

Product datasheet for **MG223729**

Il1rap (NM_008364) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Il1rap (NM_008364) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Il1rap
Synonyms:	6430709H04Rik; AI255955; AV239853; IL-1RAcP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG223729 representing NM_008364
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGGACTTCTGTGGTATTTGATGAGTCTGTCCTTCTATGGGATCCTGCAGAGTCATGCTTCGGAGCGCT
 GTGATGACTGGGGACTAGATACCATGCGACAAATCCAAGTGTGTTGAAGATGAGCCGGCTCGAATCAAGTG
 CCCCTCTTTGAACACTTCTGAAAGTACAACACTACGCACTGCCATTCTCTGGCCTTACCTGATCTGG
 TACTGGACCAGGCAAGACCGGGACCTGGAGGAGCCATTAACCTCCGCCTCCAGAGAATCGCATCAGTA
 AGGAGAAAAGATGTGCTCTGGTCCGGCCACCCTCCTCAATGACACGGGCAATTACACCTGCATGTTGAG
 GAACACAACCTACTGCAGCAAAGTTGCATTTCCCTGGAAGTTGTTCAGAAGGACAGCTGTTTCAATTCT
 GCCATGAGATCCAGTGCACAAGATGTATATTGAACATGGCATTATAAGATCACATGTCCAAATGTAG
 ACGGATACTTTCTTCCAGTGTCAAACCATCGTCACTTGGTATAAGGGTTGACTGAAATAGTGGACTT
 TCATAATGTACTACCCGAGGGCATGAACCTTGAGCTTTTTATCCCTTGGTTTCAAATAACGGAAATTAC
 ACATGTGTGGTTACATATCCTGAAAACGGACGCTCTTTTACCTACCAGGACTGTGACTGTAAAGTGG
 TGGGCTACCAAAGGATGCATTGCCACCCAGATCTATTCTCAAATGACCGTGTGTCTATGAGAAAGA
 ACCAGGAGAGGAACTGGTTATCCCTGCAAAGTCTATTTCAAGTTTATTATGGACTCCCAATGAGGTC
 TGGTGGACCATTGATGAAAAGAAGCCTGATGACGTACAGTCGACATCACTATTAATGAAAGTGAAGTT
 ATCTTCAACGGAAGTGAACAAGGACTCAGATTTTGAAGCATCAAGAAAGTCAACCCGGAGGATCTCAG
 GCGCAACTATGTCTGTCATGCTCGAAATACCAAGGGGAAGCTGAGCAGGCTGCCAAGGTGAAACAGAAA
 GTCATACCACCAAGGTACACAGTAGAACTCGCCTGTGGTTTTGGAGCCACGGTCTTCTGGTAGTGGTTC
 TCATTGTGGTTTTACCATGTTTACTGGCTGGAGATGGTCTCTTTTACCGAGCTCACTTTGGAACAGATGA
 AACAAATCTTGATGAAAAGGAGTATGATATTTATGTTTCTATGCAAGAAATGTGGAAGAAGGAAATTT
 GTGCTGCTGACGCTGCGTGGAGTTTTGGAGAATGAGTTTGGATACAAGCTGTGCATCTTCGACAGAGACA
 GCCTGCCTGGGGAAATTGTCACAGATGAGACCCTGAGCTTCAATCAGAAAAGCAGACGACTCCTGGTTGT
 CCTAAGTCCCACTACGTGCTCCAGGGAACACAAGCCCTCCTGGAGCTCAAGGCTGGCCTAGAAAAATG
 GCCTCCCGGGCAACATCAACGTCATTTTGTGAGTACAAGCTGTGAAGGACATGAAGGTGAAAGAGC
 TGAAGCGGGCTAAGACGGTGTACGGTCATTAATGGAAGGAGAGAAAATCAAGTATCCTCAGGGCAG
 GTTCTGGAAGCAGTTGCAGGTGGCCATGCCAGTGAAGAAGAGTCCAGGTGGTCTAGCAATGACAAGCAG
 GGTCTCTCTACTCATCCCTGAAAACGTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG223729 representing NM_008364
 Red=Cloning site Green=Tags(s)

MGLLWYLMSLSFYGILQSHASERCDDWGLDTRMQIQVFEDEPARIKCPLFEHFLKYNYSTAHSSGLTLIW
 YWTRQDRDLEEFINFRLENRISKEKDVLFWRPTLLNDTGNITCMLRNTTYCSKVAFPLEVVQKDSFCNS
 AMRFPVHKMYIEHGIHKITCPNVDGYFPSSVKPSVTWYKGCTEIVDFHNVLPEGMNLSFFIPLVSNNGNY
 TCVVYTPENGRLFHLTRVTVKVVGSPKDALPPQIYSPNDRVVEKEPGEELVIPCKVYVYFIMDSHNEV
 WWTIDGKKPDDVTVDITINESVSYSTEDETRTQILSIKKVTPEDLRNRYVCHARNTKGEAEQAAKVKQK
 VIPPRYVELACFGATVFLVVVLIVVYHVVWLEMVLFYRAHFGTDETILDGKEYDIYVSYARNVEEEEF
 VLLTLRGVLENEFGYKLCIFDRDSLPGGIVTDETLRFIQKSRLLVVLSPNYVLQGTQALLELKAGLENM
 ASRGNINVILVQYKAVKDMVKELKRAKTVLTVIKWKGEKSKYPQGRFWQLQVAMPVKKSPRWSSNDKQ
 GLSYSSLLKNV

TRTRPLE - GFP Tag - V

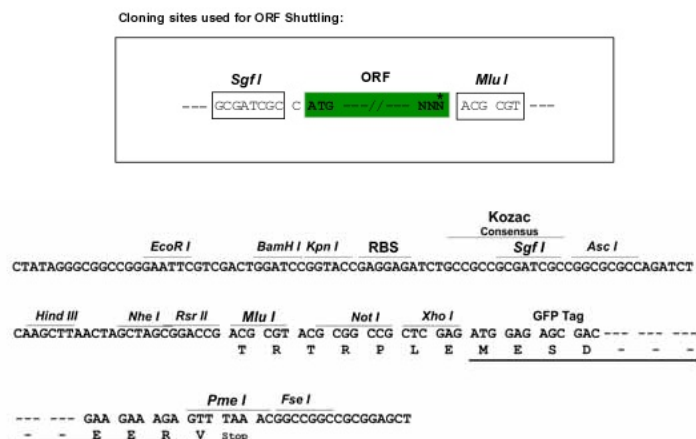
Chromatograms:

https://cdn.origene.com/chromatograms/ja2681_d03.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_008364

ORF Size: 1710 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).

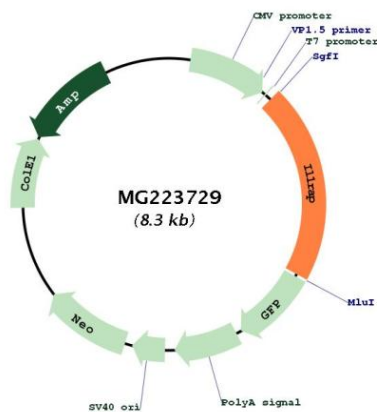
Reconstitution Method:

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_008364.2, NP_032390.1](#)
RefSeq Size: 4576 bp
RefSeq ORF: 1713 bp
Locus ID: 16180
UniProt ID: [Q61730](#)
Cytogenetics: 16 B2

Gene Summary: Coreceptor for IL1RL2 in the IL-36 signaling system. Coreceptor with IL1R1 in the IL-1 signaling system. Associates with IL1R1 bound to IL1B to form the high affinity interleukin-1 receptor complex which mediates interleukin-1-dependent activation of NF-kappa-B 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. Recruits TOLLIP to the signaling complex. Does not bind to interleukin-1 alone; binding of IL1RN to IL1R1, prevents its association with IL1R1 to form a signaling complex. The cellular response is modulated through a non-signaling association with the membrane IL1R2 decoy receptor. Secreted forms (isoforms 2 and 3) associate with secreted ligand-bound IL1R2 and increase the affinity of secreted IL1R2 for IL1B; this complex formation may be the dominant mechanism for neutralization of IL1B by secreted/soluble receptors. Coreceptor for IL1RL1 in the IL-33 signaling system. Can bidirectionally induce pre- and postsynaptic differentiation of neurons by trans-synaptically binding to PTPRD (PubMed:25908590). May play a role in IL1B-mediated costimulation of IFNG production from T-helper 1 (Th1) cells (By similarity). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG223729