

## Product datasheet for **MC219805**

### **Mak (NM\_008547) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Mak (NM_008547) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mak
Synonyms:	A930010O05Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC219805 representing NM\_008547  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAACCGATACACAACCATGAAGCAGCTGGGAGACGGCACGTATGGGAGTGTACTGATGGCAAGAGCA  
 ATGAGTCTGGGGAGCTGGTGGCAATCAAGAGGATGAAGAGAAAGTTCTATTCTTGGGATGAGTGTATGAA  
 CTTGCGAGAAGTTAAGTCCCTGAAAAAATCAATCACGCCAATGTGATTAATAAAGAAAGTTATCAGA  
 GAGAATGACCATCTTTATTTGTATTTGAATATATGAAAGAAAACCTCTATCAGCTAATGAAAGACAGAA  
 ACAAACCTGTTCCCTGAGTCAGTCATCAGAAATATTATGTATCAGATACTACAGGGGCTGGCATTATCCA  
 TAAACACGGCTTTTTTACAGGGACATGAAACCTGAGAACTTGCCTGCATGGGCCAGAGCTGGTGAAG  
 ATTGCTGATTTTGGACTTGAAGAGAATTAAGATCACAGCCACCATATACTGACTATGTGTCTACCAGAT  
 GGTACCGGGCTCCTGAAGTCTTACTAAGGTCTTCGGTGTACAGCTCTCCATTGACGTGTGGCCGTGGG  
 AAGTATAATGGCCGAGTTATATACATTTAGGCCGCTTTTCCAGGGACAAGTGAAGTTGATGAGATCTTT  
 AAAATCTGCCAAGTGTTAGGGACTCCCAAGAAGAGTGACTGGCCGGAAGGATACAGCTTGCATCCCTCCA  
 TGAACCTCCGCTTTCCCAAGTGCATTCCCATCAACCTAAAAACTCTATTCCCAATGCCAGTAGCGAGGC  
 CATCCAGCTCATGACAGAGATGCTGAACTGGGATCCAAAGAAGCGACCAACAGCAAGCCAGGCACTGAAA  
 CACCCATATTTCCAAGTCGGTCAGGTAAGTGGGCTCTTCTGCACACCATCTGGATACAAAACAGACTTTAC  
 ACAAGCAGCTGCAGCCTCTGGAGCCAAAGCCATCTTCTCTGAACGGGATCCTAAGCCTTTGCCAAACAT  
 ACTTGATCAGCCTGCCGGGCAGCCCCAGCCAAAACAGGGCCCAACCACTGCAGACCATTACAGCCACCA  
 CAGAACACAGTACTCACCCACCCCAAGCAGCAGGGTCACCAGAAAACCACCAAAACCATGTTTCCAA  
 GTATCATCAAAACCATCCAGTGAATTCAGTCAGCACCTGGGCCATAAGGGAGCCCGGAGACGGTGGGG  
 TCAGACAGTCTTCAAGTCTGGAGACAGCTGTGACGACATTGAGGACGACTTAGGAGCCTCCCACTCCAAG  
 AAGCCAAGCATGGAAGCCTGCAAGGAGAAGAAGAAGGAGTCTCCATTTCCGTTTCCAGATTCAGGACTCC  
 CAGTCTCCAATCACTTTAAGGGGAAAAATAGGAATTTACATGCATCTGTTTCTTAAAATCTGATCCAAA  
 CTTGTCAACTGCTTCAACGGCTAAGCAGTACTATTTGAAACAATCAAGATACCTTCCAGGTGTGAACCCC  
 AAGAAATGTGCTTTGGTAGCTGGAGGCAAGGATATAAATTCACACTCTTGAATAATCAGCTATTTCTTA  
 AGTCGCTGGGATCCATGGGGCGGACCTTTCTTCAAGAGGAGTAACGCAGCAGGAAACCTTGGGAGCTA  
 CACCATTACAACCAGACGGGATACATGCCTTCTTCTCAAGAAAGAAGTGGGATCAGCTGGCCAGAGG  
 ATCCAATTTGGCACCTTTAGGTGCGTTCGGCTTCGGACTATACCTGGAGCACAAAACCTGGACGAGGCCAGT  
 TTTCCGGGACGAACTTACAACCCACAGCCAAAATCTCAATATTGTGAACCGCACACAGCCAGTCCCTCT  
 GGTACACGGGAGGACAGACTGGGTGGCTAAGTATGGAGGCCACCGG**TAG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_008547
- Insert Size:** 1869 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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:**

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\\_008547.2](#), [NP\\_032573.2](#)

**RefSeq Size:** 3385 bp

**RefSeq ORF:** 1869 bp

**Locus ID:** 17152

**UniProt ID:** [Q04859](#)

**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]  
Transcript Variant: This variant (2) lacks a segment in the 5' UTR and has multiple differences in the CDS, compared to variant 1. The resulting protein (isoform 2) is shorter and lacks internal sequence segments when it is compared to isoform 2. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.