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Product datasheet for MG215746

Nlrp14 (NM_001002894) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Tag: TurboGFP

Symbol: Nlrp14

Synonyms: 4921520L01Rik; GC-LRR; Nalp-iota; Nalp14; Nalp14l

Mammalian Cell Selection: Neomycin

Vector: pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>MG215746 representing NM_001002894, codon optimized.
Due to the complexity of NM_001002894, 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)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAAGACTGAGGATGATGAGATGGAATACGAAGCTTCTAAAGAGGAAACCGTGAGTGAGGACAAAGACT
TTGATGATGGAATAGACTACAGAACTGTAATAAAGGAAAACATTTTTACTATGTGGTATAAGACCTCTTT
GCATGGAGAATTTGCAACTTTAAATTGTGTAATTACACCTAAAGACCAAAATCTGCTGCAGCATATATTT
GATGAGGATATCCAAACTTCCGAGGCTCCACAAACGGTAGTCCTTCAAGGAGCTGCTGGAATTGGGAAGA
CAACATTGTTGAAAAAGGCAGTCTTAGAATGGGCAGATGGCAATCTCTATCAGCAGTTTACCCATGTATT
TTATCTCAATGGGAAAGAGATTAGCCAAGTAAAGGAGAAAAGCTTTGCTCAGTTAATATCAAAGCACTGG
CCTAGCAGCGAGGGCCCCATTGAACAGGTCCTGTCTAAACCCAGCAGTCTCCTCTTTATAATCGATAGTT
TTGATGAACTGGATTTCTCCTTTGAAGAGCCACAGTTTGCACTGTGTAAAGACTGGACCCAGATCTCCCC
AGTGTCTTTTCTCATTAGTAGTTTGCTGAGGAAAGTGATGCTTCCTGAGTCCTACTTATTAGTAGCGACA
AGATCCACAGCTTGGAAGCGACTAGTGCCTTTATTGCAAAAACCTCAACGTGTAAAGCTGTCAGGGCTGT
CTAAGAATGCAAGGATGGACTATATTCACCATTTGTTGAAAGATAAGGCATGGGCTACGAGTGCAATTTA
TTCACTAAGAATGAATTGGAGGCTTTTCCACATGTGCCACGTGTGCCACATGTGCCAGATGATCTGTGCT
GTTCTCAAGGGACAAGTGGAGAAAGGTGGCCGTGTTGAAGAGACCTGCAAAACCAGCACGGCTCTGTTCA
CATACTATATCTGCAGCTTATTTCCACGCATACCTGTGGGCTGTGTTACTCTGCCCAATGAAACCCTGTT
GAGGAGCCTGTGCAAGGCTGCTGTTGAAGGCATCTGGACAATGAAGCATGTGCTTTACCAGCAAAATCTC
CGAAAGCATGAATTAACCAGAGAGGACATTTTGCTTTTCCTGGATGCAAAGGTTCTTCAGCAAGACACTG
AGTATGAAAACTGCTACATGTTCACTCACCTCCATGTTCAGGAGTTTTTTGCAGCTCTTTTTTACTTGCT

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GAGAGAGAATTTAGAAGAACAAGACTATCCCTCTGAACCTTTTGAAAACTTGTATCTGTTGCTTGAAAGC
AACCACATTCATGACCCTCATTTGGAACAGATGAAATGCTTTTTGTTTGGTCTACTAAATAAAGACAGAG
TACGACAACTGGAGGAAACTTTCAACCTTACAATATCCATGGAGGTAAGAGAAGAGTTACTTGCATGTCT
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TGCTAGGGCAGATCTCAAGAATATGCTTGACACCGCCGAGATGTGCCTTGAAGGGGCAGCTGTTCAGGTG
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AGTCCCGCCTGGACGAAAGCCTGATGAAAATACTTAATGAGGAGCTCAGCCATCCGAAATGTAAGTTGCA
GAAACTTATTTTTCGGGCCGTGGACTTCCTGAATGGCTGTCAGGACTTTACCTTTCTGGCCAGCAACAAA
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TGAAGTGCAAGGGATGTAAGCTTCGAGTTTTGCGCCTGGCTTCATGTGACCTGAACGTAGCCAGGTGCCA
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AATGATGGCGTCAAATCTCTGTGCGAGGTCTTGGAAAATCCGAATAGCTCCCTTGAGCGCCTGGCTCTGG
CTTCTTGCGGTCTCACTAAGGCAGGCTGTAAGGTGCTGAGCTCTGCCCTCACTAAGTCTAAGAGACTGAC
ACACTTGTGCCTGTCTGACAACGTTCTTGAAGACGAGGGGATAAAACTCCTGTCCCATACACTCAAGCAT
CCCCAGTGCACACTGCAGAGCTTGGTGCTGCGGTCCTGCAGCTTTACCCCCATTGGCAGCGAACACCTGT
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CCACGTTCAGAGGCTGGGCCTCGAAAACTGTGGCCTGACACCAGGGTGCTGCCAGGATCTGTTGGGGATT
CTGTCCAACAACAAATCTGTGATCCAGATGAACCTCATGAAGAATGCACTTGACCACGAGAGTATTAAAA
ATCTCTGCAAGGTGTTGAGAAGTCCTACTTGCAAAATGGAGTTTCTGGCACTGGATAAAAAGGAGATCCT
GAAGAAGAAAATCAAGAAGTTCCTGGTTGATGTGCGCATCAACAACCCGCACCTGGTAATCGGGCCAGAA
TGTCCCAACACAGAAAGCGGATGTTGGTGGAATTACTTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

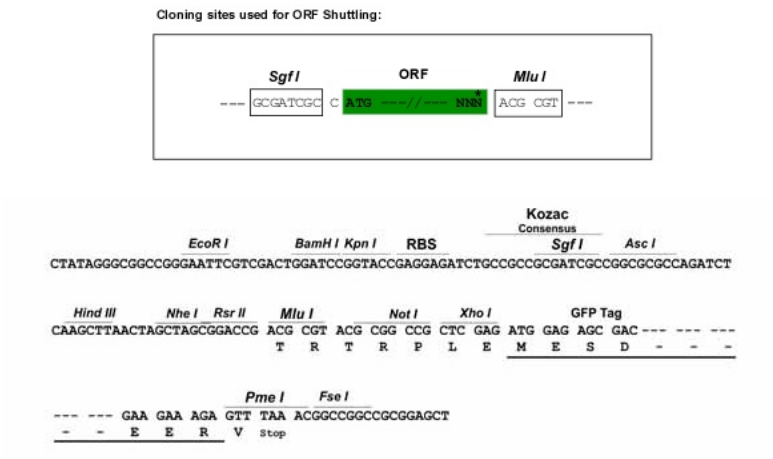
>MG215746 representing NM_001002894
Red=Cloning site Green=Tags(s)

MKTEDDEMEYEASKEETVSEDKDFDDGIDYRTVIKENIFTMWYKTSLHGEFATLNCVITPKDQNLLQHIF
DEDIQTSEAPQTVVLQGAAGIGKTTLLKKAVLEWADGNLYQQFTHVFYLNGKEISQVKEKSFAQLISKHW
PSSEGPIEQVLSKPSSLLFIIDSFDELDFSFEEPQFALCKDWTQISPVSFLISSLLRKVMLPESYLLVAT
RSTAWKRLVPLLQKPQRVKLSGLSKNARMDYIHHLLKDKAWATSAIYSLRMNWRLFHMCHVCHMCQMICA
VLKGQVEKGGRVEETCKTSTALFTYYICSLFPRIPVGCVTLPNETLLRSLCKAAVEGIWTMKHVLYQQNL
RKHELTREDILLFLDAKVLQQDTEYENCYMFTHLHVQEFFAALFYLLRENLEEQDYPSEPFENLYLLLES
NHIHDPHLEQMKCFLFGLLNKDRVRQLEETFNLTISMEVREELLACLEGLEKDDSSLSQLRFQDLLHCIY
ETQDQEFITQALMYFQKIIVRVDEEPQLRIYSFCLKHCHTLKTMRLTARADLKNMLDTAEMCLEGAAVQV
IHYWQDLFSVLHTNESLIEMDLYESRLDESLMKILNEELSHPKCKLQKLIFRAVDFLNGCQDFTFLASNK
KVTHLDLKETDLGVNGLKTLCEALKCKGCKLRVLRLASCDLNVARCQKLSNALQTNRSLVFLNLSLNNLS
NDGVKSLCEVLENPNSSLERLALASCGLTKAGCKVLSSALTKSKRLTHLCLSDNVLEDEGIKLLSHTLKH
PQCTLQSLVLRSCSFTPIGSEHLSTALLHNRSLVHLDLGQNKLADNGVKLLCHSLQQPHCNLQELELMSC
VLTSKACGDLASVLVNNSNLWSLDLGHNILDDAGLNILCDALRNPNCHVQRLGLENCGLTPGCCQDLLGI
LSNNKSVIQMNLMKNALDHESIKNLCKVLRSPTCKMEFLALDKKEILKKKIKKFLVDVRINNPHLVIGPE
CPNTESGCWWNYF

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001002894

ORF Size: 2979 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.

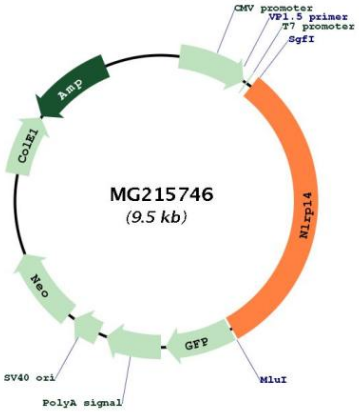
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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_001002894.2, NP_001002894.2
RefSeq Size:	3297 bp
RefSeq ORF:	2982 bp
Locus ID:	76858
UniProt ID:	Q6B966
Cytogenetics:	7 E3
Gene Summary:	May be involved in inflammation and spermatogenesis.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG215746