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Product datasheet for MC219489

Birc3 (NM_007464) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Birc3 (NM_007464) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Birc3
Synonyms:	Api1; Api2; AW107670; Birc2; C-IAP2; cIAP-1; cIAP-2; cIAP1; cIAP2; HIAP2; IAP1; IAP2; MIAP1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

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Fully Sequenced ORF:

>MC219489 representing NM_007464
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAACATGGTTCAAGACAGCGCCTTTCTAGCCAAGCTGATGAAGAGTGCTGACACCTTTGAGTTGAAGT
ATGACTTTTCCTGTGAGCTGTACCGATTGTCCACGTATTCAGCTTTTCCCAGGGGAGTTCCTGTGTCAGA
AAGGAGTCTGGCTCGTGCTGGCTTTTACTACACTGGTGCCAATGACAAGGTCAAGTGCTTCTGCTGTGGC
CTGATGCTAGACAACTGGAAACAAGGGGACAGTCCCATGGAGAAGCACAGAAAGTTGTACCCCAGCTGCA
ACTTTGTACAGACTTTGAATCCAGCCAACAGTCTGGAAGCTAGTCCTCGGCCTTCTCTTCCTTCCACGGC
GATGAGCACCATGCCTTTGAGCTTTGCAAGTTCTGAGAATACTGGCTATTTCAGTGGCTCTTACTCGAGC
TTTCCCTCAGACCCTGTGAACTTCCGAGCAAATCAAGATTGTCCTGCTTTGAGCACAAGTCCCTACCACT
TTGCAATGAACACAGAGAAGGCCAGATTACTCACCTATGAAACATGGCCATTGTCTTTTCTGTCACCAGC
AAAGCTGGCCAAAGCAGGCTTCTACTACATAGGACCTGGAGATAGAGTGGCCTGCTTTGCGTGCGATGGG
AAACTGAGCAACTGGGAACGTAAGGATGATGCTATGTCAGAGCACCAGAGGCATTTCCCCAGCTGTCCGT
TCTTAAAAGACTTGGGTCAGTCTGCTTCGAGATACACTGTCTCTAACCTGAGCATGCAGACACACGCAGC
CCGTATTAGAACATTCTCTAACTGGCCTTCTAGTGCACTAGTTCATTCCCAGGAACTTGCAAGTGCGGGC
TTTTATTATACAGGACACAGTGATGATGTCAAGTGTTTTTGCTGTGATGGTGGGCTGAGGTGCTGGGAAT
CTGGAGATGACCCCTGGGTGGAACATGCCAAGTGGTTTCCAAGGTGTGAGTACTTGCTCAGAATCAAAGG
CCAAGAATTTGTCAGCCAAGTTCAAGCTGGCTATCCTCATCTACTTGAGCAGCTATTATCTACGTCAGAC
TCCCCAGAAGATGAGAATGCAGACGCAGCAATCGTGCATTTTGGCCCTGGAGAAAGTTCGGAAGATGTCG
TCATGATGAGCACGCCTGTGGTTAAAGCAGCCTTGGAAATGGGCTTCAGTAGGAGCCTGGTGAGACAGAC
GGTTCAGTGGCAGATCCTGGCCACTGGTGAGAACTACAGGACCGTCAGTGACCTCGTTATAGGCTTACTC
GATGCAGAAGACGAGATGAGAGAGGAGCAGATGGAGCAGGCGGCCGAGGAGGAGGAGTCAGATGATCTAG
CACTAATCCGGAAGAACAAAATGGTGCTTTTCCAACATTTGACGTGTGTGACACCAATGCTGTATTGCCT
CCTAAGTGCAAGGGCCATCACTGAACAGGAGTGCAATGCTGTGAAACAGAAACCACACACCTTACAAGCA
AGCACACTGATTGATACTGTGTTAGCAAAAGGAAACACTGCAGCAACCTCATTCAGAAACTCCCTTCGGG
AAATTGACCCTGCGTTATACAGAGATATATTTGTGCAACAGGACATTAGGAGTCTTCCCACAGATGACAT
TGCAGCTCTACCAATGGAAGAACAGTTGCGGAAACTCCAGGAGGAAAGAATGTGTAAAGTGTGTATGGAC
CGAGAGGTATCCATCGTGTTCATTCCCTGTGGCCATCTGGTCGTGTGCAAAGACTGCGCTCCCTCTCTGA
GGAAGTGTCCCATCTGTAGAGGGACCATCAAGGGCACAGTGCGCACATTTCTCTCCTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_007464

Insert Size: 1809 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).

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_007464.3, NP_031490.2
RefSeq Size:	2820 bp
RefSeq ORF:	1809 bp
Locus ID:	11796
UniProt ID:	O08863
Cytogenetics:	9 A1
Gene Summary:	Multi-functional protein which regulates not only caspases and apoptosis, but also modulates inflammatory signaling and immunity, mitogenic kinase signaling and cell proliferation, as well as cell invasion and metastasis. Acts as an E3 ubiquitin-protein ligase regulating NF-kappa-B signaling and regulates both canonical and non-canonical NF-kappa-B signaling by acting in opposite directions: acts as a positive regulator of the canonical pathway and suppresses constitutive activation of non-canonical NF-kappa-B signaling. The target proteins for its E3 ubiquitin-protein ligase activity include: RIPK1, RIPK2, RIPK3, RIPK4, CASP3, CASP7, CASP8, IKBKE, TRAF1, and BCL10. Acts as an important regulator of innate immune signaling via regulation of Toll-like receptors (TLRs), Nodlike receptors (NLRs) and RIG-I like receptors (RLRs), collectively referred to as pattern recognition receptors (PRRs). Protects cells from spontaneous formation of the ripoptosome, a large multi-protein complex that has the capability to kill cancer cells in a caspase-dependent and caspase-independent manner. Suppresses ripoptosome formation by ubiquitinating RIPK1 and CASP8.[UniProtKB/Swiss-Prot Function]