

Product datasheet for **MG203508**

Apool (NM_026565) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Apool (NM_026565) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Apool
Synonyms: 6720473G16Rik; 9430083G14Rik; E130106L15Rik
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG203508 representing NM_026565
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGGCCTTTAGGATGGGAAAGTTGACAACCATACCTGCAGGTCTGATATATGCATCTATAAATGTGC
 GTCTTGCCAAAGAAGAGGAACCCAAAAAGCAGCTAGTGAGACCGGACCAGCTCCCCATATACTGCACC
 ACCCTCCATTCTAAATATGTTGAAGAAGCAGCCTGGTAATTTACAAAGGGGCTTTGCATCCATCCGTA
 ACAACCGTGATTATATTGGCTGGTGAAGAGCATTATCTCTTTATGAAGAATGGGTTATGGATACAG
 TACAGTTTGAAAAGATGCATATGTCTATCTGAAGAATCCTCCGCAAGATTTTCTCCCAAATGGGAGT
 GATTACAGCTTCGGGACTGGCAGTTTGTCTTCAGCAAGAAAAGTTCCAGGTTTAAAGAAGATTGCTTAT
 CCACTAGGACTGGCCACATTAGGAGCGACTGTTTGTACCCAGCTCAGTCAGTAATAATTGCAAAGATAA
 CTGGGAAAAAGGCATATGCTACAAGCCAGCAAATTTTCAAGCCATTAAGTCATTGTGGACACAAAAAG
 TGAAAACGAATCACTCCCTGAACCAAAGGAAGAAAGCAAGGAAGGAAGGTCTGATGAAATCCATGCCAGC
 TTGCCTGACCTGAAACATTCAAGTGTCTTTGCCAAAAGAACTTGCCTCTGCAACAGTGATTAATCAGAAT
 CTACCTCAGGTAACACAGTTCATTCTGACCCCAAGCTCATGGATCATGGCAGTCTCATCCAGATGA
 TAAAGATATGTACAGCACTAGAAGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence: >MG203508 representing NM_026565
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MAAFRMGKLTTPAGLIYASINVRLAKEEPEPKQLVPRDQLPIYTAPPLHSKYVEEQPNLQRGFASIRT
 TTYYYIGWCKSIYLFMKNVMDTVQFGKDAYVYLNKPPQDFLPKMGVITASGLAGLLSARKGSRFKKIAY
 PLGLATLGATVCYPAQSVIIAKITGKKAYATSQQIFQAIKSLWTQKSENEISLPEPKESKEGRSDEIHAS
 LPDLKHSVSLPKELASATVIKSESTSGTTQFIPDPKLMDHGQSHPPDDKDMYSTRS

TRTRPLE - GFP Tag - V

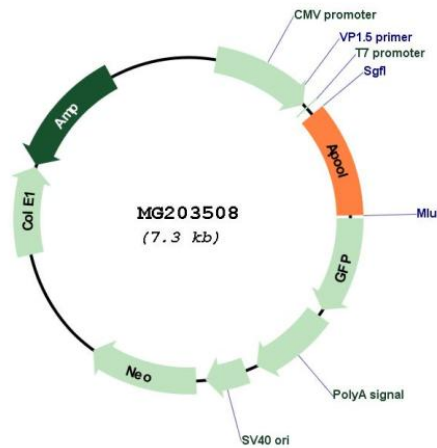
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_026565

ORF Size: 795 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_026565.2 , NP_080841.1
RefSeq Size:	1001 bp
RefSeq ORF:	798 bp
Locus ID:	68117
UniProt ID:	Q78IK4
Cytogenetics:	X E1
Gene Summary:	Component of the MICOS complex, a large protein complex of the mitochondrial inner membrane that plays crucial roles in the maintenance of crista junctions, inner membrane architecture, and formation of contact sites to the outer membrane. Specifically binds to cardiolipin (in vitro) but not to the precursor lipid phosphatidylglycerol. Plays a crucial role in crista junction formation and mitochondrial function.[UniProtKB/Swiss-Prot Function]