

## Product datasheet for **MR219118**

### **Mak (NM\_008547) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Mak (NM_008547) 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



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**ORF Nucleotide Sequence:**

>MR219118 representing NM\_008547  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAACCGATACACAACCATGAAGCAGCTGGGAGACGGCACGTATGGGAGTGTACTGATGGCAAGAGCA  
 ATGAGTCTGGGGAGCTGGTGGCAATCAAGAGGATGAAGAGAAAGTTCTATTCTTGGGATGAGTGTATGAA  
 CTTGCGAGAAGTTAAGTCCCTGAAAAACTCAATCACGCCAATGTGATTAATACTAAAAAGATTATCAGA  
 GAGAATGACCATCTTTATTTGTATTTGAATATATGAAAGAAAACCTCTATCAGCTAATGAAAGACAGAA  
 ACAAACCTGTTCCCTGAGTCAGTCATCAGAAATATTATGTATCAGATACTACAGGGGCTGGCATTATCCA  
 TAAACACGGCTTTTTTACAGGGACATGAAACCTGAGAACTTGCCTGCATGGGCCAGAGCTGGTGAAG  
 ATTGCTGATTTGGACTTGAAGAGAATTAAGATCACAGCCACCATATACTGACTATGTGTCTACCAGAT  
 GGTACCGGGCTCCTGAAGTCTTACTAAGGTCTTCGGTGTACAGCTCTCCATTGACGTGTGGGCCGTGGG  
 AAGTATAATGGCCGAGTTATATACATTTAGGCCGCTTTTCCAGGGACAAGTGAAGTTGATGAGATCTTT  
 AAAATCTGCCAAGTGTTAGGGACTCCCAAGAAGAGTGACTGGCCGGAAGGATACCAAGCTTGCATCCCTCCA  
 TGAACCTCCGCTTTCCCAAGTGCATTCCCATCAACCTAAAACTCTCATTCCCAATGCCAGTAGCGAGGC  
 CATCCAGCTCATGACAGAGATGCTGAACTGGGATCCAAAGAAGCGACCAACAGCAAGCCAGGCACTGAAA  
 CACCCATATTTCCAAGTCGGTCAGGTAAGTGGGCTCTTCTGCACACCATCTGGATACAAAACAGACTTTAC  
 ACAAGCAGCTGCAGCCTCTGGAGCCAAAGCCATCTTCTCTGAACGGGATCCTAAGCCTTTGCCAAACAT  
 ACTTGATCAGCCTGCCGGGACAGCCAGCCAAAACAGGGCCCAACCACTGCAGACCATTACAGCCACCA  
 CAGAACACAGTACTCACCCACCCCAAGCAGCAGGGTACCAGAAAACCACCAAAACCATGTTTCCAA  
 GTATCATCAAAACCATCCCAAGTGAATTCAGTCAGCACCTGGGCCATAAGGGAGCCCGAGACGGTGGGG  
 TCAGACAGTCTTCAAGTCTGGAGACAGCTGTGACGACATTGAGGACGACTTAGGAGCCTCCCACTCCAAG  
 AAGCCAAGCATGGAAGCCTGCAAGGAGAAGAAGAAGGAGTCTCCATTTCCGTTTCCAGATTCAGGACTCC  
 CAGTCTCCAATCACTTTAAGGGGAAAAATAGGAATTTACATGCATCTGTTTCTTAAAATCTGATCCAAA  
 CTTGTCAACTGCTTCAACGGCTAAGCAGTACTATTTGAAACAATCAAGATACCTTCCAGGTGTGAACCCC  
 AAGAAATGTGTCTTTGGTAGCTGGAGGCAAGGATATAAATTCACACTCTTGAATAATCAGCTATTTCCCTA  
 AGTCGCTGGGATCCATGGGGCGGACCTTTCTTCAAGAGGAGTAACGCAGCAGGAAACCTTGGGAGCTA  
 CACCATTACAACCAGACGGGATACATGCCTTCTTCTCAAGAAAGAAGTGGGATCAGCTGGCCAGAGG  
 ATCCAATTTGGCACCTTTAGGTGCGTTCGGCTTCGGACTATACCTGGAGCACAAAACCTGGACGAGGCCAGT  
 TTTCCGGGACGAACTTACAACCCACAGCCAAAATCTCAATATTGTGAACCGCACACAGCCAGTCCCTC  
 GGTACACGGGAGGACAGACTGGGTGGCTAAGTATGGAGGCCACCGG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR219118 representing NM\_008547  
 Red=Cloning site Green=Tags(s)

MNRYTTMKQLGDGTYGSVLMGKSNESEGLVAIKRMKRKFYSWDECMNLRVKSLLKLNHANVIKLKEVIR  
 ENDHLYFVFEYMKENLYQLMKDRNKLFPESVIRNIMYQILQGLAFIHKHGFHHRDMKPENLLCMGPPELVK  
 IADFGLARELRSQPPYTDYVSTRWYRAPEVLLRSSVYSSPIDVWAVGSIMAELYTFRPLFPGTSEVDEIF  
 KICQVLGTPKSDWPEGYQLASSMNFRRPQCIPINLKTLPNASSEAIQLMTEMLNWDPKRPTASQALK  
 HPYFQVGVQLGSSAHLDTKQTLHKQLQPLEPKPSSSERDPKPLPNILDQPAGQPQPKQGHQPLQTIQPP  
 QNTVTHPPPKQQGHQKPPQTMFPSIIKTIPVNSVSTLGHKGARRRWGQTVFKSGDSCDDIEDDLGASHSK  
 KPSMEACKKEKKKESPFRRPDSGLPVSNHFKGENRNLHASVSLKSDPNLSTASTAKQYYLKQSRYPGVNP  
 KNVSLVAGGKDINSHSWNNQLFPKSLGSMGADLSFKRSNAAGNLGSYTTYNQTYMPSFLKKEVGSAGQR  
 IQLAPLGASADYTWSTKTGRGQFSRGTYNPTAKNLIIVNRTQPVPSVHGRTDWWAKYGGHR

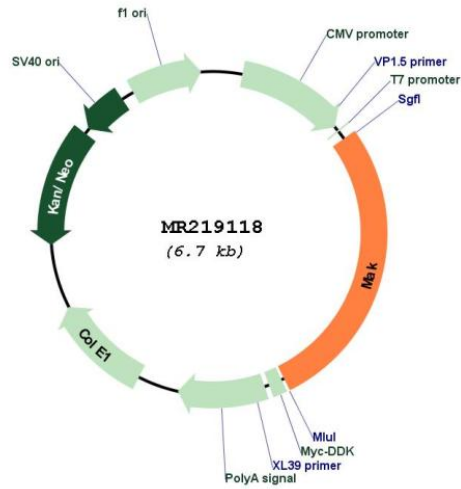
**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_008547

ORF Size: 1866 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="#">NM_008547.2</a> , <a href="#">NP_032573.2</a>
<b>RefSeq Size:</b>	3385 bp
<b>RefSeq ORF:</b>	1869 bp
<b>Locus ID:</b>	17152
<b>UniProt ID:</b>	<a href="#">Q04859</a>
<b>Cytogenetics:</b>	13 20.25 cM
<b>MW:</b>	70.5 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]