

Product datasheet for **MG227513**

Il1r1 (NM_001123382) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Il1r1 (NM_001123382) 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:

>MG227513 representing NM_001123382
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAAAGTGTACTGGGGCTCATTTGTCTCATGGTGCCTCTGCTGTCGCTGGAGATTGACGTATGTACAG
 AATATCCAAATCAGATCGTTTTGTTTTTATCTGTAATGAAATTGATATTCGCAAGTGCTCTTACTCC
 AAATAAAATGCACGCGCACACCATAATTTGGTACAAGAATGACAGCAAGACCCCCATATCAGCGGACCGG
 GACTCCAGGATTCATCAGCAGAATGAACATCTTTGGTTTGTACCTGCCAAGGTGGAGGACTCAGGATATT
 ACTATTGTATAGTAAGAACTCAACTTACTGCCTCAAACAAAGTAACCGTAACGTGTGTAGAGAATGA
 CCCTGGCTTGTGTACAGCACACAGGCCACCTCCACAGCGGCTCCACATTGCCGGGGATGGAAGTCTT
 GTGTGCCCTTATGTGAGTATTTTAAAGATGAAAATAATGAGTTACCCGAGGTCCAGTGGTATAAGAACT
 GTAACCTCTGCTTCTTGACAACGTGAGCTTCTCGGAGTAAAAGATAAACTGTTGGTGAGGAATGTGGC
 TGAAGAGCACAGAGGGGACTATATATGCCGTATGCCTATACGTTCCGGGGGAAGCAATATCCGGTCACA
 CGAGTAATACAATTTATACAATAGATGAAAACAAGAGGGACAGACCTGTTATCCTGAGCCCTCGGAATG
 AGACGATCGAAGCTGACCCAGGATCAATGATACAACCTGATCTGCAACGTCACGGGCCAGTCTCAGACCT
 TGTCTACTGGAAGTGGAATGGATCAGAAATTGAATGGAATGATCCATTTCTAGCTGAAGACTATCAATTT
 GTGGAACATCCTTCAACCAAAAAGAAAATACACACTCATTACAACACTTAACATTTCAGAAGTAAAAGCC
 AGTTTTATCGCTATCCGTTTATCTGTGTGTTAAGAACACAAATATTTTTGAGTCGGCGCATGTGCAGTT
 AATATACCCAGTCCCTGACTTCAAGAATTACCTCATCGGGGGCTTTATCATCCTCAGGCCTACAATTGTA
 TGCTGTGTGCATCTATAAAGTCTTCAAGGTTGACATAGTGTCTTGGTACAGGGACTCCTGCTCTGGTT
 TTCTTCTTCAAAGCTTCAGATGAAAAGACATACGATGCCTATATTCTTTATCCAAGACCTGGGAGA
 GGGGTCCTTCTCAGACTTAGATACTTTTGTTTTTAAACTGTTGCCTGAGGTCTTGAGGGACAGTTTGA
 TACAAGCTGTTTATTTATGGAAGGGATGACTATGTTGGAGAAGATACCATCGAGGTTACTAATGAAAATG
 TAAAGAAAAGCAGGAGGCTGATTATCATTCTAGTGAGAGATATGGGAGGCTTCACTGGCTGGGCCAGTC
 ATCTGAAGAGCAAATAGCCATATACAATGCTCTCATCCAGGAAGGAATAAAATCGTCTGCTTGAAGTTG
 GAGAAAATCCAAGACTATGAGAAAATGCCAGATTCTATTCAGTTCATTAAGCAGAAAACACGGAGTCATTT
 GCTGGTCAGGAGACTTTCAAGAAAGACCACAGTCTGCAAAGACCAGGTTCTGGAAAACCTAAGATACCA
 GATGCCAGCCCAACGGAGATCACCATTGTCTAAACACCGCTTACTAACCTGGATCCTGTGCGGGACACT
 AAGGAGAAACTGCCGGCAGCAACACACTTACCCTCGGC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG227513 representing NM_001123382
 Red=Cloning site Green=Tags(s)

MKVLGLICLMVPLLSLEIDVCTEYPNQIVLFLSVNEIDIRKCLPTPNKMHGDTIIWYKNSKTPISADR
 DSRIHQQNEHLWFVPAKVEDSGYYCYIVRNSTYCLKTKVTVTVLENDPGLCYSTQATFPQRLHIAGDGL
 VCPYVSYFKDENNELPEVQWYKNCKPLLLDNVSFFGVKDKLLVRNVAEEHRGDYICRMSYFRGKQYPVT
 RVIQFITIDENKRDRPVILSPRNETIEADPGSMIQLICNVTGQFSDLVYWKWNGSEIEWNDPFLAEDYQF
 VEHPTKRKYTLITTLNISEVKSQFYRYPFICVVKNTNIFESAHVQLIYPVPDFKNYLIGGFIIILTATIV
 CCVCIYKVKVDIVLWYRDSGFLPSKASDGKTYDAYILYPKTLGEGSFDLDTFVFKLLPEVLEGQFG
 YKLFYGRDDYVGEDTIEVTNENVKKSRLIIILVRDMGGFSWLGQSSEEQIAIYNALIQEGIKIVLLEL
 EKIQDYEKMPDSIQFIKQKHGVICWSGDFQERPQSAKTRFWKNLRYQMPAQRRSPLSKHRLTLDPVRDT
 KEKLPAAATHLPLG

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001123382

ORF Size: 1719 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_001123382.1](#), [NP_001116854.1](#)

RefSeq Size: 4808 bp

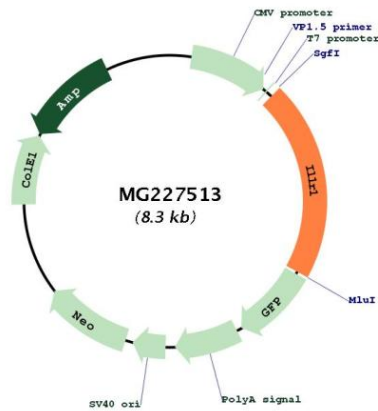
RefSeq ORF: 1722 bp

Locus ID: 16177

Cytogenetics: 1 18.81 cM

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 MG227513