

## Product datasheet for **MG205838**

### **Birc3 (BC011338) Mouse Tagged ORF Clone**

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids   |
| Product Name:             | Birc3 (BC011338) Mouse Tagged ORF Clone   |
| Tag:                      | TurboGFP  |
| Symbol:                   | Birc3   |
| Synonyms:                 | IAP1, MIAP1, Birc2, cIAP1, cIAP-1, MIHB, HIAP2, Api2, IAP2, MIHC, MIAP2, RNF49, cIAP2, cIAP-2 |
| Mammalian Cell Selection: | Neomycin  |
| Vector:                   | pCMV6-AC-GFP (PS100010)   |
| E. coli Selection:        | Ampicillin (100 ug/mL)  |
| ORF Nucleotide Sequence:  | >MG205838 representing BC011338<br>Red=Cloning site Blue=ORF Green=Tags(s)                    |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAACATGGTTCAAGACAGTGCCTTTCTAGCCAAGCTGATGAAGAGTGCTGACACCTTTGAGTTGAAGT  
ATGACTTTTCCTGTGAGCTGTACCGATTGTCCACATATTCAGCTTTTCCAGGGGAGTTCCTGTGCAGA  
AAGGAGTCTGGCTCGTGTGGCTTTTACTACACTGGTGTCAATGACAAGTCAAGTGCTTCTGCTGTGGC  
CTAATGCTAGACAACCTGGAACAAGGGGGCAGTCCCATGGAGAAGCACAGAAAGTTGACCCAGCTGCA  
ACTTTGTACAGACTTTGAATCCAGCCAACAGTCTGGAAGCTAGTCTCGGCCTTCTTCTCCTCCACGGC  
GATGAGCACCATGCCTTTGAGCTTTGCAAGTCTGAGAACACTGGCTATTTTCAGTGGCTCTTACTCGAGC  
TTTCCCTCAGACCCTGTGAACCTCCGAGCAAATCAAGATTGTCCTGCTTTGAGCAACAAGTCCCTACCACT  
TTGCAATGAACACAGAGAAGGCCAGATTACTCACCTATGAAACATGGCCATTGTCTTTTCTGTCACCAGC  
AAAGCTGGCCAAAGCAGGCTTCTACTACATAGGACCTGGAGATAGAGTGGCCTGCTTTGCGTGCGATGGG  
AAACTGAGCAACTGGGAACGTAAGGATGATGCTATGTCAGAGCACCAGAGGCATTTCCCAAGTGCCTG  
TCTTAAAAGACTTGGGTCAGTCTGCTTCGAGATACACTGTCTCTAACCTGAGCATGCAGACACACGCAGC  
CCGATTAGAACATTCTAACTGGCCTTCTAGTGCAC TAGTTCATTCCAGAACTTGAAGTGCAGGCG  
TTTTATTATACAGGACACAGTGTATGATGTCAGTGTGTTTGTCTGTGATGGTGGGCTGAGGTGCTGGAA  
CTGGAGATGACCCCTGGGTGGAACATGCCAAGTGGTTTCCAAGGTGTGAGTACTTGCTCAGAATCAAAGG  
CCAAGAATTTGTAGCCAAGTTCAGCTGGCTATCCTCATCTACTTGAGCAGCTATTATCTACGTGAGC  
TCCCAGAAGATGAGAATGCAGACGCAGCAAGTATGTATAATAATCATAATTCCTGCATTACACTGCTCC  
GTTTTGCA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

**Protein Sequence:** >MG205838 representing BC011338  
 Red=Cloning site Green=Tags(s)

MNMVQDSAFLAKLMKSADTFELKYDFSCELYRLSTYSAFPGRGVPVSESLARAGFYTTGVNDKVKCFCCG  
 LMLDNWKQGGSPMEKHRKLYPSCNFVQTLNPANSLEASPRPSLPSTAMSTMPLSFASSENTGYFSGSYSS  
 FPSDPVNFNANQDCPALSTSPYHFAMNTEKARLLTYETWPLSFLSPAKLAKAGFYIIGPDRVACFACDG  
 KLSNWERKDDAMSEHQRHFPSCPFKLDLQGSASRYTVSNLSMQTHAARIRTFSNWPSSALVHSQELASAG  
 FYTGHSDDVKCFCCDGLRCWESGDDPWVEHAKWFPCEYLLRIKQGEFVSQVQAGYPHLLLEQLLSTSD  
 SPEDENADAASMYNNHNSCITLLRFA

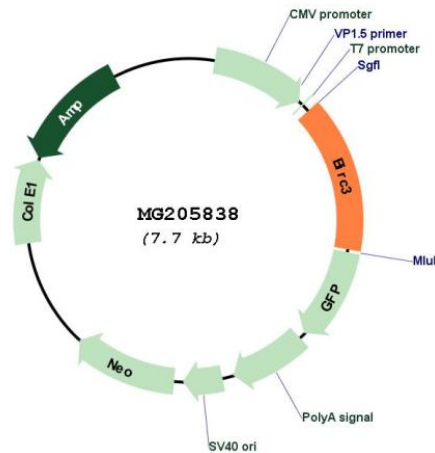
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** BC011338

|                               |   |
|-------------------------------|---|
| <b>ORF Size:</b>              | 1128 bp   |
| <b>OTI Disclaimer:</b>        | 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>OTI Annotation:</b>        | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.  |
| <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="#">BC011338.1</a>  |
| <b>RefSeq Size:</b>           | 2979 bp   |
| <b>RefSeq ORF:</b>            | 1130 bp   |
| <b>Locus ID:</b>              | 11796   |
| <b>Cytogenetics:</b>          | 9 A1  |
| <b>Gene Summary:</b>          | 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] |