

Product datasheet for **MC207228**

Birc5 (NM_001012273) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Birc5 (NM_001012273) Mouse Untagged Clone
Tag: Tag Free
Symbol: Birc5
Synonyms: A; AAC-11; Api4; s; survivin40; T; TIAP
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC207228 representing NM_001012273
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGAGCTCCGGCGCTGCCCCAGATCTGGCAGCTGTACCTCAAGAACTACCGCATCGCCACCTTCAAGA
ACTGGCCCTTCTGGAGGACTGCGCCTGCACCCAGAGCGAATGGCGGAGGCTGGCTTCATCCACTGCC
TACCGAGAACGAGCCTGATTTGGCCAGTGTCTTTCTGCTTTAAGGAATTGGAAGGCTGGGAACCCGAT
GACAACCCGATAGAGGAGCATAGAAAGCACTCCCTGGCTGCGCCTTCTCACTGTCAAGAAGCAGATGG
AAGAACTAACCGTCAGTGAATTCTTGAAGTGGACAGACAGAGAGCCAAGAACAATTGTATGTATGAT
TGAGAATAAGGACTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001012273
Insert Size: 366 bp



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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 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](#)

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_001012273.1](#), [NP_001012273.1](#)

RefSeq Size: 3416 bp

RefSeq ORF: 366 bp

Locus ID: 11799

UniProt ID: [O70201](#)

Cytogenetics: 11 E2

Gene Summary: This gene is a member of the inhibitor of apoptosis (IAP) gene family, which encode negative regulatory proteins that prevent apoptotic cell death. IAP family members usually contain multiple baculovirus IAP repeat (BIR) domains, but this gene encodes proteins with only a single BIR domain. The encoded proteins also lack a C-terminus RING finger domain. In humans, gene expression is high during fetal development and in most tumors yet low in adult tissues. Antisense transcripts have been identified in human that regulate this gene's expression. At least three transcript variants encoding distinct isoforms have been found for this gene, although at least one of these transcript variants is a nonsense-mediated decay (NMD) candidate. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (3), also known as survivin121, uses an alternate splice site in the 3' coding region, compared to variant 1, that results in a frameshift. It encodes isoform 3 which has a shorter and distinct C-terminus compared to isoform 1.