

## Product datasheet for **MG227508**

### **Il1r1 (NM\_008362) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Il1r1 (NM_008362) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Il1r1
Synonyms:	CD121a; CD121b; IL-1R1; IL-iR; Il1r-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG227508 representing NM\_008362  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGAGAATATGAAAGTCTACTGGGGCTCATTTGTCTCATGGTGCCTCTGCTGTGCTGGAGATTGACG  
 TATGTACAGAATATCCAATCAGATCGTTTTGTTTTATCTGTAATGAAATTGATATTCGAAGTGCC  
 TCTTACTCCAATAAAATGCACGGCGACACCATAATTTGGTACAAGAATGACAGCAAGACCCCCATATCA  
 GCGGACCGGGACTCCAGGATTCATCAGCAGAATGAACATCTTTGGTTGTACCTGCCAAGGTGGAGGACT  
 CAGGATATTACTATTGTATAGTAAGAACTCAACTTACTGCCTCAAACTAAAGTAACCGTAACCTGTGT  
 AGAGAATGACCTGGCTTGTGTACAGCACACAGGCCACCTCCACAGCGGCTCCACATTGCCGGGGAT  
 GGAAGTCTTGTGTGCCCTTATGTGAGTTATTTAAAGATGAAAATAATGAGTTACCCGAGGTCCAGTGGT  
 ATAAGAAGTGAACCTCTGCTTCTTGACAACGTGAGCTTCTTCGGAGTAAAAGATAAAGTGTGGTGAG  
 GAATGTGGCTGAAGAGCACAGAGGGGACTATATATGCCGTATGCCTATACGTTCCGGGGGAAGCAATAT  
 CCGGTCACACGAGTAATACAATTTATCACAATAGATGAAAACAAGAGGGACAGACCTGTTATCCTGAGCC  
 CTCGGAATGAGACGATCGAAGCTGACCCAGGATCAATGATACAACCTGATCTGCAACGTCACGGGCCAGTT  
 CTCAGACCTTGTCTACTGGAAGTGAATGGATCAGAAATTGAATGGAATGATCCATTTCTAGCTGAAGAC  
 TATCAATTTGGGAACATCCTTCAACAAAAGAAAATACACACTCATTACAACACTTAACATTTCAAGAG  
 TAAAAGCCAGTTTTATCGCTATCCGTTTATCTGTGTTGTTAAGAACACAAAATTTTTGAGTCGGCGCA  
 TGTGCAGTTAATATACCCAGTCCCTGACTTCAAGAATTACCTCATCGGGGCTTTATCATCTCACGGCT  
 ACAATGTATGCTGTGTGCATCTATAAAGTCTTCAAGTTGACATAGTCTTTGGTACAGGGACTCCT  
 GCTCTGGTTTTCTCCTCAAAGCTTCCAGATGGAAAGACATACGATGCCTATATCTTTATCCCAAGAC  
 CCTGGGAGAGGGTCTTCTCAGACTTAGATACTTTTGTTTTTAACTGTTGCCTGAGGTCTTGGAGGGA  
 CAGTTTGGATACAAGCTGTTTATTTATGGAAGGGATGACTATGTTGGAGAAGATACCATCGAGGTTACTA  
 ATGAAAATGTAAGAAAAGCAGGAGGCTGATTATCATTCTAGTGAGAGATATGGGAGGCTTCAGCTGGCT  
 GGGCCAGTCATCTGAAGAGCAAATAGCCATATACAATGCTCTCATCCAGGAAGGAATTAAGTCTGCTG  
 CTTGAGTTGGAGAAAATCCAAGACTATGAGAAAATGCCAGATTCTATTGAGTTTAAAGCAGAAACACG  
 GAGTCATTTGCTGGTCAGGAGACTTTCAAGAAAGACCACAGTCTGCAAGACCAGGTTCTGGAAAACTT  
 AAGATACCAGATGCCAGCCAACGGAGATCACCATTGTCTAAACACCGCTTACTAACCTGGATCCTGTG  
 CGGGACACTAAGGAGAACTGCCGGCAGCAACACACTTACCCTCGGC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>MG227508 representing NM\_008362  
 Red=Cloning site Green=Tags(s)

MENMKVLLGLICLMVPLLSLEIDVCTEYPNQIVLFLSVNEIDIRKCLTPNKMHGDTIIWYKNSKTPIS  
 ADRDSRIHQNEHLWFVPAKVEDSGYYCIVRNSTYCLTKVTVTVLENDPGLCYSTQATFPQRLHIAGD  
 GSLVCPYVSYFKDENNELPEVQWYKNCKPLLLDNVSFFGVKDKLLVRNVAEEHRGDYICRMSYTFRGKQY  
 PVTRVIQFITIDENKRD RPVILSPRNETIEADPGSMIQLICNVTGQFSDLVYWKWNGSEIEWNPFLAED  
 YQFVEHPSTKRKYTLITLNISEVKSQFYRYPFICVVKNTNIFESAHVQLIYPVPDFKNYLIGGFIIILTA  
 TIVCCVCYKVFVVDIVLWYRDSGFLPSKASDGKTYDAYILYPKTLGEGSFDLDTFVFKLLPEVLEG  
 QFGYKLFYGRDDYVGEDTIEVTNENVKSRRLIIILVRDMGGF SWLQGSSEEQIAIYNALIQEGIKIVL  
 LELEKIQDYEKMPDSIQFIKQKHGVICWSGDFQERPQSAKTRFWKNLRYQMPAQRSSPLSKHRLLTDPV  
 RDTKEKLPAAATHLPLG

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

SgfI-MluI



<b>OTI Disclaimer:</b>	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
<b>Components:</b>	<p>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).</p>
<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>	<p><a href="#">NM_008362.2</a>, <a href="#">NP_032388.1</a></p>
<b>RefSeq Size:</b>	<p>4739 bp</p>
<b>RefSeq ORF:</b>	<p>1731 bp</p>
<b>Locus ID:</b>	<p>16177</p>
<b>UniProt ID:</b>	<p><a href="#">P13504</a></p>
<b>Cytogenetics:</b>	<p>1 18.81 cM</p>
<b>Gene Summary:</b>	<p>Receptor for IL1A, IL1B and IL1RN. After binding to interleukin-1 associates with the coreceptor IL1RAP to form the high affinity interleukin-1 receptor complex which mediates interleukin-1-dependent activation of NF-kappa-B, MAPK and other pathways. Signaling involves the recruitment of adapter molecules such as TOLLIP, MYD88, and IRAK1 or IRAK2 via the respective TIR domains of the receptor/coreceptor subunits. Binds ligands with comparable affinity and binding of antagonist IL1RN prevents association with IL1RAP to form a signaling complex. Involved in IL1B-mediated costimulation of IFNG production from T-helper 1 (Th1) cells (By similarity).[UniProtKB/Swiss-Prot Function]</p>