

## Product datasheet for **MR206262**

### Mak (BC050009) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Mak (BC050009) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mak
Synonyms:	A930010O05Rik
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR206262 representing BC050009 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGAACCGATACACAACCATGAAGCAGCTGGGAGACGGCACGTATGGGAGTGTACTGATGGCAAGAGCA  
ATGAGTCTGGGGAGCTGGTGGCAATCAAGAGGATGAAGAGAAAGTTCTATTCTTGGGATGAGTGTATGAA  
CTTGCGAGAAGTTAAGTCCCTGAAAAACTCAATCACCCAATGTGATTAAGTAACTAAAAGAAGTTATCAGA  
GAGAATGACCATCTTTATTTTGTATTTGAATATATGAAAGAAAACCTCTATCAGCTAATGAAAGACAGAA  
ACAAACTGTTCCCTGAGTCAGTCATCAGAAATATTATGTATCAGATACTACAGGGGCTGGCATTTATCCA  
TAAACACGGCTTTTTTTCACAGGGACATGAAACCTGAGAACTTGCTCTGCATGGGCCAGAGCTGGTGAAG  
ATTGCTGATTTTGGACTTGCAAGAGAATTAAGATCACAGCCACCATATACTGACTATGTGTCTACCGAT  
GGTACCGGGCTCCTGAAGTCTTACTAAGGTCTTCGGTGTACAGCTCTCCATTGACGTGTGGGCCGTGGG  
AAGTATAATGGCCGAGTTATATACATTTAGGCCGCTTTTCCAGGGACAAGTGAAGTTGATGAGATCTTT  
AAAATCTGCCAAGTGTAGGGACTCCCAAGAAGAGTACTGGCCGGAAGGATACCAGCTTGCATCTCCTCA  
TGAATTCGGCTTTCCCGAGTCATTCCCATCAACCTAAAACTCTCATTCCCAATGCCAGTAGCCGAGGC  
CATCCAGCTCATGACAGAGATGCTGAACTGGGATCCAAAGAAGCGACCAACAGCAAGCCAGGCACCTGAAA  
CACCCATATTTCCAAGTCGGTCAGTACTGGGCTCTTCTGCACACCATCTGGATACAAAACAGACTTTAC  
ACAAGCAGCTGCAGCCTCTGGAGCCAAAGCCATCTTCTCTGAACGGGATCCTAAGCCTTTGCCAAACAT  
ACTTGATCAGCCTGCCGGGCAGCCCCAGCCAAAACAGGGCCACCAACCACTGCAGACCATTAGCCACCA  
CAGAACACAGTGACTCACCCACCCCAAAGCAGCAGGGTACCAGAAAACCACCAAAACCATGTTTCCAA  
GTATCATCAAACCATCCAGTGGTGAGTAGCCAAGCCGATGCTTATAGATGACACGGACTGGTGCCTCT  
GGTAAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR206262 representing BC050009  
 Red=Cloning site Green=Tags(s)

MNRYTTMKQLGDGTYGSVLMGKSNESEGLVAIKRMKRKFYSWDECMNLREVKSLKKNHANVIKLKEVIR  
 ENDHLYFVFEYMKENLYQLMKDRNKLFPESVIRNIMYQILQGLAFIHKHGFHFRDMKPENLLCMGPPELVK  
 IADFGFLARELRSQPPYTDYVSTRWYRAPEVLLRSSVYSSPIDVWAVGSIMAEIYFRPLFPGTSEVDEIF  
 KICQVLGTPPKSDWPEGYQLASSMNFRRPQCIPINLKTLPNASSEAIQLMTEMLNWDPKKRPTASQALK  
 HPYFQVGVQLGSSAHLDTKQTLHKQLQPLEPKPSSSERDPKPLPNILDQFAGQPQPKQGHQPLQTIQPP  
 QNTVTHTPPKQQGHQKPPQTMFPSIIKTIPVVSQADALDDTDWCTLGK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

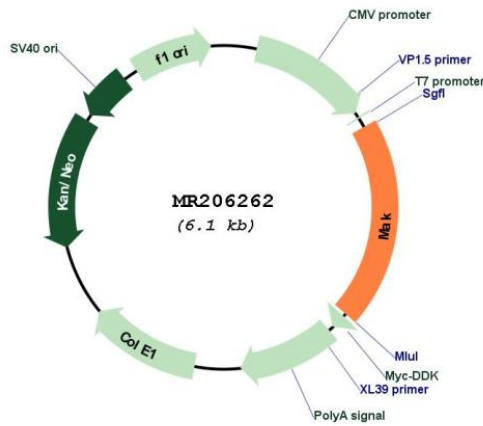
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:**

BC050009

<b>ORF Size:</b>	1197 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">BC050009</a>
<b>RefSeq Size:</b>	6818 bp
<b>RefSeq ORF:</b>	1199 bp
<b>Locus ID:</b>	17152
<b>Cytogenetics:</b>	13 20.25 cM
<b>MW:</b>	249.9 kDa
<b>Gene Summary:</b>	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]