

Product datasheet for **MR226748**

Il4 (NM_021283) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Il4 (NM_021283) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Il4
Synonyms: BSF-1; Il-4
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR226748 representing NM_021283
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGTCTCAACCCAGCTAGTTGTCATCCTGCTCTTCTTTCTCGAATGTACCAGGAGCCATATCCAGG
GATGCGACAAAAATCACTTGAGAGAGATCATCGGCATTTTGAACGAGGTACAGGAGAAGGGACGCCATG
CACGGAGATGGATGTGCCAACGTCCTCACAGCAACGAAGAACCACAGAGAGTGAGCTCGTCTGTAGG
GCTTCCAAGGTGCTTCGCATATTTATTTAAAACATGGGAAAACCCATGCTTGAAGAAGAACTCTAGTG
TTCTCATGGAGCTGCAGAGACTTTTCGGGCTTTTCGATGCCTGGATTCATCGATAAGCTGCACCATGAA
TGAGTCCAAGTCCACATCACTGAAAGACTTCTGGAAAGCCTAAAGAGCATCATGCAAATGGACTACTCG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR226748 representing NM_021283
Red=Cloning site Green=Tags(s)

MGLNPQLVVILLFFLECTRSHIHGCDKNHLREIIGILNEVTGEGTPCTEMDVPNVLTATKNTTESELVCR
ASKVLRIFYLKHGKTPCLKKNSSVLMELQRLFRAFRCCLDSSISCTMNESKSTSLKDFLESLSKIMQMDYS

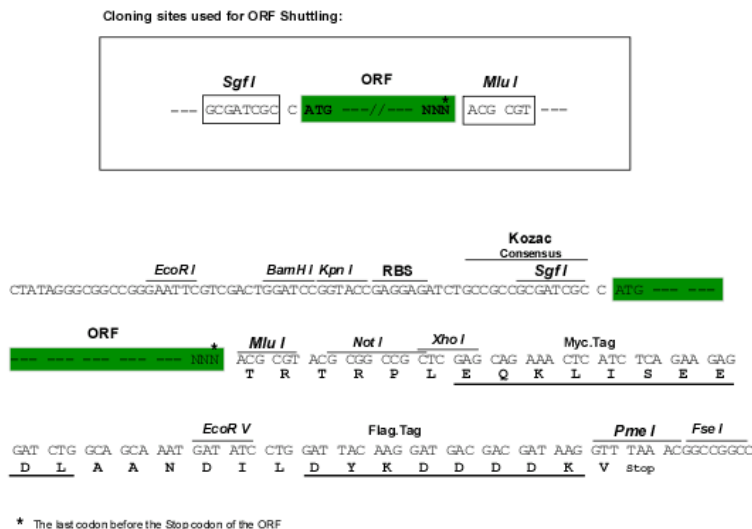
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9008_c10.zip

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_021283

ORF Size: 420 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.

RefSeq: [NM_021283.2](#), [NP_067258.1](#)

RefSeq Size: 605 bp

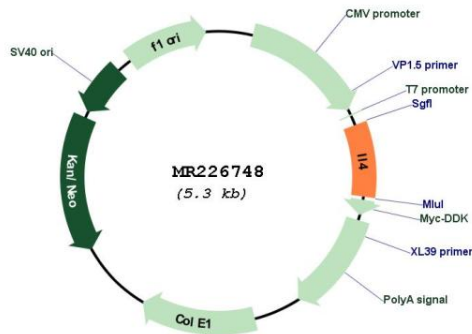
RefSeq ORF: 423 bp

Locus ID: 16189

UniProt ID: [P07750](#)

Cytogenetics:	11 31.97 cM
MW:	16.3 kDa
Gene Summary:	Participates in at least several B-cell activation processes as well as of other cell types (PubMed:3083412). It is a costimulator of DNA-synthesis. It induces the expression of class II MHC molecules on resting B-cells (PubMed:3498301). It enhances both secretion and cell surface expression of IgE and IgG1 (PubMed:3498301). It also regulates the expression of the low affinity Fc receptor for IgE (CD23) on both lymphocytes and monocytes. Positively regulates IL31RA expression in macrophages (PubMed:25847241). Stimulates autophagy in dendritic cells by interfering with mTORC1 signaling and through the induction of RUFY4 (PubMed:26416964).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR226748