

Product datasheet for **MG206262**

Mak (BC050009) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mak (BC050009) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Mak
Synonyms:	A930010O05Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG206262 representing BC050009 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAACCGATACACAACCATGAAGCAGCTGGGAGACGGCACGTATGGGAGTGTACTGATGGCAAGAGCA
ATGAGTCTGGGGAGCTGGTGGCAATCAAGAGGATGAAGAGAAAGTTCTATTCTTGGGATGAGTGTATGAA
CTTGCGAGAAGTTAAGTCCCTGAAAAACTCAATCAGCCAATGTGATTAATACTAAAAGAAGTTATCAGA
GAGAATGACCATCTTTATTTGTATTTGAATATATGAAAGAAAACCTCTATCAGCTAATGAAAGACAGAA
ACAAAAGTTCCTGAGTCAGTCATCAGAAATATTATGTATCAGATACTACAGGGGCTGGCATTATCCA
TAAACACGGCTTTTTTTCACAGGGACATGAAACCTGAGAACTTGCTCTGCATGGGCCAGAGCTGGTGAAG
ATTGCTGATTTTGGACTTGCAAGAGAATTAAGATCACAGCCACCATATACTGACTATGTGTCTACCGAT
GGTACCGGGCTCCTGAAGTCTTACTAAGGTCTTCGGTGTACAGCTCTCCCATGAGCTGTGGGCCGTGGG
AAGTATAATGGCCGAGTTATATACATTTAGGCCGCTTTTCCCAGGGACAAGTGAAGTTGATGAGATCTTT
AAAATCTGCCAAGTGTTAGGGACTCCCAAGAAGAGTGACTGGCCGGAAGGATACCAGCTTGATCCTCCA
TGAACTTCGCTTTCCCAAGTGCATTCCCATCAACCTAAAACTCTCATTCCCAATGCCAGTAGCCGAGGC
CATCCAGCTCATGACAGAGATGCTGAACTGGGATCCAAAGAAGCGACCAACAGCAAGCCAGGCACTGAAA
CACCCATATTTCCAAGTCGGTCAGTACTGGGCTCTTCTGCACACCATCTGGATACAAAACAGACTTTAC
ACAAGCAGCTGCAGCCTCTGGAGCCAAAGCCATCTTCTCTGAACGGGATCCTAAGCCTTTGCCAAACAT
ACTTGATCAGCCTGCCGGCAGCCCCAGCCAAAACAGGGCCACCAACCACTGCAGACCATTAGCCACCA
CAGAACACAGTGACTCACCCACCCCAAAGCAGCAGGGTCAACAGAAACCACCAAAACCATGTTTCCAA
GTATCATCAAAACCATCCCAGTGGTGAGTAGCCAAGCCGATGCTTTAGATGACACGGACTGGTGCCTCT
GGGTAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG206262 representing BC050009
 Red=Cloning site Green=Tags(s)

MNRYTTMKQLGDGTYGSVLMGKSNESEGLVAIKRMKRKFYSWDECMNLREVKSLKKLNHANVIKLKEVIR
 ENDHLYFVFEYMKENLYQLMKDRNKLFPESVIRNIMYQILQGLAFIHKHGFFHRDMKPENLLCMGPPELVK
 IADFGFLARELRSQPPYTDYVSTRWYRAPEVLLRSSVYSSPIDVWAVGSIMAEIYFRPLFPGTSEVDEIF
 KICQVLGTPPKSDWPEGYQLASSMNFRRPQCIPINLKTLPNASSAEIQLMTEMLNWDPKKRPTASQALK
 HPYFQVGVQLGSSAHLDTKQTLHKQLQPLEPKPSSSERDPKPLPNILDQFAGQPQPKQGHQPLQTIQPP
 QNTVTHPPPKQQGHQKPPQTMFPSIIKTIPVVSSQADALDDTDWCTLGK

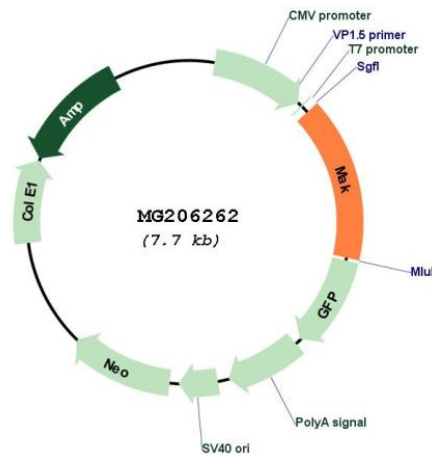
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: BC050009

ORF Size:	1199 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:	BC050009
RefSeq Size:	6818 bp
RefSeq ORF:	1199 bp
Locus ID:	17152
Cytogenetics:	13 20.25 cM
Gene Summary:	Essential for the regulation of ciliary length and required for the long-term survival of photoreceptors. Could have an important function in sensory cells and in spermatogenesis. May participate in signaling pathways used in visual and olfactory sensory transduction. Phosphorylates FZR1 in a cell cycle-dependent manner. Plays a role in the transcriptional coactivation of AR (By similarity).[UniProtKB/Swiss-Prot Function]