

Product datasheet for **MG202338**

Bok (NM_016778) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Bok (NM_016778) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Bok
Synonyms:	matador; mtd
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG202338 representing NM_016778 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGGTGCTGCGGCGCTCTTCTGTCTTTGCAGCGGAGATCATGGACGCCTTTGATCGCTCGCCACAG
ACAAGGAGCTGGTGGCCAGGCTAAGGCACTAGGCCGGGAGTACGTGCACGCGCGCTTTTGCAGCGCGG
CCTCTCCTGGAGCGCTCCAGAGCGTGCCTCGCTGCCCTGGAGGACGCTTGGCAGAGGTGTGCACAGTG
CTGCTGCGCTTGGGAGATGAGCTGGAGCAGATCCGTCCCAGCGTATACCGAACGTGGCCCGGCAGCTGC
ACATCCCCCTGCAGTCGGAGCCTGTGGTACGGATGCCTTCTGTCAGTGGCAGGCCACATCTTCTCAGC
AGGTATCACATGGGGCAAGGTAGTGTCCCTGTATTCCGTGGCCGCGGGGCTAGCGGTGGACTGTGTCCGG
CAGGCTCAGCCTGCCATGGTTTCATGCCCTGGTTGACTGCCTGGGGGAATTTGTACGCAAGACCTTGCTA
CCTGGCTTCGGAGGCGTGGCGGATGGACGGATGTCTCAAGTGTGTGGTACGACAGATCCTGGCTTCCG
CTCCCAGTGGCTCGTGGCCACGCTCTGCAGCTTTGGCCGCTTCTGAAGGCAGCATTCTTCTGTTGTTG
CCAGAGAGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG202338 representing NM_016778
 Red=Cloning site Green=Tags(s)

MEVLRSSVFAAEIMDAFDRSPTDKELVAQAKALGREYVHARLLRAGLSWSAPERASPAPGGRLAEVCTV
 LLRLGDELEQIRPSVYRNVARQLHIPLQSEPVVTD AFLAVAGHIF SAGITWGKVVSLYSVAAGLAVDCVR
 QAQPAMVHALVDCLGEFVRKTLATWLRRRGGWTDV LKCVVSTDPGFRSHLVATLCSFGRFLKAAFFLLL
 PER

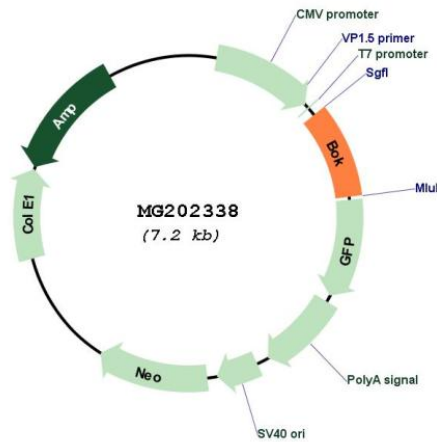
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_016778

ORF Size: 639 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_016778.2 , NP_058058.1
RefSeq Size:	1432 bp
RefSeq ORF:	642 bp
Locus ID:	51800
UniProt ID:	O35425
Cytogenetics:	1 D

Gene Summary:

Apoptosis regulator that functions through different apoptotic signaling pathways (PubMed:23429263, PubMed:26015568, PubMed:26949185, PubMed:27098698, PubMed:9535847). Plays a roles as pro-apoptotic protein that positively regulates intrinsic apoptotic process in a BAX- and BAK1-dependent manner or in a BAX- and BAK1-independent manner (PubMed:23429263, PubMed:26015568, PubMed:26949185). In response to endoplasmic reticulum stress promotes mitochondrial apoptosis through downstream BAX/BAK1 activation and positive regulation of PERK-mediated unfolded protein response (PubMed:26015568). Activates apoptosis independently of heterodimerization with survival-promoting BCL2 and BCL2L1 through induction of mitochondrial outer membrane permeabilization, in a BAX- and BAK1-independent manner, in response to inhibition of ERAD-proteasome degradation system, resulting in cytochrome c release (PubMed:9535847, PubMed:26949185). In response to DNA damage, mediates intrinsic apoptotic process in a TP53-dependent manner. Plays a role in granulosa cell apoptosis by CASP3 activation (By similarity). Plays a roles as anti-apoptotic protein during neuronal apoptotic process, by negatively regulating poly ADP-ribose polymerase-dependent cell death through regulation of neuronal calcium homeostasis and mitochondrial bioenergetics in response to NMDA excitation (PubMed:27098698). In addition to its role in apoptosis, may regulate trophoblast cell proliferation during the early stages of placental development, by acting on G1/S transition through regulation of CCNE1 expression. May also play a role as an inducer of autophagy by disrupting interaction between MCL1 and BECN1 (By similarity). [UniProtKB/Swiss-Prot Function]