

Product datasheet for **MG225609**

IL12a (NM_001159424) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IL12a (NM_001159424) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	IL12a
Synonyms:	IL-12a; IL-12p35; LI12a; p35
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG225609 representing NM_001159424 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTCAGCGTTCCAACAGCCTCACCTCGGCATCCAGCAGCTCCTCTCAGTGCCGGTCCAGCATGTGTC
AATCACGCTACCTCCTCTTTTTGGCCACCCTTGCCTCCTAAACCACCTCAGTTTGGCCAGGGTCATTCC
AGTCTCTGGACCTGCCAGGTGTCTTAGCCAGTCCCGAACTGCTGAAGACCACAGATGACATGGTGAAG
ACGGCCAGAGAAAACTGAAACATTATTCCTGCACTGCTGAAGACATCGATCATGAAGACATCACACGGG
ACCAAACCAGCACATTGAAGACCTGTTTACCACCTGGAACACACAAGAAGAGAGTTGCCTGGCTACTAG
AGAGACTTCTTCCACAACAAGAGGGAGCTGCCTGCCCCACAGAAGACGCTTTTGATGATGACCCCTGTGC
CTTGGTAGCATCTATGAGGACTTGAAGATGTACCAGACAGAGTCCAGGCCATCAACGCAGCACTTCAGA
ATCACAACCATCAGCAGATCATTCTAGACAAGGGCATGCTGGTGGCCATCGATGAGCTGATGCAGTCTCT
GAATCATAATGGCGAGACTCTGCGCCAGAACTCCTGTGGGAGAAGCAGACCCTTACAGAGTAAAAATG
AAGCTCTGCATCCTGCTTACGCCTTACGACCCGCGTCGTGACCATCAACAGGGTATGGGCTATCTGA
GCTCCGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG225609 representing NM_001159424
 Red=Cloning site Green=Tags(s)

MVSVPTASPSASSSSSQCRSSMCQSRVLLFLATLALLNHLSLARVIPVSGPARCLSQSRNLLKTTDDMVK
 TAREKLKHYSCAEDIDHEDITRDQSTLTKCLPELHKNESCLATRETSSTTRGSCLPPQKTSMLMMLC
 LGSIIYEDLKMYQTEFQAINAALQNHNHQIILDKGMLVAIDELMQSLNHNGETLRQKPPVGEADPYRVKM
 KLCILLHAFSTRVVTINRVMGYLSSA

TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja1502_a04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001159424

ORF Size: 708 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_001159424.2](#)

RefSeq Size: 1303 bp

RefSeq ORF: 711 bp

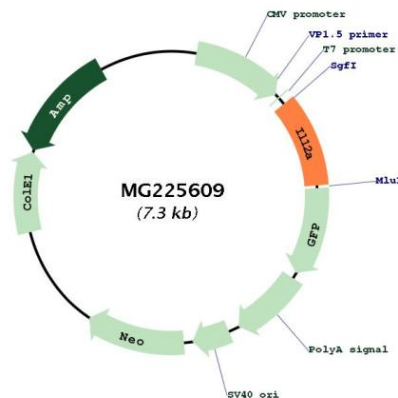
Locus ID: 16159

UniProt ID: [P43431](#)

Cytogenetics: 3 31.92 cM

Gene Summary: Cytokine that can act as a growth factor for activated T and NK cells, enhance the lytic activity of NK/lymphokine-activated killer cells, and stimulate the production of IFN-gamma by resting PBMC.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG225609