

## Product datasheet for **SC119385**

### Bak (BAK1) (NM\_001188) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Bak (BAK1) (NM_001188) Human Untagged Clone
Tag:	Tag Free
Symbol:	Bak
Synonyms:	BAK; BAK-LIKE; BCL2L7; CDN1
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_001188 edited  
 GAATTCGGCAGGACAGGGACAAGTAAAGGCTACATCCAGATGCCGGGAATGCACTG  
 ACGCCCATTCCTGAAACTGGGCTCCCACTCAGCCCTGGGAGCAGCAGCCGCCAGCCCC  
 TCGGGACCTCCATCTCCACCTGCTGAGCCACCCGGGTTGGGCCAGGATCCCGGCAGGCT  
 GATCCCGTCTCCACTGAGACCTGAAAAATGGCTTCGGGGCAAGGCCAGGTCTCCAG  
 GCAGGAGTGCCGAGAGCCTGCCCTGCCCTCTGCTTCTGAGGAGCAGGTAGCCAGGACAC  
 AGAGGAGTTCCTCCGACGTACGTTTTTTACCGCCATCAGCAGGAACAGGAGGCTGAAGG  
 GGTGGCTGCCCTGCCGACCCAGAGATGGTCACCTTACCTCTGCAACCTAGCAGCACCAT  
 GGGCAGGTGGGACGGCAGCTCGCCATCATCGGGACGACATCAACCGACGCTATGACTC  
 AGAGTTCAGACCATGTTGCAGCACCTGCAGCCACGGCAGAGAATGCCTATGAGTACTT  
 CACCAAGATTGCCACCAGCCTGTTTGGAGTGGCATCAATTGGGGCCGTGTGGTGGCTCT  
 TCTGGGCTTCGGTACCGTCTGGCCCTACACGTCTACCAGCATGGCCTGACTGGCTTCT  
 AGGCCAGGTGACCCGCTTCGTGGTGGACTTCATGCTGCATCACTGCATTGCCCGTGGAT  
 TGCACAGAGGGTGGCTGGTGGCAGCCCTGAACCTGGGCAATGGTCCCATCCTGAACGT  
 GCTGGTGGTTCTGGGTGGTCTGTTGGGCCAGTTTGTGGTACGAAGATTCTTCAAATC  
 ATGACTCCAAGGTGCCCTTTGGGGTCCCGGTTCAAXXXXXXXXXXXXXXXXXXAGGTC  
 CTGCTCAACTCTACCCCTGCTCCCATTCCTCCCTCCGGCCATACTGCCTTTGAGTTGGA  
 CTCTCAGGGATTCTGGGCTTGGGGTGTGGGGTGGGGTGGAGTCGCAGACCAGAGCTGTCT  
 GAACTCACGTGTGAGAAGCCTCAAGCCTGCCTCCAAGGTCCTCTCAGTTCTCTCCCTT  
 CCTCTCTCTTATAGACACTTGTCCCAACCCATTCACTACAGGTGAAGGCTCTCACCCC  
 CATCCCTGGGGCCCTTGGGTGAGTGGCTGCTAAGGCTCCTCCTTGCCCAGACTACAGGG  
 CTTAGGACTTGGTTTGTATTTACAGGAAAAGGAGTAGGGAGTTCATCTGGAGGGTTCTA  
 AGTGGGAGAAGGACTATCAACACCACTAGGAATCCAGAGGTGGGATCCTCCCTCATGGC  
 TCTGGCACAGTGTAAATCCAGGGGTGTAGATGGGGAACTGTGAATACTTGAACCTGTTC  
 CCCCACCTCCATGCTCCTCACCTGTCTAGGTCTCCTCAGGGTGGGGGTGACAGTGCCT  
 TCTCTATTGGGCACAGCCTAGGGTCTTGGGGGTGAGGGGGGAGAAGTTCTTGATTAGCC  
 AAATGCAGGGAGGGGAGGCAGATGGAGCCCATAGGCCACCCCTATCCTCTGAGTGTGG  
 GAAATAAACTGTGCAATCCCTCAAAAAAAAAAAAAAAAAAACTCGAC

**5' Read Nucleotide Sequence:** >OriGene 5' read for NM\_001188 unedited  
 GGTATAATTTGTAATACGACTTCACTATAGGGCGGCCGGAATTCGCACGAGGCACAGG  
 GACAAGTAAAGGCTACATCCAGATGCCGGGAATGCACTGACGCCATTCTTGAAACTGG  
 GCTCCCACTCAGCCCTGGGAGCAGCAGCCGCCAGCCCTCGGGACCTCCATCTCCACCC  
 TGCTGAGCCACCCGGGTTGGGCCAGGATCCCGGCAGGCTGATCCCGTCTCCACTGAGAC  
 CTGAAAAATGGCTTCGGGGCAAGGCCAGGTCTCCAGGCAGGAGTGCCGAGAGCCTGC  
 CCTGCCCTCTGCTTCTGAGGAGCAGGTAGCCCAGGACACAGAGGAGTTTTCCGCAGCTA  
 CGTTTTTTACCGCCATCAGCAGGAACAGGAGGCTGAAGGGGTGGCTGCCCTGCCGACCC  
 AGAGATGGTCACCTTACCTCTGCAACCTAGCAGCACCATGGGGCAGGTGGGACGGCAGCT  
 CGCCATCATCGGGGACGACATCAACCGACGCTATGACTCAGAGTTCAGACCATGTTGCA  
 GCACCTGCAGCCACGGCAGAGAATGCCTATGAGTACTTCACCAAGATTGCCACCAGCCT  
 GTTTGAGAGTGGCATCAATTGGGGCCGTGTGGTGGCTCTTCTGGGCTTCGGCTACCGTCT  
 GGCCCTACACGTCTACCAGCATGCCCTGACTGGCTTCTANGCCANGTGACCCGTTCTGT  
 GGTGACTTCATGCTGCATCACTGCATTGCCCGTGGATTGCACACAGGGCTGCCTGGGT  
 GGCAGCCCTGAACCTTGGCCATGGTCCCATCCTGAACGTGCTGGTGGNTCCTGGGGTGGG  
 TCTTGTGGGCCAGTTGTGTACGAAAAATCTCAAACATGACTCCAAGGTGCCCTTTGG  
 GTCCCGGTGAGACCCCA

<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_001188 unedited ATGGCCGCGCCCGCATCTANGATCGAGTTTTTTTTTTTTTTTTTTTTTTTGGAGGGGATTGCACA GTTTATTTCCAAACACTCAGNAGATAGGGGGTGGCCTATGGGCTCCATCTGCCTCCCCTC CCTGCATTTGGCTGAATCAAGAACTTCTCCCCCTGACCCCAAGACCCTAGGCTGTGCC CAATAGAGAAGGCACTGTACCCCCACCCTGAGGAGACCTAGACAGGTGAGGAGCATGG AGGGTGGGGGAACAGAGTTCAAGTATTCACAGTTCCCCCATCTACACCCCTGGATTACAC TGTGCCAGAGCCATGAGGGAGGATCCCACCTCTGGGATTCTAGTGGCGTTGATAGTCCT TCTCCCCTTAGAACCTCCAGATGAACTCCCTACTCCTTTTCCCTGAAATAACAAACCA AGTCCTAAGCCCTGTAGTCTGGGCAAGGAGGAGCCTTAGCAGGCCACTCACCCAAGGCC CCAGGGATGGGGGTGAGAGCCCTTACCTGTAGTGAATGGGTTGGGAGCAAGTGTCTATA AGGAGAGAGGAAGGGAGAGAAGTACAGGACCTTGGGAGGCAGGCTTGGAGGCTTCTGAC ACGTGAGTTCAGACAGCTCTGGTCTGCGACTTACCCACCCACCCCAAGCCAGAAT CCCTGAGAGTTCAACTGCAAAGGCCATATGGCCGGAGGGAGGAATGGCAGCCAGGGTAAA GTTGACCAGGACCTTGATCACCTTTACTAAAGGACCTGCTCCTGGGCACATGCTTAGGG ACGCCCAGCACCAGCCTCAGCTCTAGACCCATCTCTTAGGGGCTGATCTTACAAAAACC TGAAATCTGGGGAACATAAACCCCCCATTTCCGACCCCGAAGACCTGGACCCAG
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_001188
<b>Insert Size:</b>	2130 bp
<b>OTI Disclaimer:</b>	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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> 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. <a href="#">More info</a>
<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_001188.2</a> , <a href="#">NP_001179.1</a>
<b>RefSeq Size:</b>	2165 bp
<b>RefSeq ORF:</b>	636 bp

<b>Locus ID:</b>	578
<b>UniProt ID:</b>	<a href="#">Q16611</a>
<b>Cytogenetics:</b>	6p21.31
<b>Domains:</b>	Bcl-2
<b>Protein Families:</b>	Druggable Genome, Stem cell - Pluripotency, Transmembrane
<b>Gene Summary:</b>	<p>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]</p>