

Product datasheet for **MR227508**

Il1r1 (NM_008362) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Il1r1 (NM_008362) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Il1r1
Synonyms:	CD121a; CD121b; IL-1R1; IL-iR; Il1r-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR227508 representing NM_008362
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGAGAATATGAAAGTCTACTGGGGCTCATTTGTCTCATGGTGCCTCTGCTGTCGCTGGAGATTGACG
 TATGTACAGAATATCCAATCAGATCGTTTTGTTTTATCTGTAATGAAATTGATATTCGCAAGTGCC
 TCTTACTCCAATAAAATGCACGGCGACACCATAATTTGGTACAAGAATGACAGCAAGACCCCATATCA
 GCGG[AT]CCGGGACTCCAGGATTCATCAGCAGAATGAACATCTTTGGTTTGTACCTGCCAAGTGGAGG
 ACTCAGGATATTACTATTGTATAGTAAGAACTCAACTTACTGCCTCAAACTAAAGTAACCGTAACTGT
 GTTAGAGAATGACCCTGGCTTGTGTACAGCACACAGGCCACCTCCACAGCGGCTCCACATTGCCGGG
 GATGGAAGTCTTGTGTGCCCTTATGTGAGTTATTTAAAGATGAAAATAATGAGTTACCCGAGGTCCAGT
 GGTATAAGAACTGTAACCTCTGCTTCTTGACAACGTGAGCTTCTCGGAGTAAAAGATAAACTGTTGGT
 GAGGAATGTGGCTGAAGAGCACAGAGGGGACTATATATGCCGTATGTCCTATACGTTCCGGGGGAAGCAA
 TATCCGGTCACACGAGTAATACAATTTATCACAATAGATGAAAACAAGAGGGACAGACCTGTTATCCTGA
 GCCCTCGGAATGAGACGATCGAAGCTGACCCAGGATCAATGATACAACCTGATCTGCAACGTCACGGGCCA
 GTTCTCAGACCTTGTCTACTGGAAGTGGATGGATCAGAAATGAATGGAATGATCCATTCTAGCTGAA
 GACTATCAATTTGTGGAACATCCTTCAACCAAAAGAAAATACACACTCATTACAACACTTAACATTTAG
 AAGTAAAAGCCAGTTTTATCGCTATCCGTTTATCTGTGTTGTTAAGAACACAAAATTTTTGAGTCGGC
 GCATGTGCAGTTAATATACCCAGTCCCTGACTTCAAGAATTACCTCATCGGGGCTTTATCATCCTCAGC
 GCTACAATTGTATGCTGTGTGCATCTATAAGTCTTCAAGGTTGACATAGTGCCTTGGTACAGGGACT
 CCTGCTCTGGTTTTCTTCTTCAAAGCTCAGATGGAAGACATACGATGCCTATATCTTTATCCCAA
 GACCCTGGGAGAGGGTCTTCTCAGACTTAGATACTTTTGTTTTTAACTGTTGCCTGAGGTCTTGGAG
 GGACAGTTTGGATACAAGCTGTTCAATTTATGGAAGGGATGACTATGTTGGAGAAGATACCATCGAGGTTA
 CTAATGAAAATGTAAAGAAAAGCAGGAGGCTGATTATCATTCTAGTGAGAGATATGGGAGGCTTCAGCTG
 GCTGGGCCAGTCATCTGAAGAGCAAATAGCCATATACAATGCTCTCATCCAGGAAGGAATTAATATCGTC
 CTGCTTGAGTTGGAGAAAATCCAAGACTATGAGAAAATGCCAGATTCTATTAGTTTCAATTAAGCAGAAAAC
 ACGGAGTCATTTGCTGGTCAGGAGACTTCAAGAAAGACCACAGTCTGCAAAGACCAGGTTCTGGAAAAA
 CTTAAGATACCAGATGCCAGCCCAACGGAGATCACCATTGTCTAAACACCGCTTACTAACCTGGATCCT
 GTGCGGGACACTAAGGAGAACTGCCGGCAGCAACACACTTACCCTCGGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR227508 representing NM_008362
 Red=Cloning site Green=Tags(s)

MENMKVLLGLICLMVPLLSLEIDVCTEYPNQIVLFLSVNEIDIRKCP LTPNKMHGDTIIWYKNSKTPIS
 AXXRDSRIHQNEHLWFVPAKVEDSGYIYIVRNSTYCLKTKVTVTVLENDPGLCYSTQATFPQRLHIAG
 DGSLVCPYVSYFKDENNELPEVQWYKNCKPLLLDNVSFFGVKDKLLVRNVAEEHRGDYICRMSYTFRGKQ
 YPVTRVIQFITIDENKRDRPVILSPRNETIEADPGSMIQLICNVTGQFSDLVYWKWNGSEIEWNPFLAE
 DYQFVEHPSTKRKYTLITLNISEVKSQFYRYPFICVVKNTNIFESAHVQLIYPVPDFKNYLIGGFIIILT
 ATIVCCVCYKVKVDIVLWYRDSVSGFLPSKASDGKTYDAYIILYPKTLGEGSFDLDTFVFKLLPEVLE
 GQFGYKLFYGRDDYVGEDTIEVTNENVKSRRLIIILVRDMGGF SWLQGSSEEQIAIYNALIQEGIKIV
 LLELEKIQDYEKMPDSIQFIKQKHGVICWSGDFQERPQSAKTRFWKNLRYQMPAQRRSPLSKHRLTLDP
 VRDTKEKLPAAATHLPLG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9015_a01.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_008362

ORF Size: 1731 bp

OTI Disclaimer: 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 custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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.

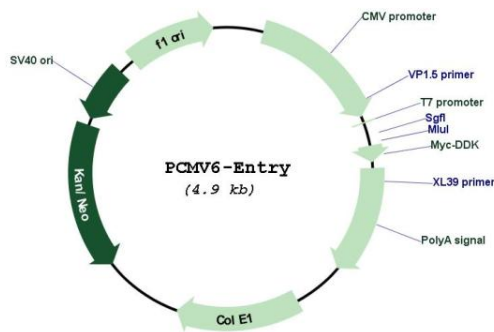
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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_008362.1](#), [NM_008362.2](#), [NP_032388.1](#)
RefSeq Size: 4739 bp
RefSeq ORF: 1731 bp
Locus ID: 16177
UniProt ID: [P13504](#)
Cytogenetics: 1 18.81 cM
MW: 67.1 kDa

Gene Summary: 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]

Product images:



Circular map for MR227508