

## Product datasheet for **SC301618**

### **BIRC5 (NM\_001012271) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	BIRC5 (NM_001012271) Human Untagged Clone
Tag:	Tag Free
Symbol:	BIRC5
Synonyms:	API4; EPR-1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	<p>&gt;OriGene ORF sequence for NM_001012271 edited</p> <pre> ATGGGTGCCCCGACGTTGCCCCCTGCCTGGCAGCCCTTTCTCAAGGACCACCGCATCTCT ACATTCAAGAACTGGCCCTTCTTGAGGGCTGCGCCTGCACCCCGAGCGGATGGCCGAG GCTGGCTTCATCCACTGCCCCACTGAGAACGAGCCAGACTTGGCCCAAGTGTTCCTTCTGC TTCAAGGAGCTGGAAGGCTGGGAGCCAGATGACGACCCCATTTGGGCCGGGACGGTGGCT TACGCCTGTAATACCAGCACTTTGGGAGGCCGAGGCGGGCGGATCACGAGAGAGGAACAT AAAAAGCATTTCGTCGGTTGCGCTTTCTTTCTGTCAAGAAGCAGTTTGAAGAATTAACC CTTGGTGAATTTTGAAGTGGACAGAGAAAGAGCCAAGAACAAATTGCAAAGGAAACC AACAATAAGAAGAAAGAAATTTGAGGAACTGCGGAGAAAGTGCGCCGTGCCATCGAGCAG CTGGCTGCCATGGATTGA </pre>
Restriction Sites:	Please inquire
ACCN:	NM_001012271
Insert Size:	3000 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	ORF was fully sequenced and it matches with that of NM_001012271.1.
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).


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<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_001012271.1, NP_001012271.1</u>
<b>RefSeq Size:</b>	2724 bp
<b>RefSeq ORF:</b>	498 bp
<b>Locus ID:</b>	332
<b>UniProt ID:</b>	<u>O15392</u>
<b>Cytogenetics:</b>	17q25.3
<b>Protein Families:</b>	Druggable Genome, Stem cell - Pluripotency
<b>Protein Pathways:</b>	Colorectal cancer, Pathways in cancer
<b>Gene Summary:</b>	<p>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. Gene expression is high during fetal development and in most tumors, yet low in adult tissues. Alternatively spliced transcript variants encoding distinct isoforms have been found for this gene. [provided by RefSeq, Jun 2011]</p> <p>Transcript Variant: This variant (3), also known as survivin-2B, includes an alternate in-frame segment, compared to variant 1, resulting in a longer protein (isoform 3) that has a distinct sequence when it is compared to isoform 1.</p>