

## Product datasheet for **MR218502**

### **Mak (NM\_001145802) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Mak (NM_001145802) 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:**

>MR218502 representing NM\_001145802  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAACCGATACACAACCATGAAGCAGCTGGGAGACGGCACGTATGGGAGTGTACTGATGGCAAGAGCA  
 ATGAGTCTGGGGAGCTGGTGGCAATCAAGAGGATGAAGAGAAAGTTCTATTCTTGGGATGAGTGTATGAA  
 CTTGCGAGAAGTTAAGTCCCTGAAAAACTCAATCACGCCAATGTGATTAATACTAAAAAGATTATCAGA  
 GAGAATGACCATCTTTATTTGTATTTGAATATATGAAAGAAAACCTCTATCAGCTAATGAAAGACAGGG  
 ACATGAAACCTGAGAACTTGCTCTGCATGGGCCAGAGCTGGTGAAGATTGCTGATTTTGGACTTCAAG  
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 CTAAGGTCTTCGGTGTACAGCTCTCCATTGACGTGTGGCCGTGGGAAGTATAATGGCCGAGTTATATA  
 CATTTAGCCGCTTTTCCAGGGACAAGTGAAGTTGATGAGATCTTTAAAATCTGCCAAGTGTAGGGAC  
 TCCAAGAAGAGTGACTGGCCGGAAGGATACCAGCTTGCATCCTCCATGAACTTCGCTTTCCCCAGTGC  
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 GACGAACTACAACCCACAGCCAAAAATCTCAATATTGTGAACCGCACACAGCCAGTCCCTCGGTACA  
 CGGGAGGACAGACTGGTGGCTAAGTATGGAGGCCACCG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR218502 representing NM\_001145802  
 Red=Cloning site Green=Tags(s)

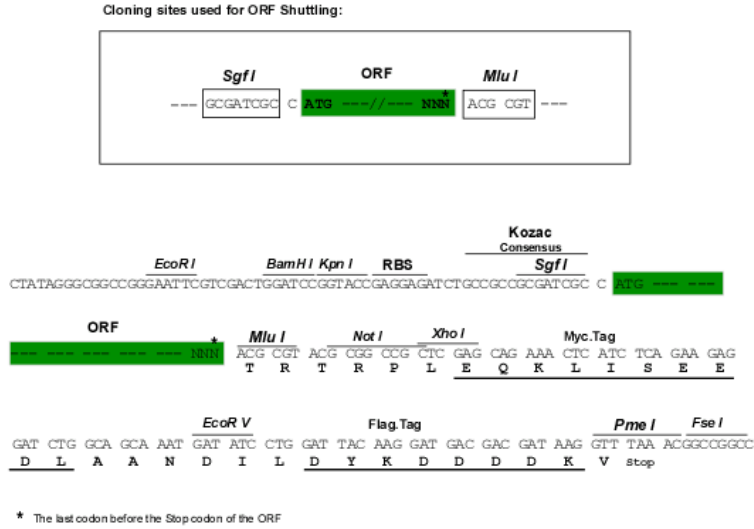
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 ENRNHLASVSLKSDPNLSTASTAKQYYLKQSRYPGVNPKNVSLVAGGKDINSHSWNNQLFPKSLGSMGA  
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**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

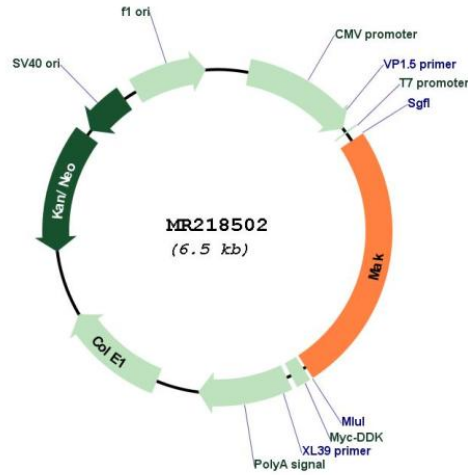
**Restriction Sites:**

SgfI-MluI

## Cloning Scheme:



## Plasmid Map:



<b>ACCN:</b>	NM_001145802
<b>ORF Size:</b>	1650 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_001145802.1</a> , <a href="#">NP_001139274.1</a>
<b>RefSeq Size:</b>	3274 bp
<b>RefSeq ORF:</b>	1653 bp
<b>Locus ID:</b>	17152
<b>UniProt ID:</b>	<a href="#">Q04859</a>
<b>Cytogenetics:</b>	13 20.25 cM
<b>MW:</b>	62.6 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]