Product datasheet for MR227227

Il33 (NM_133775) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Il33 (NM_133775) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Il33
Synonyms:	9230117N10Rik; Il-33; Il1f11; NF-HEV
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR227227 representing NM_133775 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGACCTAGAATGAAGTATTCCAACTCCAAGATTTCCCCGGCAAAGTTCAGCAGCACCGCAGGCGAAG
CCCTGGTCCCGCCTTGCAAAATAAGAAGATCCCAACAGAAGACCAAAGAATTCTGCCATGTCTACTGCAT
GAGACTCCGTTCTGGCCTCACCATAAGAAAGGAGACTAGTTATTTTAGGAAAGAACCCACGAAAAGATAT
TCACTAAAATCGGGTACCAAGCATGAAGAGAACTTCTCTGCCTATCCACGGGATTCTAGGAAGAGATCCT
TGCTTGGCAGTATCCAAGCATTTGCTGCGTCTGTTGACACATTGAGCATCCAAGGAACTTCACTTTTAAC
ACAGTCTCCTGCCTCCCTGAGTACATACAATGACCAATCTGTTAGTTTTGTTTTGGAGAATGGATGTTAT
GTGATCAATGTTGACGACTCTGGAAAAGACCAAGAGCAAGACCAGGTGCTACTACGCTACTATGAGTCTC
CCTGTCCTGCAAGTCAATCAGGCGACGGTGTGGATGGGAAGAAGGTGATGGTGAACATGAGTCCCATCAA
AGACACAGACATCTGGCTGCATGCCAACGACAAGGACTACTCCGTGGAGCTTCAAAGGGGTGACGTCTCG
CCTCCGGAACAGGCCTTCTTCGTCCTTCACAAAAAGTCCTCGGACTTTGTTTCATTTGAATGCAAGAATC
TTCCTGGCACTTACATAGGAGTAAAAGATAACCAGCTGGCTCTAGTGGAGGAGAAAGATGAGAGCTGCAA
CAATATTATGTTTAAGCTCTCGAAAATC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>MR227227 representing NM_133775
Red=Cloning site Green=Tags(s)

MRPRMKYSNSKISPAKFSSTAGEALVPPCKIRRSQQKTKEFCHVYCMRLRSGLTIRKETSYFRKEPTKRY
SLKSGTKHEENFSAYPRDSRKRSLLGSIQAFAASVDTLSIQGTSLLTQSPASLSTYNDQSVSFVLENGCY
VINVDDSGKDQEQDQVLLRYYESPCPASQSGDGVDGKKVMVNMSPIKDTDIWLHANDKDYSVELQRGDVS
PPEQAFFVLHKKSSDFVSFECKNLPGTYIGVKDNQLALVEEKDESCNNIMFKLSKI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:
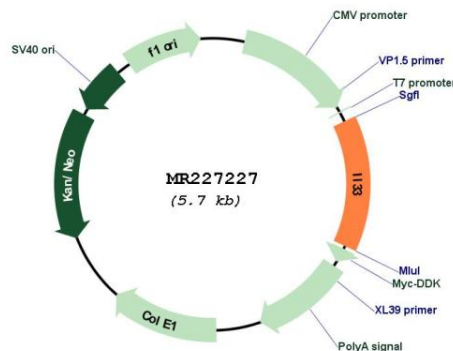

ACCN: NM_133775

ORF Size: 798 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_133775.1
RefSeq Size:	2534 bp
RefSeq ORF:	801 bp
Locus ID:	77125
UniProt ID:	Q8BVZ5
Cytogenetics:	19 C1
MW:	30.4 kDa
Gene Summary:	Cytokine that binds to and signals through the IL1RL1/ST2 receptor which in turn activates NF-kappa-B and MAPK signaling pathways in target cells. Involved in the maturation of Th2 cells inducing the secretion of T-helper type 2-associated cytokines. Also involved in activation of mast cells, basophils, eosinophils and natural killer cells. Acts as a chemoattractant for Th2 cells, and may function as an "alarmin", that amplifies immune responses during tissue injury. [UniProtKB/Swiss-Prot Function]

Product images:

Circular map for MR227227