGGAAGTAACCGCGCCGCGCAGGAAGG
ACTCCGGAGCATCTGCATGCACACCAAGAAGAGGGTTAGTTCTTCAGAGGGAACAAGATAGGCCTTAAG
GATGTGATTACCTGCGGCGGCACGTGAGACTAAAGTTAGAGCGAAGATTGAAAGCGAAAAGTGACAA
CCAAGATTAACACCACGATAAAATCAACGGAAGCGGAAAACAGCCCGCAAGCAGAAAAATGTTTCAGAG
AGCTCAGGAGCTGCGGCGCAGAGCAGAGGACTACCACAAGTGCAAAATACCGCTTCTGCCCGCAAGGA
CTCTGTAATTGGGTAAGAATGGCAGCTGCTGAGCATAGACATAGTAGCGGCTCCCGTACTGGCCCTACC
TGACCGCCGAAACCCTCAAAAACCGAATGGGACACCAGCCTCCACCTCCACGCAACAGCATTCAATCAC
GGATAACAGTCTGTCCCTCAAGACACCCCGAGTGTCTGCTTACCCCTCTGCCACCATCAGCCGATGAT
AATCTTAAGACTCCTCCGAGTGTGTCTTGACACCTCTTCCCTCTCAGCCGATGATAACCTGAAAACCC
CTCCAGAGTGTGTCTCACCCTGCCCCCTCAGCAGACGACAACCTGAAGACGCGCCGAGAATGCCT
TCTGACTCCACTGCCGCTTCTGCCGATGATAACCTGAAAACACCCCTGAGTGCCTCTGACCCCACTG
CCCCCAGCGCCCTGCCAAGCGCTCCCCCTTCTGCTGATGACAATTGAAAACCCGAGCTGAGTGTCTGC
TTCATCCACTTCCCCATCAGCCGATGACAATTTGAAGACCCCTCTGAGAGGCAACTGACCCCTCC
TCCGTCGCTCCTCCATCCGCTGACGATAACATCAAAACGCCAGCCGAGCGCCTCCGGGGCCCCCTGCCA
CCTTCCGCGACGACAACCTTAAAACACCCTCAGAAAGGCGAGTGACCCCTGCCCCCTCTGCTCCCC
CCTCCGCGATGATAACATCAAAACACCAGCAGAAAGACTGCGCGGACCCCTGCCCCCAAGCGCTGATGA
CAATCTGAAAACCTCCTCCGAGAGACAGTGACCCCTCTTCCCCCAGCGCCCCCAAGCGCTGACGAC
AATATTAAGACCCCTGCCGAACGACTCCGGGGGCACTGCCCCCTCTGCCGATGATAACCTGAAAACCTC
CCTCCGAGCGCGAGTGACCCCTTCCCGCGAGCGCACCTCCATCAGCCGATGACAATATTAACACACC
AGCTGAGCGCTGCGCGGACCTCTCCCTCCGTCTGCCGACGATAACTTGAAAACCCACCCCTGGCGACC
CAGGAGGCCGAGGCTGAAAAACCAAGAAAACCAACGCCAGAGAGCCGCGGAAATGGAACCGCCACCCG
AGCCAAAGCGGAGACGAGTCCGGCGACGTAGAACCCTTCTCGCAAGCCAAAAGAGGCGCGCGCGGATGT
GGAACCATCATCCCGGAACCAACCGGAGGAGAGTTGGAGATGTTGAACCATCCAGAAAGCCAAAGAGA
CGAAGGGCTGCCGATGTCGAGCTAGTCCCCGAGCCAAACGGAGGCGCGTAGGCGATGTTGAACCAT
CCCGCAAGCCTAACGGCGACGAGCCGCGACGTCGAACCCAGTCTGCCAGAGCCAAACGGCGGAGACT
GTCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

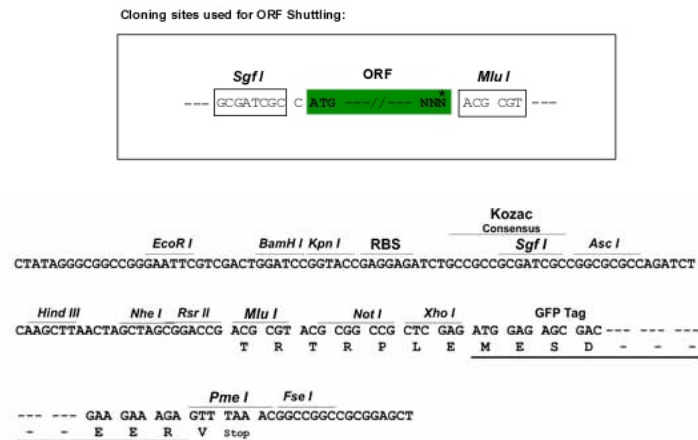
Protein Sequence: >RG216779 representing NM_130464
Red=Cloning site Green=Tags(s)

MVLSIVLTPQFLSHDQQLTKELQQHVKSVTCPCEYLKRVINTLADHHHRGTDGFGSPWLHVIIAFPTS
YKVVITLWIVYLWVSLKTIWRSRNGHDGSTDVQQRARWSNRRRQEGRLSICMHTKKRVSSFRGNKIGLK
DVITLRRHVETKVRKIRKRVTTKINHDKINGKRKTARKQKMFQRAQLRRRAEDYHKCKIPPSARKA
LCNVWRMAAAEHRHSSGLPYWPLYTAETLKNRMGHQPPPTQQHSITDNLSLKTPPECLLTPLPPSADD
NLKTPPECVLTPPLPSADDNLKTPPECVLTPPLPSADDNLKTPPECLLTPLPPSADDNLKTPPECLLTPL
PPSALPSAPPSADDNLKTRAECLLHPLPSADDNLKTPSERQLTPPLPSAPPSADDNIKTPAERLRGGLP
PSADDNLKTPSERQLTPPLPSAPPSADDNIKTPAERLRGGLPPSADDNLKTPSERQLTPPLPSAPPSADD
NIKTPAERLRGGLPPSADDNLKTPSERQLTPPLPSAPPSADDNIKTPAERLRGGLPPSADDNLKTPPLAT
QEAEAEKPKRQRAAEMEPPEPKRRRVGDVEPSRKPKRRRAADVEPSSPEPKRRRVGDVEPSRKPKR
RRAADVEPSSPEPKRRRVGDVEPSRKPKRRRAADVEPSLPEPKRRRLS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_130464

ORF Size: 2034 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: NM_130464.1, NP_569731.1

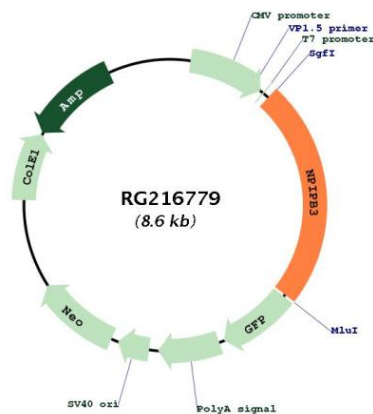
RefSeq Size: 3691 bp

RefSeq ORF: 3402 bp

Locus ID: 23117

Cytogenetics: 16p12.2

Product images:



Circular map for RG216779