

## Product datasheet for **MG227098**

### **Il1r1 (NM\_001025602) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Il1r1 (NM_001025602) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Il1r1
Synonyms:	DER4; Fit-1; Ly84; St2; St2-rs1; ST2L; T1; T1/ST2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG227098 representing NM\_001025602  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGATTGACAGACAGAGAATGGGACTTTGGGCTTTGGCAATTCTGACACTTCCCATGATTTGACAGTTA  
 CGGAGGGCAGTAAATCGTCTGGGTCTGGAAAATGAGGCTTTAATTGTGAGATGCCCCAAAGAGGACG  
 CTCGACTTATCCTGTGGAATGGTATTACTCAGATACAAAATGAAAGTATTCTACTCAAAAAAGAAATCGG  
 ATCTTTGTCTCAAGAGATCGTCTGAAGTTTCTACCAGCCAGAGTGAAGACTCTGGGATTTATGCTTGTG  
 TTATCAGAAGCCCAACTGAATAAGACTGGATACTTGAATGTCACCATACATAAAAAGCCGCCAAGCTG  
 CAATATCCCTGATTATTTGATGTACTCGACAGTACGTGGATCAGATAAAAATTTCAAGATAACGTGTCCA  
 ACAATTGACCTGTATAATTGGACAGCACCTGTTCACTGAGTTAAGAACTGCAAAGCTCTCCAAGAGCCAA  
 GGTTCCAGGCACACAGGTCCTACTTGTTCATTGACAACGTGACTCATGATGATGAAGGTGACTACACTTG  
 TCAATTCACACACGCGGAGAATGGAACCAACTACATCGTGACGGCCACCAGATCATTACAGTTGAAGAA  
 AAAGGCTTTTCTATGTTTCCAGTAATTACAAATCTCCATACAACCACACAATGGAAGTGAAAATAGGAA  
 AACCAGCAAGTATTGCCTGTTCACTGCTTTGGCAAAGGCTCTCACTTCTTGGCTGATGCTCTGTGGCA  
 GATTAACAAAACAGTAGTTGAAAATTTGGTGAAGCAAGAATTCAGAAGAGGAAGGTGCGAAATGAAAGT  
 TCCAGCAATGACATGGATTGTTTAACTCAGTGTAAAGGATAACTGGTGTGACAGAAAAGGACCTGTCCC  
 TGGAATATGACTGTCTGGCCCTGAACCTTCATGGCATGATAAGGCACACCATAAGGCTGAGAAGGAAACA  
 ACCAATTGATCACCGAAGCATCTACTACATAGTTGCTGGATGATGTTTATTGCTAATGTTTATCAATGTC  
 TTGGTGATAGTCTTAAAAGTGTCTGGATTGAGTTGCTCTGTTCTGGAGAGATATAGTGACACCTTACA  
 AAACCCGGAACGATGGCAAGCTCTACGATGCGTACATCATTTACCCTCGGGTCTTCCGGGCAGCGCGGC  
 GGGAACCCACTCTGTGGAGTACTTTGTTCAACCACTCTGCCCGACGTTCTTGAATAAATGTCGGCTAC  
 AAATTGTGCATTTATGGGAGAGACCTGTTACCTGGCAAGATGCAGCCACCCTGGTGGAAAAGCAGTATCC  
 AGAATAGCAGAAGACAGGTGTTTGTCTGGCCCTCACATGATGCACAGCAAGGAATTTGCCTACGAGCA  
 GGAGATTGCTCTGCACAGCGCCCTCATCCAGAACAACCTCAAGGTGATTCTTATTGAAATGGAGCCTCTG  
 GGTGAGGCAAGCCGACTACAGGTTGGGGACCTGCAAGATTCTCTCCAGCATCTTGTGAAAATTCAGGGGA  
 CCATCAAGTGGAGGGAAGATCATGTGGCCGACAAGCAGTCTTAAGTTCCAAATCTGGAAGCATGTGAG  
 GTACCAAATGCCAGTGCCAGAAAGAGCCTCCAAGACGGCATCTGTTGCGGCTCCGTTGAGTGGCAAGGCA  
 TGCTTAGACCTGAAACACTTT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>MG227098 representing NM\_001025602  
 Red=Cloning site Green=Tags(s)

MIDRQRMGLWALAILTLPYMLTVTEGSKSSWGLENEALIVRCPQRGRSTYPVEWYSDTNESIPTQKRNR  
 IFVSRDRLKFLPARVEDSGIYACVIRSPNLNKTGYLNVTIHKPPSCNIPDYLMYSTVRGSDKNFKITCP  
 TIDLYNWTAPVQWFKNCKALQEPRFRAHRSYLFIDNVTHDDEGDYTCQFTHAENGTNYIVTATRSFTVEE  
 KGFSMPFVITNPPYNHTMEVEIGKPASIACSACFGKGSFLADVLWQINKTVVGNFGEARIQEEEGRNES  
 SSNDMDCLTSVLRITGVTEKDLSEYDCLALNLHGMIRHTIRLRKQPIDHRSIYYIVAGCSLLLMFINV  
 LVIVLKVFWIEVALFWRDIVTPYKTRNDGKLYDAYIIYPRVFRGSAAGTHSVEYFVHHTLPDVLENKCGY  
 KLCIYGRDLLPGQDAATVVESSIQNSRRQVFLAPHMMHSKEFAYEQEIALHSALIQNNSKIVILIEMEPL  
 GEASRLQVGLDQSLQHLVKIQGTIKWREDHVADKQSLSSKFWKHVRYQMPVPERASKTASVAAPLSGKA  
 CLDLKHF

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001025602

**ORF Size:** 1701 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.

**RefSeq:** [NM\\_001025602.3](#)

**RefSeq Size:** 5080 bp

**RefSeq ORF:** 1704 bp

**Locus ID:** 17082

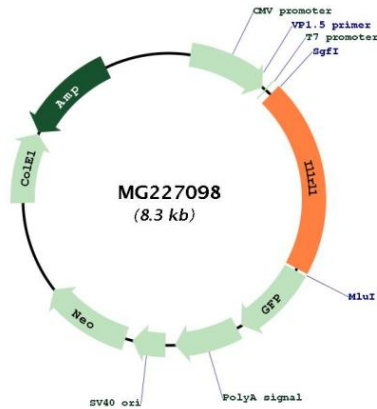
**UniProt ID:** [P14719](#)

**Cytogenetics:** 1 19.19 cM

**Gene Summary:**

Receptor for interleukin-33 (IL-33); signaling requires association of the coreceptor IL1RAP (PubMed:18450470, PubMed:17675517). Its stimulation recruits MYD88, IRAK1, IRAK4, and TRAF6, followed by phosphorylation of MAPK3/ERK1 and/or MAPK1/ERK2, MAPK14, and MAPK8 (By similarity). Possibly involved in helper T-cell function.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MG227098