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Product datasheet for MG225118

Il1f6 (NM_019450) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Il1f6 (NM_019450) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Il1f6
Synonyms:	Fil1; IL-1H1; Il1f9; IL1RP2; Il36a
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>MG225118 representing NM_019450
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAATAAGGAGAAAGAACTAAGAGCAGCATCACCTTCGCTTAGACATGTTCAGGATCTTAGTAGTCGTG
TGTGGATCCTGCAGAACAATATCCTCACTGCAGTCCCAAGGAAAGAGCAAACAGTTCCAGTCACTATTAC
CTTGCTCCCATGCCAATATCTGGACACTCTTGAGACGAACAGGGGGGATCCCACGTACATGGGAGTGCAA
AGGCCGATGAGCTGCCTGTTCTGCACAAAGGATGGGGAGCAGCCTGTGCTACAGCTTGGGGAAGGGAACA
TAATGGAAATGTACAACAAAAAGGAACCTGTAAAAGCCTCTCTCTTCTATCACAAGAAGAGTGGTACAAC
CTCTACATTTGAGTCTGCAGCCTTCCCTGGTTGGTTCATCGCTGTCTGCTCTAAAGGGAGCTGCCCACTC
ATTCTGACCCAAGAACTGGGGGAAATCTTCATCACTGACTTCGAGATGATTGTGGTACAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG225118 representing NM_019450
Red=Cloning site Green=Tags(s)

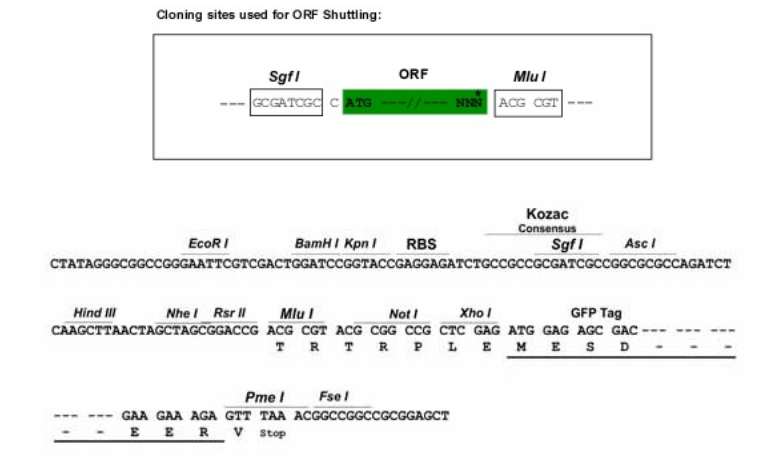
MNKEKELRAASPSLRHVQDLSSRVWILQNNILTAVPRKEQTVPVTITLLPCQYLDTLETNRGDPTYMGVQ
RPMSCLFCTKDGEQPVLQLGEGNIMEMYNKKEPVKASLFYHKKSGTTSTFESAAFPGWFIAVCSKGSCPL
ILTQELGEIFITDFEMIVVH

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

View online »

Cloning Scheme:



ACCN:	NM_019450
ORF Size:	480 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_019450.3, NP_062323.1
RefSeq Size:	883 bp
RefSeq ORF:	483 bp

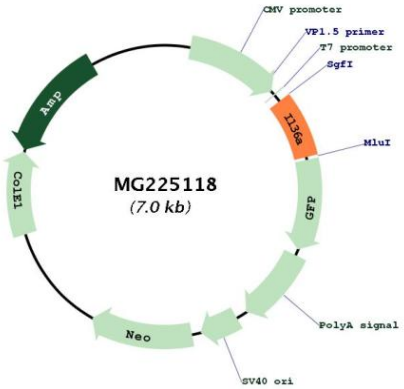
Locus ID: 54448

UniProt ID: Q9JLA2

Cytogenetics: 2 16.26 cM

Gene Summary: Cytokine that binds to and signals through the IL1RL2/IL-36R receptor which in turn activates NF-kappa-B and MAPK signaling pathways in target cells linked to a pro-inflammatory response. Part of the IL-36 signaling system that is thought to be present in epithelial barriers and to take part in local inflammatory response; similar to the IL-1 system with which it shares the coreceptor IL1RAP. Seems to be involved in skin inflammatory response by acting on keratinocytes, dendritic cells and indirectly on T-cells to drive tissue infiltration, cell maturation and cell proliferation. Induces the production of proinflammatory cytokines, including IL-12, Il-1 beta, IL-6, TNF-alpha and IL-23 in bone marrow-derived dendritic cells (BMDCs). Involved in dendritic cell maturation by stimulating the surface expression of CD80, CD86 and MHC class II. Induces the production of IFN-gamma, IL-4 and IL-17 by cultured CD4(+) T-cells and splenocytes. May play a role in proinflammatory effects in the lung: induces the expression of CXCL1 and CXCL2 in the lung, and the expression of TNF-alpha, IL-36c, IL-1A, IL-1B, CXCL1 and CXCL2 in isolated splenic CD11c(+) alveolar macrophages. May be involved in T-cell maturation by stimulating the surface expression of CD40 and modestly CD80 and CD86 in splenic CD11c(+) cells. May be involved in CD4(+) T-cell proliferation. Induces NF-kappa B activation in macrophages.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG225118