

Product datasheet for RG211224

IL12A (NM_000882) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: IL12A (NM_000882) Human Tagged ORF Clone

Tag: TurboGFP

Symbol: IL12A

Synonyms: CLMF; IL-12A; NFSK; NKSF1; P35

Mammalian Cell

Selection:

Neomycin

Vector: pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >RG211224 representing NM_000882

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGTGGCCCCTGGGTCAGCCTCCCAGCCACCGCCCTCACCTGCCGCGCCACAGGTCTGCATCCAGCGGCTCGCCCTGTGTCCCTGCAGCTCCAGCGCCCTCACCTGCCCCTGTGTCCCTGCAGTGCCAGCCCCTCAGCCCCCTGTGTCCCTTGTGGCTACCCTGGTCCTCCTGGACCACCTCCAGACCCAGACCCAGAAACCTCCCAGACCCAGACCACACCCCAGACCACACCCCCAGACCACACCCCCAGACCACACCCCCAGACCACACCCCCAGACCACACCCCAGACCACACCCCAGACCACACCCCAGACAAACCCTCAGAATTTACCCTTGCACTTCTGAAGAGATTAACCAAGAATCACCAAAAAGATAAAACCAGCACAGTGGAATTTACCATTGGAATTAACCAAGAATGAGAGTTGCCTAAATTCCAGAGAGACCTCTTTCATAACTAATGGGAGTTGCCTGGCCTCCAGAAAGACCTCTTTTATGATGGCCCTTGGCCTTAGTAGTATTTATGAAGACCTTGAAGATGAACCATGAATGCAAAACCTCTGATGGATCCTAAGAGCCAGATCTTTCTAGATCAAAAACATCCTCCCTTGAAGAACCCGGATTTTTATAAAACTAAAATCAAGCTCTGCATACTTCTCCATGCTTTCCAGAATTCCAGAATTCCAGAACCTTCTTCAAGACCTATCTTCAAGAACCTCTGCATACTTCTCCATGCTTTCAAGAATTCCAGAATTCCGGCAGTGACTTTTTATAAAACTAAAATCAAGCTCTGCATACTTCTTCATGCTTTCAGAATTCCGGCAGTGACTATTGATAGAGTGATGAGCTTATCTGAATGCTTCCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG211224 representing NM_000882

Red=Cloning site Green=Tags(s)

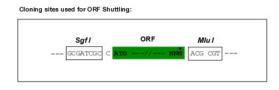
MWPPGSASQPPPSPAAATGLHPAARPVSLQCRLSMCPARSLLLVATLVLLDHLSLARNLPVATPDPGMFP CLHHSQNLLRAVSNMLQKARQTLEFYPCTSEEIDHEDITKDKTSTVEACLPLELTKNESCLNSRETSFIT NGSCLASRKTSFMMALCLSSIYEDLKMYQVEFKTMNAKLLMDPKRQIFLDQNMLAVIDELMQALNFNSET VPQKSSLEEPDFYKTKIKLCILLHAFRIRAVTIDRVMSYLNAS

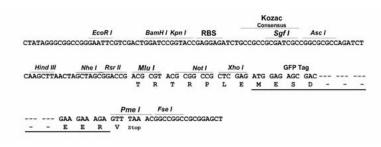
TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:





ACCN: NM_000882

ORF Size: 759 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 customercom 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: <u>NM 000882.4</u>

 RefSeq Size:
 1444 bp

 RefSeq ORF:
 762 bp

 Locus ID:
 3592

 UniProt ID:
 P29459

 Cytogenetics:
 3q25.33

Protein Families: Druggable Genome, Secreted Protein

Protein Pathways: Allograft rejection, Cytokine-cytokine receptor interaction, Jak-STAT signaling pathway, RIG-I-

like receptor signaling pathway, Toll-like receptor signaling pathway, Type I diabetes mellitus

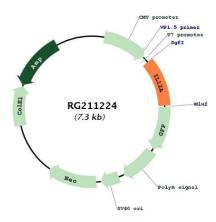
Gene Summary: This gene encodes a subunit of a cytokine that acts on T and natural killer cells, and has a

broad array of biological activities. The cytokine is a disulfide-linked heterodimer composed of the 35-kD subunit encoded by this gene, and a 40-kD subunit that is a member of the cytokine receptor family. This cytokine is required for the T-cell-independent induction of interferon (IFN)-gamma, and is important for the differentiation of both Th1 and Th2 cells. The responses of lymphocytes to this cytokine are mediated by the activator of transcription protein STAT4. Nitric oxide synthase 2A (NOS2A/NOS2) is found to be required for the

signaling process of this cytokine in innate immunity. [provided by RefSeq, Jul 2008]



Product images:



Circular map for RG211224