

## Product datasheet for **RG209680**

### IL23 (IL23A) (NM\_016584) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** IL23 (IL23A) (NM\_016584) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** IL23  
**Synonyms:** IL-23; IL-23A; IL23P19; P19; SGRF  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG209680 representing NM\_016584  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCTGGGGAGCAGAGCTGTAATGCTGCTGTTGCTGCTGCCCTGGACAGCTCAGGGCAGAGCTGTGCCTG  
 GGGGCAGCAGCCCTGCCTGGACTCAGTGCCAGCAGCTTTCACAGAAGCTCTGCACACTGGCTGGAGTGC  
 ACATCCACTAGTGGACACATGGATCTAAGAGAAGAGGGAGATGAAGAGACTACAATGATGTTCCCAT  
 ATCCAGTGTGGAGATGGCTGTGACCCCCAAGACTCAGGGACAACAGTCAGTTCTGCTTGCAAAGGATCC  
 ACCAGGGTCTGATTTTTATGAGAAGCTGCTAGGATCGGATATTTTCACAGGGGAGCCTTCTCTGCTCCC  
 TGATAGCCCTGTGGCCAGCTTCATGCCTCCCTACTGGGCCTCAGCCAACCTCCTGCAGCCTGAGGGTCCAC  
 CACTGGGAGACTCAGCAGATGCCAAGCCTCAGTCCCAGCCAGCCATGGCAGCGTCTCCTTCTCCGCTTCA  
 AAATCCTTCGCAACCTCCAGGCCTTTGTGGCTGTAGCCGCCCGGGTCTTTGCCCATGGAGCAGCAACCTT  
 GAGTCCC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:** >RG209680 representing NM\_016584  
 Red=Cloning site Green=Tags(s)

MLGSRAVMLLLLLPWTAQGRAVPGGSSPAWTQCQQLSQKLCTLAWSAHLVGHMDLREEGDEETTNDVPH  
 IQCGDGDQPQLRDNSQFCLQRIHQGLIFYEKLLGSDIFTGEPSELLPDSVPGQLHASLLGLSLLQPEGH  
 HWETQQMPSLSPSQPWQRLLLRFKILRNLQAFVAVAAARVFAHGAATLSP

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



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**Cloning Scheme:**

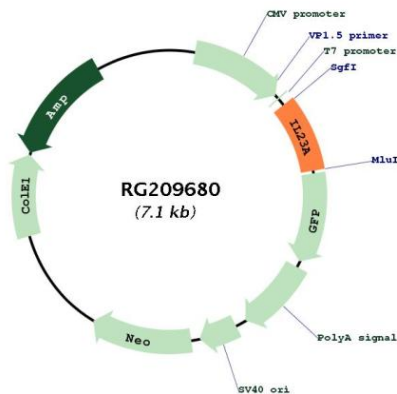

<b>ACCN:</b>	NM_016584
<b>ORF Size:</b>	567 bp
<b>OTI Disclaimer:</b>	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), 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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_016584.2</a> , <a href="#">NP_057668.1</a>
<b>RefSeq Size:</b>	1049 bp
<b>RefSeq ORF:</b>	570 bp
<b>Locus ID:</b>	51561
<b>UniProt ID:</b>	<a href="#">Q9NPF7</a>
<b>Cytogenetics:</b>	12q13.3

**Protein Families:** Druggable Genome, Secreted Protein

**Protein Pathways:** Cytokine-cytokine receptor interaction, Jak-STAT signaling pathway

**Gene Summary:** This gene encodes a subunit of the heterodimeric cytokine interleukin 23 (IL23). IL23 is composed of this protein and the p40 subunit of interleukin 12 (IL12B). The receptor of IL23 is formed by the beta 1 subunit of IL12 (IL12RB1) and an IL23 specific subunit, IL23R. Both IL23 and IL12 can activate the transcription activator STAT4, and stimulate the production of interferon-gamma (IFNG). In contrast to IL12, which acts mainly on naive CD4(+) T cells, IL23 preferentially acts on memory CD4(+) T cells. [provided by RefSeq, Jul 2008]

**Product images:**



Circular map for RG209680