

Product datasheet for **MG225765**

Il18r1 (NM_008365) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Il18r1 (NM_008365) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Il18r1
Synonyms:	Il1rrp; Il18ralpha
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG225765 representing NM_008365
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCATCATGAAGAATTAATCTTGACACTCTGCATTCTCATTGTTAAAAGTGCCTCAAAAAGTTGTATTC
 ACCGATCACAAATTCATGTGGTAGAGGGAGAACCCTTTTATCTGAAGCCATGTGGCATATCTGCACCACT
 GCACAGGAATGAAACAGCCACCATGAGATGGTTCAAAGGCAGTGCCTCACATGAGTATAGAGAGCTGAAC
 AACAGAAGCTCGCCAGAGTCACTTTTCATGATCACACCTTGAATTCTGGCCAGTTGAGATGGAGGATG
 AGGGAACGTACATTTCTCAAGTCGGAATGATCGTCGCAATTGGACCTTAAATGTCACCAAAAAGAAACAA
 ACACAGCTGTTTCTGACAAGCTCGTACAAGCAGAGATGTTGAAGTTAACAAATCTCTGCATATCACT
 TGTAAGAATCCTAACTATGAAGAGCTGATCCAGGACACATGGCTGTATAAGAACTGAAGGAAATATCCA
 AAACCCCAAGGATCCTGAAGGATGCCGAGTTTGGAGATGAGGGCTACTACTCCTCGCTGTTTTCTGTCCA
 CCATAATGGGACACGGTACAACATCACCAAGACTGTCAATATAACAGTTATTGAAGGAAGGAGTAAAGTA
 ACTCCAGCTATTTTAGGACCAAAGTGTGAGAAGGTTGGTGTAGAAGTAAAGGATGTGGAGTTGAACT
 GCAGTGCTTCATTGAATAAAGACGATCTGTTTTATTGGAGCATCAGGAAAAGGACAGCTCAGACCCATA
 TGTGCAAGAAGACAGGAAGGAGACGACAACATGGATTTCTGAAGGCAAATGCATGCTTCAAAAATACTG
 AGATTTTCAGAAAATTACTGAAAATATCTCAATGTTTTATATAATTGCACCGTGGCCAACGAAGAAGCCA
 TAGACACCAAGAGCTTCGTCTTGGTGAGAAAAGAAATACCTGATATCCCAGGCCATGTCTTTACAGGAGG
 AGTAACTGTGCTTGTCTCGCTCTGTGGCAGCAGTGTGTATAGTGATTTTGTGTGCATTTATAAAGTT
 GACTTGGTCTGTCTATAGGCGCATAGCGGAAAGAGACGAGACACTAACAGATGGTAAAACATATGATG
 CCTTTGTGCTTACCTGAAAGAGTGTCACTCTGAGAATAAAGAAGAGTATACTTTTGTGTGGAGAGCTT
 ACCCAGGTCCTGGAGAAACAGTTTGGGTATAAGTTATGCATATTTGAAAGAGATGTGGTGCCTGGCGGA
 GCTGTTGTCGAGGAGATCCATTCAGTATAGAGAAAAGCCGAGGCTAATCATCGTTCTCAGCCAGAGTT
 ACCTGACTAACGGAGCCAGGCGTGAAGTCTGAGAGTGGACTCCACGAAGCACTGGTAGAGAGGAAGATTAA
 GATCATCTTAATTGAGTTTACTCCAGCCAGCAACATCACCTTTCTCCCCCGTGCCTGAAACTCCTGAAG
 TCCTACAGAGTTCTAAAATGGAGGGCTGACAGTCCCTCCATGAAGTCAAGGTTCTGGAAGAATCTTGTT
 ACCTGATGCCCGAAAAGCCGTCAGCCATGGAGAGAGGAGTCCGAGGCGCGGTCTGTTCTCAGCACC
 T

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG225765 representing NM_008365
 Red=Cloning site Green=Tags(s)

MHHEELILTLCLIVKSASKSCIHRSQIHVVEGEPFYLKPCGISAPVHRNETATMRWFKGSASHEYRELN
 NRSSPRVTFHDHTLEFWPVEMEDEGTYISQVGNDRRNWTLNVTKRNKHSCFSDKLVTSRDVEVNLKSLHIT
 CKNPNYEELIQDTWLYKNCKEISKTPRILKDAEFGDEGYSCVFSVHHNGTRYNITKTVNITVIEGRSKV
 TPAILGPKCEKVGVELGKDVELNCSASLNKDDLFYWSIRKEDSSDPNVQEDRKETTTWIEGKHLASKIL
 RFQKITENYLNLYNCTVANEEAIDTKSFVLRKEIPDIPGHVFTGGVTVLVLASVAAVCIVILCVIYKV
 DLVLFYRRIAERDETLTDGKTYDAFVSYLKECHPENKEEYTFAVETLPRVLEKQFGYKLCIFERDVVPGG
 AVVEEIHSLIEKSRRLIIVLSQSYLTNGARRELESGLHEALVERKIKIILIEFTPASNITFLPPSLKLLK
 SYRVLKW RADSPSMNSRFWKNLVYLMPAKAVKWPREESEARSVLSAP

TRTRPLE - GFP Tag - V

Restriction Sites:

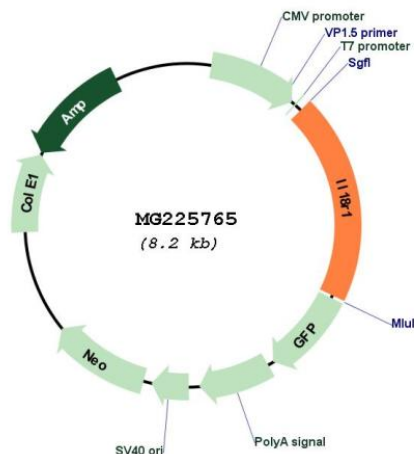
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN:	NM_008365
ORF Size:	1611 bp
OTI Disclaimer:	<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 custsupport@origene.com 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. More info</p>
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:	<ol style="list-style-type: none"> 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:	<u>NM_008365.2</u> , <u>NP_032391.1</u>
RefSeq Size:	4158 bp
RefSeq ORF:	1614 bp
Locus ID:	16182
UniProt ID:	<u>Q61098</u>
Cytogenetics:	1 B
Gene Summary:	<p>Within the IL18 receptor complex, responsible for the binding of the proinflammatory cytokine IL18, but not IL1A nor IL1B. Involved in IL18-mediated IFNG synthesis from T-helper 1 (Th1) cells (By similarity). Contributes to IL18-induced cytokine production, either independently of SLC12A3, or as a complex with SLC12A3 (PubMed:26099046). [UniProtKB/Swiss-Prot Function]</p>