

## Product datasheet for **RG211816**

### **IL1RAPL1 (NM\_014271) Human Tagged ORF Clone**

#### **Product data:**

|                           |                                                                                          |
|---------------------------|------------------------------------------------------------------------------------------|
| Product Type:             | Expression Plasmids                                                                      |
| Product Name:             | IL1RAPL1 (NM_014271) Human Tagged ORF Clone                                              |
| Tag:                      | TurboGFP                                                                                 |
| Symbol:                   | IL1RAPL1                                                                                 |
| Synonyms:                 | IL-1-RAPL-1; IL-1RAPL-1; IL1R8; IL1RAPL; IL1RAPL-1; MRX10; MRX21; MRX34; OPHN4; TIGIRR-2 |
| Mammalian Cell Selection: | Neomycin                                                                                 |
| Vector:                   | pCMV6-AC-GFP (PS100010)                                                                  |
| E. coli Selection:        | Ampicillin (100 ug/mL)                                                                   |



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**ORF Nucleotide  
Sequence:**

>RG211816 representing NM\_014271  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAAAGCTCCGATTCCACACTTGATTCTTATACGCTACTTTTACTCAGAGTTTGAAGTTGTGACCA  
 AAAGAGGCTCCGCCGATGGATGCACTGACTGGTCTATCGATATCAAGAAATATCAAGTTTGGTGGGAGA  
 GCCTGTTCTGAATCAAATGTGCACTCTTTTATGGTTATATCAGAACAAATTAATCCCTTGCCCAAAGTGCT  
 GGACTCAGTTTGATGTGGTACAAAAGTTCTGGTCTGGAGACTTTGAAGAGCCAATAGCCTTTGACGGAA  
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 CAGCCCTCTGACTGATAAGCCACCCAAGCTTTGTATCCTATGGAAGTAAACTGACAATTCAGGAGAC  
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 GAATTCCTTAAGGAGCATCTTGGGAACAGGAAGTTCCATCTCATTAAATGTGGACTCTGTGGAAGAAGG  
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 GCTCGATGGAGACAATAAGATTATGATGCATACTTATCATACACCAAAGTGGATCCTGACCAAGTGAAT  
 CAAGAGACTGGGGAAGAAGAACGTTTTGCCCTTGAAATCCTACCTGATATGCTTGAAAAGCATTATGGAT  
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 AACTGAGAGGAATTATGAACTACCAGGAGGTGGAGGCCCTGAAGCACACCATCAAGCTCCTGACGGTCAT  
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 TTTAAGAGGATAGAACCATTACACATGAGCAGGCTTTAGATGTCAGTGAGCAAGGGCCTTTTGGGAGC  
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 CCGTTCTACCTTTCAACACAGTACCATTACAAAATGCGTCAGAAACACTACTACCGAAGCTATGAGTAC  
 GACGTACCTCCTACCGGCACCCTGCCTCTTACCTCCATAGGCAATCAGCATACCTACTGTAACATCCCTA  
 TGACACTCATCAACGGGAGCGGCCACAGACAAAATCGAGCAGGGAGCAGAATCCAGATGAGGCCACAC  
 AAACAGTGCCATCCTGCCGCTGTTGCCAAGGGAGACCAGTATATCCAGTGTGATATGG

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:** >RG211816 representing NM\_014271  
 Red=Cloning site Green=Tags(s)

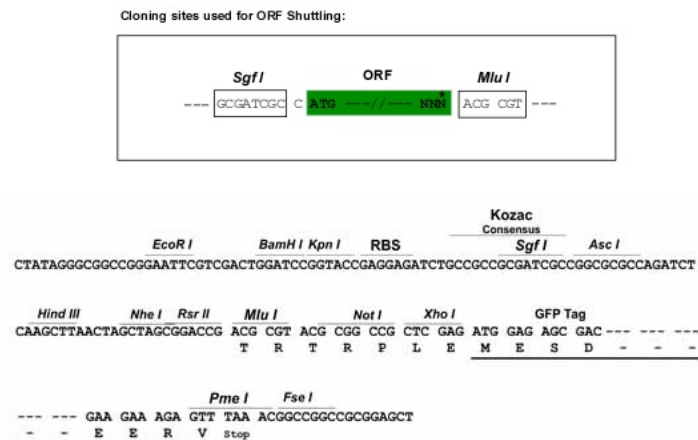
MKAPIPHLILLYATFTQSLKVVTKRGSADGCTDWSIDIKKYQVLVGEVRIKCALFYGYIRTNYSLAQSA  
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 GLCYNYSKMYFEKAELSKSKEISCRDIEDFLPTREPEILWYKECRTKTWRPSIVFKRDTLLIREVREDD  
 IGNYTCELKYGGFVVRRTTELTVTAPLTDKPPKLLYPMESKLTIQETQLGDSANLTCRAFFGYSGDV SPL  
 IYWMKGEKFIEDLDENRVWESDIRILKEHLGEQEVSVISLIVDSVEEGDLGNYSYVENGNGRRHASVLLH  
 KRELMYTVELAGGLGAILLLLVLVTIYKYKIEIMLFYRNHFGAEELDGNKDYDAYLSYTKVDPDQWN  
 QETGEEERFALEILPDMLEKHYGYKLFIPDRDLIPTGTIYIEDVARCVDQSKRLIIVMTPNYVVRGWSIF  
 ELETRLNMLVTGEIKVILIECSELRGIMNYQEVEALKHTIKLLTVIKWHGPKCNKLSKFWKRLQYEMP  
 FKRIEPI THEQALDVSEQGPFGELQTVSAISMAAATSTALATAHPDLRSTFHNTYHSQMRQKHYYRSY EY  
 DVPPTGTLPLTSIGNQHTYCNIPMTLINGQRPQT KSSREQNPDEAHTNSAILPLLPRETSISSVIW

TRTRPLE - GFP Tag - V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_014271

**ORF Size:** 2088 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\\_014271.4](#)

**RefSeq Size:** 3624 bp

**RefSeq ORF:** 2091 bp

**Locus ID:** 11141

**UniProt ID:** [Q9NZN1](#)

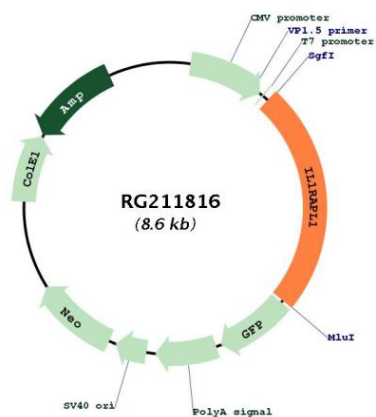
**Cytogenetics:** Xp21.3-p21.2

**Domains:** TIR, ig, IGc2, IG

**Protein Families:** Druggable Genome, Transmembrane

**Gene Summary:** The protein encoded by this gene is a member of the interleukin 1 receptor family and is similar to the interleukin 1 accessory proteins. This protein has an N-terminal signal peptide, three extracellular immunoglobulin Ig-like domains, a transmembrane domain, an intracellular Toll/IL-1R domain, and a long C-terminal tail which interacts with multiple signalling molecules. This gene is located at a region on chromosome X that is associated with a non-syndromic form of X-linked intellectual disability. Deletions and mutations in this gene were found in patients with intellectual disability. This gene is expressed at a high level in post-natal brain structures involved in the hippocampal memory system, which suggests a specialized role in the physiological processes underlying memory and learning abilities, and plays a role in synapse formation and stabilization. [provided by RefSeq, Jul 2017]

## Product images:



Circular map for RG211816