

Product datasheet for **MG221467**

Birc7 (NM_001163247) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Birc7 (NM_001163247) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Birc7
Synonyms: E130019N06; KIAP; Livin; ML-IAP
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG221467 representing NM_001163247
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGTTCTCACCTGCAGACTTATTCAGAGCTGCTGTCTTTTCCATGGGGCCTGAGAGTAGGGCCAGGGACT
CGGTCCGTGGCCAGAATAAGCCACAGGGAAGATGGCAGTGGCCGCACACAGGAACAGGATAAACCCCA
CTGTCCGTGAACCATGTCCTGGCCAGGACTGCCTAGATGGGCAGATCTTAGGCCAGCTTCGGCCTCTG
TCAGAAGAGGAAGAATCCTCTGGGGCTGCCTTCCTTGGGGAGCCTGCCTTCCTGAGATGGACTCAGAGG
ATCTCCGGCTAGCCTCCTTCTACGACTGGCCATCTACTGCAGGGATTCAGCCTGAGCCATTGGCTGCTGC
TGGGTTCTTCCACACAGGCCAGCAGGACAAGGTGAGATGTTTCTTCTGCTATGGGGTCTACAGAGCTGG
GAGCGTGGGGATGACCCCTGGACAGAGCATGCCCGATGGTTTCCAGGTGTCAGTTCCCTGCTACGGTCAA
AAGGAAGGGACTTTGTGGAAAGAATCCAGACCTACACCCCTTTGCTGGGATCCTGGGATCAGCGAGAAGA
ACCAGAAGATGCAGTCTCTGCCACTCCCTCAGCTCCTGCCATGGAAGCCCTGAGTTACTCAGATCCAGA
AGAGAGACCCAGCCTGAAGATGTCAGTGAGCCAGGAGCCAAGGATGTTCCAGGAACAGCTGCGACAGCTGC
AGGAAGAGAGGAGATGCAAGGTGTCCTGGACCGAGCCGCTCCATAGTCTTCGTGCCCTGTGGCCACTT
CGTCTGCACCGAGTGTCTCCCAACCTGCAGCTGTGCCATCTGCAGGGTGCCTATCTGTAGCTGTGTA
CGCACATTCTGTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG221467 representing NM_001163247
 Red=Cloning site Green=Tags(s)

MFSPADLFRAAVFSMPESRARDSVRGPELSHREDGSGRTQEQDKPHPCPNHVLGQDCLDGQILGQLRPL
 S E E E E S S G A A F L G E P A F P E M D S E D L R L A S F Y D W P S T A G I Q P E P L A A A G F F H T G Q Q D K V R C F F C Y G G L Q S W
 E R G D D P W T E H A R W F P R C Q F L L R S K G R D F V E R I Q T Y T P L L G S W D Q R E E P E D A V S A T P S A P A H G S P E L L R S R
 R E T Q P E D V S E P G A K D V Q E Q L R Q L Q E E R R C K V C L D R A V S I V F V P C G H F V C T E C A P N L Q L C P I C R V P I C S C V
 R T F L S

TRTRPLE - GFP Tag - V

Restriction Sites:

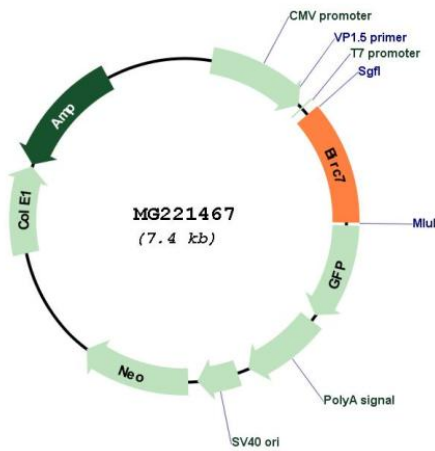
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_001163247

ORF Size: 855 bp

OTI Disclaimer:	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:	<ol style="list-style-type: none">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_001163247.1 , NP_001156719.1
RefSeq Size:	1178 bp
RefSeq ORF:	858 bp
Locus ID:	329581
UniProt ID:	A2AWP0
Cytogenetics:	2 H4
Gene Summary:	Apoptotic regulator capable of exerting proapoptotic and anti-apoptotic activities and plays crucial roles in apoptosis, cell proliferation, and cell cycle control. Its anti-apoptotic activity is mediated through the inhibition of caspase-3, -7, and -9, as well as by its E3 ubiquitin-protein ligase activity. As it is a weak caspase inhibitor, its anti-apoptotic activity is thought to be due to its ability to ubiquitinate DIABLO/SMAC targeting it for degradation thereby promoting cell survival. May contribute to caspase inhibition, by blocking the ability of DIABLO/SMAC to disrupt XIAP/BIRC4-caspase interactions. Protects against apoptosis induced by TNF or by chemical agents such as adriamycin, etoposide or staurosporine. Suppression of apoptosis is mediated by activation of MAPK8/JNK1, and possibly also of MAPK9/JNK2. This activation depends on TAB1 and NR2C2/TAK1.[UniProtKB/Swiss-Prot Function]