

Product datasheet for **RG209679**

IL12B (NM_002187) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | IL12B (NM_002187) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | IL12B |
| Synonyms: | CLMF; CLMF2; IL-12B; IMD28; IMD29; NKSF; NKSF2 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | >RG209679 representing NM_002187 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTGTCACCAGCAGTTGGTCATCTCTGGTTTTCCCTGGTTTTCTGGCATCTCCCTCGTGGCCATAT
GGGAAGTGAAGAAAGATGTTTATGTCGTAGAATTGGATTGGTATCCGGATGCCCCGGAGAAATGGTGGT
CCTCACCTGTGACACCCCTGAAGAAGATGGTATCACCTGGACCTGGACCAGAGCAGTGAGGTCTTAGGC
TCTGGCAAACCTGACCATCAAAGTCAAAGATTTGGAGATGCTGGCCAGTACACCTGTCACAAAGGAG
GCGAGTTCTAAGCCATTCGCTCCTGCTGCTTCAAAAAAGGAAGATGGAATTTGGTCCACTGATATTTT
AAAGGACCAGAAAGAACCACAAAAATAAGACCTTTCTAAGATGCGAGGCCAAGAATTATTCTGGACGTTTC
ACCTGCTGGTGGCTGACGACAATCAGTACTGATTTGACATTCAGTGTCAAAGCAGCAGAGGCTCTTCTG
ACCCCAAGGGGTGACGTGCGGAGCTGCTACACTCTGTCAGAGAGAGTCAGAGGGGACAACAAGGAGTA
TGAGTACTCAGTGGAGTGCCAGGAGGACAGTGCCTGCCAGCTGCTGAGGAGAGTCTGCCATTGAGGTC
ATGGTGGATGCCGTTACAAGCTCAAGTATGAAACTACACCAGCAGCTTCTTATCAGGGACATCATCA
AACCTGACCCACCAAGAAGTTCAGCTGAAGCCATTAAGAATTCTCGGAGGTGGAGGTCAGCTGGGA
GTACCTGACACCTGGAGTACTCCATTCCTACTTCTCCCTGACATTCTGCGTTTCAGGTCCAGGGCAAG
AGCAAGAGAGAAAAGAAAGATAGAGTCTTACGGACAAGACCTCAGCCACGGTCATCTGCCGCAAAAATG
CCAGCATTAGCGTGGGGCCAGGACCGCTACTATAGCTCATCTTGGAGCGAATGGGCATCTGTGCCCTG
CAGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG209679 representing NM_002187
Red=Cloning site Green=Tags(s)

MCHQQLVISWFSLVFLASPLVAIWELKKDVYVVELDWYPDAPGEMVVLTCDTPEEDGITWTLDQSSEVLG
 SGKTLTIQVKEFGDAGQYTCHKGGEVLSHSLLLHKKEDGIWSTDILKDQKEPKNKTFLRCEAKNYSGRF
 TCWLLTTISTDLTFSVKSSRGSSDPQGVTCGAATLSAERVRGDNKEYEYSVECQEDSACPAAEESLPIEV
 MVDVHKLKYENYTSSFFIRDI IKPDPKPNLQLKPLKNSRQVEVSWEYPTWSTPHSYFSLTFCVQVQGK
 SKREKKDRVFTDKTSATVICRKNASISVRAQDRYSSSWSEWASVPCS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_002187

ORF Size: 984 bp

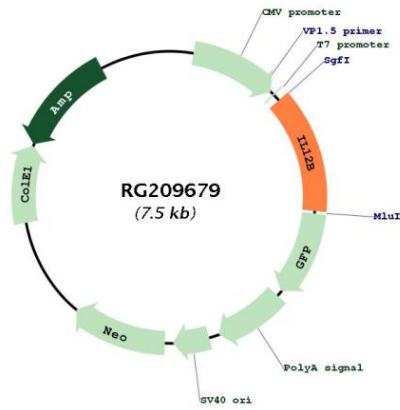
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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).

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|-------------------------------|---|
| Reconstitution Method: | <ol style="list-style-type: none">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_002187.3 |
| RefSeq Size: | 2347 bp |
| RefSeq ORF: | 987 bp |
| Locus ID: | 3593 |
| UniProt ID: | P29460 |
| Cytogenetics: | 5q33.3 |
| Domains: | FN3 |
| Protein Families: | Druggable Genome, Secreted Protein, Transmembrane |
| 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: | <p>This gene encodes a subunit of interleukin 12, a cytokine that acts on T and natural killer cells, and has a broad array of biological activities. Interleukin 12 is a disulfide-linked heterodimer composed of the 40 kD cytokine receptor like subunit encoded by this gene, and a 35 kD subunit encoded by IL12A. This cytokine is expressed by activated macrophages that serve as an essential inducer of Th1 cells development. This cytokine has been found to be important for sustaining a sufficient number of memory/effector Th1 cells to mediate long-term protection to an intracellular pathogen. Overexpression of this gene was observed in the central nervous system of patients with multiple sclerosis (MS), suggesting a role of this cytokine in the pathogenesis of the disease. The promoter polymorphism of this gene has been reported to be associated with the severity of atopic and non-atopic asthma in children. [provided by RefSeq, Jul 2008]</p> |

Product images:



Circular map for RG209679