

Product datasheet for **MG224562**

Il1rap (NM_001159318) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Il1rap (NM_001159318) 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)



[View online »](#)

ORF Nucleotide Sequence:

>MG224562 representing NM_001159318
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGACTTCTGTGGTATTTGATGAGTCTGTCTTCTATGGGATCCTGCAGAGTCATGCTTCGGAGCGCT
 GTGATGACTGGGACTAGATACCATGCGACAAATCCAAGTGTGTTGAAGATGAGCCGGCTCGAATCAAGTG
 CCCCTCTTTGAACACTTCTGAAAGTACAACACTACGACTGCCATTCTCTGGCCTTACCTGATCTGG
 TACTGGACCAGGCAAGACCGGGACCTGGAGGAGCCATTAACCTCCGCCTCCAGAGAATCGCATCAGTA
 AGGAGAAAAGATGTGCTCTGGTCCGGCCACCCTCCTCAATGACACGGGCAATTACACCTGCATGTTGAG
 GAACACAACCTACTGCAGCAAAGTTGCATTTCCCTGGAAGTTGTTCAGAAGGACAGCTGTTTCAATTCT
 GCCATGAGATCCAGTGCACAAGATGTATATTGAACATGGCATTATAAGATCACATGTCCAAATGTAG
 ACGGATACTTTCCCTCCAGTGTCAAACCATCGTCACTTGGTATAAGGGTGTACTGAAATAGTGGACTT
 TCATAATGTACTACCCGAGGGCATGAACCTTGAGCTTTTTATCCCTTGGTTTCAAATAACGGAAATTAC
 ACATGTGTGGTTACATATCCTGAAAACGGACGTCTTTTACCTACCAGGACTGTGACTGTAAAGGTGG
 TGGGCTACCAAAGGATGCATTGCCACCCAGATCTATTCTCAAATGACCGTGTGTCTATGAGAAAGA
 ACCAGGAGAGGAACTGGTTATCCCTGCAAAGTCTATTTCAAGTTTCAATTGACTCCCAATGAGGTC
 TGGTGGACCATTGATGAAAAGAAGCCTGATGACGTACAGTCGACATCACTATTAATGAAAGTGAAGTT
 ATCTTCAACGGAAGATGAAACAAGGACTCAGATTTTGGAGCATCAAGAAAGTCAACCCGGAGGATCTCAG
 GCGCAACTATGTCTGTATGCTCGAAATACCAAAGGGGAAAGCTGAGCAGGCTGCCAAGGTGAAACAGAAA
 GTCATACCACCAAGGTACACAGTAGAACCTCGCTGTGGTTTTGGAGCCACGGTCTTCTGGTAGTGGTTC
 TCATTGTGGTTTTACCATGTTTACTGGCTGGAGATGGTCCCTTTTTACCGAGCTCACTTTGGAACAGATGA
 AACAAATCTTGATGAAAAGGAGTATGATTTTATGTTTCCCTATGCAAGAAATGTGGAAGAAGAGGAATTT
 GTGCTGCTGACGCTGCGTGGAGTTTTGGAGAATGAGTTTGGATACAAGCTGTGCATCTTCGACAGAGACA
 GCCTGCCTGGGGGAAATACCGTGAAGCAGTTTTTGTATTCATTGAGAGGAGCCGAAGGATGATTGTTGT
 CCTGAGCCCTGACTATGTGACAGAAAAGAGCATCAGCATGCTGGAGTTTAAAGCTGGGTGTCATGTGCCAG
 AACTCCATTGCCACTAAGCTCATTGTGGTGGAGTACCGTCCGCTTGGCAACCCCATCCAGGCATCATGC
 AGCTGAAGGAGTCTGTGCTTTTGTAAAGCTGGAAGGGAGAAAAGTCCAAACATTCTGGCTCCAAGTTCTG
 GAAGGCCCTTGCCTTTGGCTCTTCCCTGAGAAGTCTGAGCGCCAGCTCCGGCTGGAATGAGAGCTGTTCT
 TCTCAGTCTGACATCAGTCTGGATCATGTTGAGAGGAGAAGTCGTTTGAAGAGCCCCAGAACTCCGAA
 GCTCAGAGAGGGTGTCTGGAGCAGAGCCAGCCCCGGGCAGATGTCCAAGCACCGAGGAAACCCCTCAGC
 AGCCTGTGCTGTGTGTGACCTACTGTGAAGGAGAAAAGTCACTCAGGAGCAAGAGCCGGGCAGAGATG
 CACACGCATCCCCAGTGGGAAACACACCTCTGTAAAGCCTCTCTCAAGAGTCTGAAAGTCAAGTGGATAC
 AAAATGGCACCCGACCCGAACCCGCTCCCGAGATCTCAGCTCTTGCACTCCGCCACTTTACAGATTTATC
 CAATAACAATGACTTTTATATCCTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG224562 representing NM_001159318
 Red=Cloning site Green=Tags(s)

```
MGLLWYLSLSFYGILQSHASERCDDWGLDTMRQIQVFEDEPARIKCPLFEHFLKYNSTAHSSGLTLIW
YWTRQDRDLEEFINFRLENRISKEKDVLFWRPTLLNDTGNITCMLRNTTYCSKVAFPLEVVQKDSFNS
AMRFPVHKMYIEHGIHKITCPNVDGYFPSSVKPSVTWYKGCTEIVDFHNVLP EGMNLSFFIPLVSNNGNY
TCVVYTPENGRFLHLTRTVTVKVVGSPKDALPPQIYSPNDRVVYEKEPGEELVIPCKVYFSFIMDSHNEV
WWTIDGKPPDDVTVDITINESVSYSTEDTRTQILSIKKVTPEDLRNNYVCHARNTKGEAEQAQAKVKQK
VIPPRYTVELACGFGATVFLVVVLIVVYHVYVLEMLVLFYRAHFGTDEITLDGKEYDIYVSYARNVEEEEF
VLLTLRGLVLENEFGYKLCIFDRDSLPGGNTVEAVDFDIQSRRMIVVLSPDYVTEKISISMLEFKLVMCQ
NSIATKLI VVEYRPLEQPHPGIMQLKESVSFVSWKGEKSKHSGSKFWKALRLALPLRSLASSGWNEESC
SQSDISLDHVQRRSRLKEPPELRSSSERVSGAEPAPGTMSKHRGKPSAACRCCVTYCEGESHLRKSRAEM
HTHPQWETHLCKPPLQESESQWIQNGTRPEPAPQISALALRHFTDL SNNNDFYIL
```

TRTRPLE - GFP Tag - V

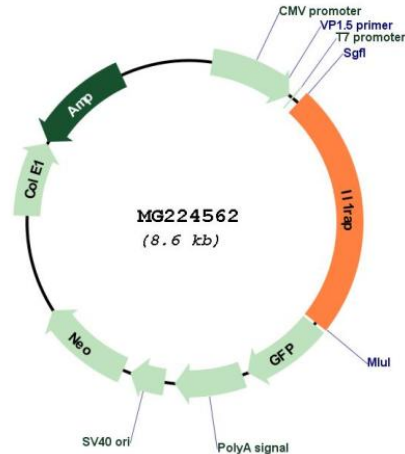
Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:


ACCN: NM_001159318

ORF Size: 2055 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_001159318.1](#), [NP_001152790.1](#)

RefSeq Size: 4320 bp

RefSeq ORF: 2058 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]