

Product datasheet for **RG205935**

BIRC5 (NM_001168) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: BIRC5 (NM_001168) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: BIRC5
Synonyms: API4; EPR-1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG205935 representing NM_001168
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGGTGCCCCGACGTTGCCCTGCCTGGCAGCCCTTTCTCAAGGACCACCGCATCTCTACATTCAAGA
 ACTGGCCCTTCTTGAGGGCTGCGCTGCACCCCGAGCGGATGGCCGAGGCTGGCTTCATCCACTGCC
 CACTGAGAACGAGCCAGACTTGGCCAGTGTTCCTTCTGCTTCAAGGAGCTGGAAGGCTGGGAGCCAGAT
 GACGACCCATAGAGGAACATAAAAAGCATTTCGTCGGTTGCGCTTTCCTTCTGTCAAGAAGCAGTTTG
 AAGAATTAACCCTTGGTGAATTTTGAAGTGGACAGAGAAAGCAAGAACAATTGCAAAGGAAAC
 CAACAATAAGAAGAAAGAATTTGAGGAACTGCGAAGAAAGTGGCCGTGCCATCGAGCAGCTGGCTGCC
 ATGGAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG205935 representing NM_001168
 Red=Cloning site Green=Tags(s)

MGAPTLPPAWQPFLKDHRISTFKNWPFLGCACTPERMAEAGFIHCPTENEPDLAQCFKFELEGWEPD
 DDPIEEHKKHSSGCAFLSVKKQFEELTLGEFLKLDREKAKNKIAKETNNKKKEFEETAKKVRRAIEQLAA
 MD

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_001168

ORF Size: 426 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 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.

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_001168.1](#)

RefSeq Size: 2655 bp

RefSeq ORF: 429 bp

Locus ID: 332

UniProt ID: [O15392](#)

Cytogenetics: 17q25.3

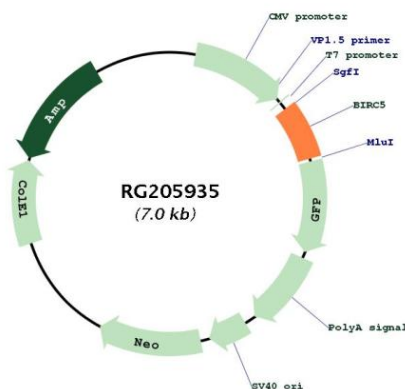
Domains: BIR

Protein Families: Druggable Genome, Stem cell - Pluripotency

Protein Pathways: Colorectal cancer, Pathways in cancer

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. 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]

Product images:



Circular map for RG205935