

## Product datasheet for **RG201216**

### Bak (BAK1) (NM\_001188) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Bak (BAK1) (NM_001188) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Bak
Synonyms:	BAK; BAK-LIKE; BCL2L7; CDN1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG201216 representing NM_001188 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTTCGGGGCAAGGCCAGGTCTCCAGGCAGGAGTGCGGAGAGCCTGCCCTGCCCTCTGCTTCTG  
AGGAGCAGGTAGCCAGGACACAGAGGAGGTTTTCCGAGCTACGTTTTTACC GCCATCAGCAGGAACA  
GGAGGCTGAAGGGGTGGCTGCCCTGCCAGCCAGAGATGGTCACCTTACCTCTGCAACCTAGCAGCACC  
ATGGGGCAGGTGGGACGGCAGCTCGCCATCATCGGGACGACATCAACCGACGCTATGACTCAGAGTTCC  
AGACCATGTTGCAGCACCTGCAGCCACGGCAGAGAATGCCTATGAGTACTTCACCAAGATTGCCACCAG  
CCTGTTTGAGAGTGGCATCAATTGGGGCCGTGTGGTGGCTCTTCTGGGCTTCGGCTACCGTCTGGCCCTA  
CACGTCTACCAGCATGGCCTGACTGGCTTCTTAGGCCAGGTGACCCGCTTCGTGGTTCGACTTCATGCTGC  
ATCACTGCATTGCCCGTGGATTGCACAGAGGGGTGGCTGGTGGCAGCCCTGAACCTGGGCAATGGTCC  
CATCCTGAACGTGCTGGTGGTTCTGGGTGTGGTTCTGTTGGCCAGTTTGTGGTACGAAGATTCTTCAA  
TCA

**ACGCGT**ACGCGGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG201216 representing NM\_001188  
 Red=Cloning site Green=Tags(s)

MASGQGPGRPRQCEGEPALPSASEEQVAQDTEEVFRSYVFRHQEQEAEQVAAPADPEMVTLPQPSST  
 MGQVGRQLAIIIGDDINRRYDSEFQTMLQHLQPTAENAYEYFTKIATSLFESGINWGRVVALLGFGYRLAL  
 HYYQHGLTGFLGQVTRFVDFMLHHCIARWIAQRGGWVAALNLGNPILNVLVVLGVLLGQFVVRFFK  
 S

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001188

**ORF Size:** 633 bp

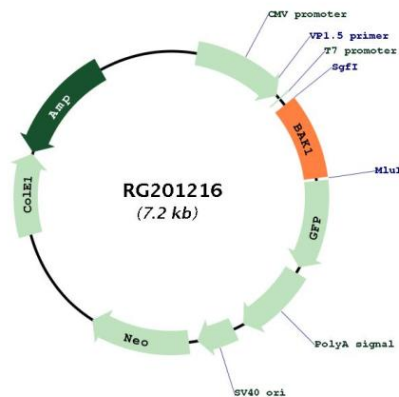
**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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><a href="#">NM_001188.4</a></u>
<b>RefSeq Size:</b>	2165 bp
<b>RefSeq ORF:</b>	636 bp
<b>Locus ID:</b>	578
<b>UniProt ID:</b>	<u><a href="#">Q16611</a></u>
<b>Cytogenetics:</b>	6p21.31
<b>Domains:</b>	Bcl-2
<b>Protein Families:</b>	Druggable Genome, Stem cell - Pluripotency, Transmembrane
<b>Gene Summary:</b>	The protein encoded by this gene belongs to the BCL2 protein family. BCL2 family members form oligomers or heterodimers and act as anti- or pro-apoptotic regulators that are involved in a wide variety of cellular activities. This protein localizes to mitochondria, and functions to induce apoptosis. It interacts with and accelerates the opening of the mitochondrial voltage-dependent anion channel, which leads to a loss in membrane potential and the release of cytochrome c. This protein also interacts with the tumor suppressor P53 after exposure to cell stress. [provided by RefSeq, Jul 2008]

### Product images:



Circular map for RG201216