

## Product datasheet for **MG227682**

### II17a (NM\_010552) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** II17a (NM\_010552) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** II17a  
**Synonyms:** Ctl; Ctl $\alpha$ ; Ctl $\alpha$ -8; Ctl $\alpha$ 8; II; IL-; IL-17; IL-17A; II17  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG227682 representing NM\_010552  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGAGTCCAGGGAGAGCTTCATCTGTGTCTCTGATGCTGTTGCTGCTGCTGAGCCTGGCGGCTACAGTGA  
 AGGCAGCAGCGATCATCCCTCAAAGCTCAGCGTGTCCAAACACTGAGGCCAAGGACTTCTCCAGAATGT  
 GAAGGTCAACCTCAAAGCTTTAACTCCCTTGGCGAAAAGTGAGCTCCAGAAGGCCCTCAGACTACCTC  
 AACCGTCCACGTCACCCTGGACTCTCCACCGCAATGAAGACCCTGATAGATATCCCTCTGTGATCTGGG  
 AAGCTCAGTGCCGCCACCAGCGCTGTGCAATGCGGAGGGAAAGCTGGACCACCACATGAATTCTGTTCT  
 CATCCAGCAAGAGATCCTGGTCTGAAGAGGGAGCCTGAGAGCTGCCCTTCACTTTCAGGGTCGAGAAG  
 ATGCTGGTGGGTGTGGGCTGCACCTGCGTGGCCTCGATTGTCCGCCAGGCAGCC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG227682 representing NM\_010552  
 Red=Cloning site Green=Tags(s)

MSPGRASSVSLMLLLLLSLAATVKAALIPQSSACPNTAKDFLQNVKVNKVFNSLGAKVSSRRPSDYL  
 NRSTSPWTLHRNEDPDRYPSVIWEAQCRHQRCVNAEGKLDHMHNSVLIQQEILVLKREPESCPFTFRVEK  
 MLVGVGCTCVASIVRQAA

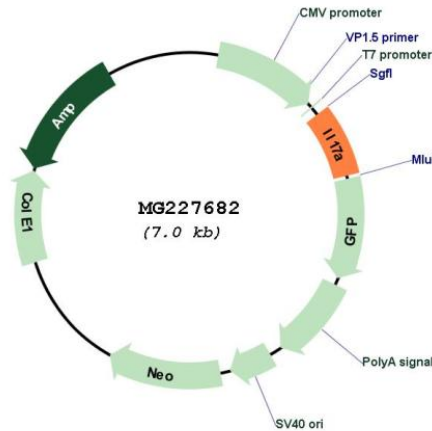
**TRTRPLE** - GFP Tag - V

**Restriction Sites:** SgfI-MluI



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**Cloning Scheme:**

**Plasmid Map:**


ACCN: NM\_010552

ORF Size: 474 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.

<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>	<u>NM_010552.3, NP_034682.1</u>
<b>RefSeq Size:</b>	1171 bp
<b>RefSeq ORF:</b>	477 bp
<b>Locus ID:</b>	16171
<b>UniProt ID:</b>	<u>Q62386</u>
<b>Cytogenetics:</b>	1 A4
<b>Gene Summary:</b>	This gene encodes a pro-inflammatory cytokine that is a member of the interleukin-17 family. The encoded protein plays a central role in host defense against diverse pathogens. The encoded protein is produced by activated T-cells and certain cell types of innate immune system. The active protein functions as either a homodimer with other interleukin-17 family members and signals through the interleukin-17 receptor to induce inflammatory cytokine production. Aberrant expression of this gene is associated with autoinflammatory diseases including rheumatoid arthritis, psoriasis and multiple sclerosis. [provided by RefSeq, Sep 2015]