

## Product datasheet for **RG218775**

### **NLRP8 (NM\_176811) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	NLRP8 (NM_176811) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NLRP8
Synonyms:	CLR19.2; NALP8; NOD16; PAN4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG218775 representing NM_176811 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGTGACGTGAATCCACCCTCTGACACCCCCATTCCCTTTTCATCCTCCTCCACTCACAGTTCTCATA  
TTCCGCCCTGGACATTCTTGTACTCCCGGCTCCCCATGTGAAAATGGGGTCATGCTGTACATGAGAAA  
CGTGAGCCATGAGGAGCTACAACGGTTCAAGCAGCTCTTACTGACTGAGCTCAGTACTGGCACCATGCC  
ATCACCTGGGACCAGGTCGAGACAGCCAGCTGGGCAGAGGTGGTTCATCTCTTGATAGAGCGTTCCCTG  
GACGACCGCTTGGGATGTGACTTCGAACATCTTTGCCATTATGAACTGTGATAAAATGTGTGTTGTAGT  
CCGAGAGAGATAAATGCCATTCTGCCTACCTTGGAAACCAGAGGACTTGAATGTGGGAGAAAACACAGGTG  
AATCTGGAGGAAGGAGAATCTGGTAAAAATACGGCGGTATAAATCGAATGTGATGGAAAAGTTTTCCCCA  
TATGGGACATTACGACTTGGCCTGGAAACCAGAGGGACTTCTTCTACCAAGGTGTACACAGGCACAGGGA  
GTACTTACCATGTCTGCTTCTGCCAAAAGACCCAGGGTAGACAGCCAAAGACCGTGGCCATACAGGGA  
GCTCCTGGGATCGGAAAAACAATCCTGGCCAAAAGGTGATGTTTGAGTGGGCCAGAAAACAAGTTCTACG  
CCCACAAGCGCTGGTGTGCTTTCTACTTCCATTGCCAAGAGGTGAACCAGACGACAGACCAGAGCTTCTC  
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AGTATTCTTCGGAGAATTGCAGGTGAGGAAGACCACTATGTCTTTACCCTCGTGACTTTTCAGGAATTTT
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CCTGGAGCTGAAAAGTCCCTGTTACCTCCATCTGCTGCCAGGCCATGGCTTCCATGCTCCGAAAAAC
CAACATCTGAGACATCTGACTTGAGCAAGAATGCGATTGGAGTCTATGGTATTCTGACCTGTGCGGAGG
CCTTCTCAAGCCAAAAGAAGAGAGAAGAGTCAATTTCTGTATTCTGCTGGACTCGAATAACTGACTT
CTCCCCAACTCCTACCCACCCGACTTACGGGAAAAAGTACTGCCTATCCCAGATTAATCT
    
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ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG218775 representing NM\_176811  
 Red=Cloning site Green=Tags(s)

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MSDVNPPSDTPIPFSSSTHSSHIPPWTFSCYPGSPCENGVMLYMRNVSHEELQRFKQLLLTELSTGTMP
ITWDQVETASWAEVHLLIERFPGRRWDVTSNIFAIMNCDKMCVVVREINAILPTLEPEDLNGETQV
NLEEGESGKIRRYKSNVMEKFFPIWDITWPGNRDFFYQGVHRHEEYLPCLLLPKRPQGRQPKTVAIQG
APGIGKTIKAKVMFEWARNKFYAHKRWCAFYFHCQEVNQTDDQSFSELIEQKWPGSQDLVSKIMSKPDQ
LLLLLDGFEELSTLIDRLEDLSEDWRQKLPGSVLLSLLSKTMLPEATLLIMIRFTSWQTKPLLKPCS
LVTLPGFNTMEKIKYFQMYFGHTEEGDQVLSFAMENTILFSMCRVPVVCWVMVCSGLKQQMERGNLQSC
PNATSVFVRYISSLPTRAENFSRKIHQAQLEGLCHLAADSMWHRKWVLGKEDLEEAKLDQTVTAFLGM
SILRRIAGEEDHYVFTLVTFQEFAALFYVLCFPQRLKNFHVLSHVNIQRLIASPRGSKSYLSHMGLFLF
GFLNEACASAVEQSFQCKVSFGNKRLLKVIPLLHKCDPPSPGSGVPQLFYCLHEIREEAFVSQALNDYH
KVVLIRIGNNKEVQSAFCLKRQCYLHEVELTVTLNFMNVWKLSSSSHPGSEAPESNGLHRWQDLCSVFA
TNDKLEVLMTNSVLGPPFLKALAAALRHPQCKLQKLLLRVNSTMLNQDLIGVL TGNQHLRYLEIQHVE
VESKAVKLLCRVLRSPRCRLQCLRLEDCLATPRIWTDLGNLQGNHGLKTLILRKNLENCGAYYLSVAQ
LERLSIENCNLQLTCESLASCLRQSKMLTHLSLAENALKDEGAKHIWNALPHLRCPQLRVLKCDLTF
NCCQDMISALCKNKTLSLDL SFNSLKDDGVILLCEALKNPDCTLQILELENCLFTSICQAMASMLRKN
QHLRHLDSLKNAIGVYGILTLCEAFSSQKKREEVIFCIPAWTRITSFSPTPHPPDFTGKSDCLSQINP
    
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TRTRPLE - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI



<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_176811.2</a> , <a href="#">NP_789781.2</a>
<b>RefSeq Size:</b>	3934 bp
<b>RefSeq ORF:</b>	3147 bp
<b>Locus ID:</b>	126205
<b>UniProt ID:</b>	<a href="#">Q86W28</a>
<b>Cytogenetics:</b>	19q13.43
<b>Gene Summary:</b>	This gene encodes a member of the nucleotide-binding oligomerization domain/ leucine rich repeat/ pyrin domain containing (NLRP) subfamily, which belongs to the Nod-like receptor family of proteins. NLRP genes play roles in the mammalian innate immune system through inflammasome formation and activation of caspases. In addition, NLRP genes have been found to function during mammalian reproduction. Consistent with a function during human preimplantation development, this gene is expressed at high levels in oocytes with decreased levels in embryos. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2016]