

Product datasheet for **MG202899**

Diablo (BC054109) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Diablo (BC054109) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Diablo
Synonyms:	0610041G12Rik; 1700006L01Rik; AU040403; Smac
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG202899 representing BC054109 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGCTCTGAGAAGTTGGGTGACTCGGAGCGTCTGCTCTCTGTTTCAGGTACAGACAGCGTTTTCTG
TCTTGGCTAACTAAGAAACGCTGTTTCTCAGAATTGATAAAACCATGGCACAAAAGTGTGTTGACTGG
ATTTGGCATGACTGTGTGCGTTTCTATTGCTCAGAAATCGGAGCCTCAGTCTCTCAGTAACGAAGCA
TTGACGAGGAGGGCTGTGTCTTTGGTAACAGATAGCACCTTACCTTTCTGTCTCAAACACCTACGCGC
TGATTGAAGCAATCACCGAGTATACTAAGGCTGTTTACACGTTAGTGTCTCTGTACCGACAATATAAAG
TTTACTTGGGAAGATGAATTCAGGAGGAAGATGAGGTGTGCCAGGTAATTATAGGAGCCAGAGTTGAG
ATGACTTCAAAACAGCAGGAATATTTGAAGTTGGAGACCACTTGATGACAGCGGTTGGCCTTTTCAGAGA
TGGCTGCTGAGGCTGCCTATCAAAGTGGAGCAGATCAGGCCTCCATAACTGCCAGGAATCACATCCAGTT
GGTGAAGTACAGGTACAGGAGGTGCGCCAGCTCTCCAGAAGGCAGAAACCAAGTTGGCTGAAGCACAG
ACAAAAGAGCTGCACCAGAAAGCACAGGAAGTGAAGTATGAGGGGGCTGACCAGGAAGAGGAGGCCTACC
TGGCTGAAGAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG202899 representing BC054109
 Red=Cloning site Green=Tags(s)

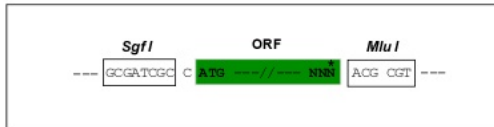
MAALRSWVTRSVCSLFRYRQRFVPLANSKKRCFSELIKPWHKTVLTGFGMTLCAVPIAQKSEPQSL SNEA
 LTRRAVSLVTDSTSTFLSQTYYALIEAITEYTKAVYTLVSLYRQYTSLLGKMNSQEEDVWQVIIGARVE
 MTSKQQEYLKLETTWMTAVGLSEMAAEAAAYQTGADQASITARNHIQLVKSQVQEVRLSQKAETKLAEAQ
 TKELHQKAQEVSDGADQEEEEAYLRED

TRTRPLE - GFP Tag - V

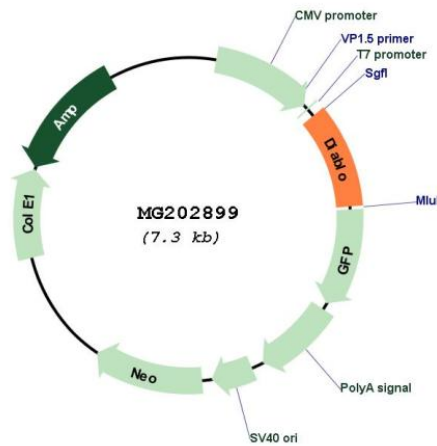
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: BC054109

ORF Size: 713 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:	BC054109 , AAH54109
RefSeq Size:	1639 bp
RefSeq ORF:	713 bp
Locus ID:	66593
Cytogenetics:	5 F
Gene Summary:	Promotes apoptosis by activating caspases in the cytochrome c/Apaf-1/caspase-9 pathway. Acts by opposing the inhibitory activity of inhibitor of apoptosis proteins (IAP). Inhibits the activity of BIRC6/bruce by inhibiting its binding to caspases (By similarity).[UniProtKB/Swiss-Prot Function]