

## Product datasheet for **MG202722**

### **Ebi3 (NM\_015766) Mouse Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ebi3 (NM_015766) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ebi3
Synonyms:	EBI-3; IL-27
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG202722 representing NM_015766 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCCAAGCTGCTCTTCCTGTCACTTGCCTCTGGGCCAGCCGCTCCCCTGGTTACTGAAACAGCTC  
TCGTGGCTCTAAGCCAGCCAGAGTGCAATGCCATGCTTCTCGGTATCCCGTGGCCGTGGACTGCTCCTG  
GACTCCTCTCCAGGCTCCCACTCCACCAGATCCACGTCCTTCATTGCCACTTACAGGCTCGGTGTGGCC  
ACCCAGCAGCAGAGCCAGCCCTGCCTACAACGGAGCCCCAGGCCTCCCGATGCACCATCCCCGACGTGC  
ACCTGTTCTCCACGGTGCCTACATGCTAAATGTCAGTGCAGTGCACCCAGGCGGCCAGCAGCAGCCT  
CCTAGCCTTTGTGGCTGAGCGAATCATCAAGCCGACCCCTCCGGAAGGCGTGCCTGCGCACAGCGGGA  
CAGCGCCTGCAGGTGCTCTGGCATCCCCCTGCTTCTGGCCCTTCCCGGACATCTTCTCTCAAGTACC  
GACTCCGCTACCGGCGCCGAGGAGCCTCTCACTCCGCCAGGTGGGACCCATTGAAGCCAGACTTTCAC  
CCTCAGGAATCGAAACCCATGCCAAGTATTGCATCCAGGTGTCAGCTCAGGACCTCACAGATTATGGG  
AAACCAAGTGACTGGAGCCTCCCTGGGCAAGTAGAAAGTGACCCCATAGGCC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG202722 representing NM\_015766  
 Red=Cloning site Green=Tags(s)

MSKLLFLSLALWASRSPGYTETALVALSQPRVQCHASRYPVAVDCSWTPLQAPNSTRSTSFATYRLGVA  
 TQQSQPCLQRSPQASRCTIPDVHLFSTVPYMLNVTAVHPGGASSLLAFVAERIIKPDPEGVRLRTAG  
 QRLQVLWHPPASWPFDPDIFSLKYRLRYRRRGASHFRQVGP IEATFTFLRNSKPHAKYCIQVSAQDLTDYG  
 KPSDWSLPGQVESAPHKP

TRTRPLE - GFP Tag - V

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja2074\\_b05.zip](https://cdn.origene.com/chromatograms/ja2074_b05.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_015766

**ORF Size:** 684 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\\_015766.2](#), [NP\\_056581.1](#)

**RefSeq Size:** 1187 bp

**RefSeq ORF:** 687 bp

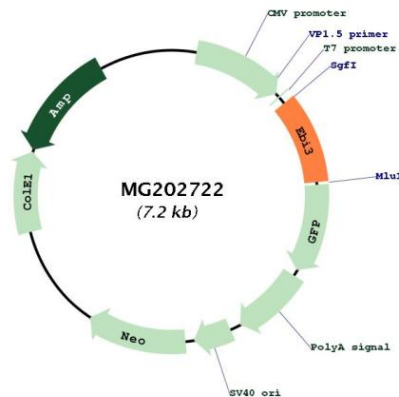
**Locus ID:** 50498

**UniProt ID:** [O35228](#)

**Cytogenetics:** 17 29.08 cM

**Gene Summary:** Associates with IL27 to form the IL-27 interleukin, a heterodimeric cytokine which functions in innate immunity. IL-27 has pro- and anti-inflammatory properties, that can regulate T-helper cell development, suppress T-cell proliferation, stimulate cytotoxic T-cell activity, induce isotype switching in B-cells, and that has diverse effects on innate immune cells. Among its target cells are CD4 T-helper cells which can differentiate in type 1 effector cells (TH1), type 2 effector cells (TH2) and IL17 producing helper T-cells (TH17). It drives rapid clonal expansion of naive but not memory CD4 T-cells. It also strongly synergizes with IL-12 to trigger interferon-gamma/IFN-gamma production of naive CD4 T-cells, binds to the cytokine receptor WSX-1/TCCR. Another important role of IL-27 is its antitumor activity as well as its antiangiogenic activity with activation of production of antiangiogenic chemokines. [UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MG202722