

## Product datasheet for **MC220065**

### **Mak (NM\_001145803) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Mak (NM_001145803) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mak
Synonyms:	A930010O05Rik
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC220065 representing NM\_001145803  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGAACCGATACACAACCATGAAGCAGCTGGGAGACGGCACGTATGGGAGTGTACTGATGGCAAGAGCA  
 ATGAGTCTGGGGAGCTGGTGGCAATCAAGAGGATGAAGAGAAAGTTCTATTCTTGGGATGAGTGTATGAA  
 CTTGCGAGAAGTTAAGTCCCTGAAAAACTCAATCACGCCAATGTGATTAATACTAAAAAGATTATCAGA  
 GAGAATGACCATCTTTATTTGTATTTGAATATATGAAAGAAAACCTCTATCAGCTAATGAAAGACAGAA  
 ACAAACCTGTTCCCTGAGTCAGTCATCAGAAATATTATGTATCAGATACTACAGGGGCTGGCATTTATCCA  
 TAAACACGGCTTTTTTTCACAGGGACATGAAACCTGAGAACTTGCCTGCATGGGCCAGAGCTGGTGAAG  
 ATTGCTGATTTTGGACTTGAAGAGAATTAAGATCACAGCCACCATATACTGACTATGTGTCTACCAGAT  
 GGTACCGGGCTCCTGAAGTCTTACTAAGGTCTTCGGTGTACAGCTCTCCATTGACGTGTGGGCCGTGGG  
 AAGTATAATGGCCGAGTTATATACATTTAGGCCGCTTTTCCAGGGACAAGTGAAGTTGATGAGATCTTT  
 AAAATCTGCCAAGTGTTAGGGACTCCCAAGAAGAGTGACTGGCCGGAAGGATACCAAGCTTGCATCCCTCCA  
 TGAACCTCCGCTTTCCCAAGTGCATTCCCATCAACCTAAAACTCTCATTCCCAATGCCAGTAGCGAGGC  
 CATCCAGCTCATGACAGAGATGTGAACTGGGATCCAAAGAAGCGACCAACAGCAAGCCAGGCACTGAAA  
 CACCCATATTTCCAAGTCGGTCAGGTAAGTGGGCTCTTCTGCACACCATCTGGATACAAAACAGACTTTAC  
 ACAAGCAGCTGCAGCCTCTGGAGCCAAAGCCATCTTCTCTGAACGGGATCCTAAGCCTTTGCCAAACAT  
 ACTTGATCAGCCTGCCGGGCAGCCCCAGCCAAAACAGGGCCCAACCACTGCAGACCATTACGCCACCA  
 CAGAACACAGTACTCACCCACCCCAAGCAGCAGGGTACCAGAAAACCACCAAAACCATGTTTCCAA  
 GTATCATCAAAACCATCCCAAGTGAATTCAGTCAGCACCCCTGGGCCATAAGGGAGCCCGGAGACGGTGGGG  
 TCAGACAGTCTTCAAGTCTGGAGACAGCTGTGACGACATTGAGGACGACTTAGGAGCCTCCCACTCCAAG  
 AAGCCAAGCATGGAAGCCTGCAAGGAGAAGAAGAAGGAGTCTCCATTTCCGTTTCCAGATTCAGGACTCC  
 CAGTCTCCAATCACTTTAAGGGGAAAAATAGGAATTTACATGCATCTGTTTCTTAAAAATCTGATCCAAA  
 CTTGTCAACTGCTTCAACGGCTAAGCAGTACTATTTGAAACAATCAAGATACCTTCCAGGTGTAACCCC  
 AAGAATGTGTCTTTGGTAGCTGGAGGCAAGGATATAAATTCACACTCTTGAATAATCAGCTATTTCTTA  
 AGTCGCTGGGATCCATGGGGCGGACCTTTCTTCAAGAGGAGTAACGCAGAAGACAGCATAATTAACCC  
 GATTGAAAACCTGTCATGCACTGGGAAGTCTGCCGAGCAGCTAGAGGACCCACAAGGAAACCTTGGGAGC  
 TACACCATTACAACCAGACGGGATACATGCCTTCTTTCTCAAGAAAGAAGTGGGATCAGCTGGCCAGA  
 GGATCCAATTGGACCTTTAGGTGCGTCGGCTTGGACTATACCTGGAGCACAAAACCTGGACGAGGCCA  
 GTTTTCGGGACGAACTTACAACCCACAGCCAAAATCTCAATATTGTGAACCGCACACAGCCAGTCCCC  
 TCGGTACACGGGAGGACAGACTGGGTGGCTAAGTATGGAGGCCACCGG**TAG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_001145803
- Insert Size:** 1941 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\\_001145803.1](#), [NP\\_001139275.1](#)

**RefSeq Size:** 3562 bp

**RefSeq ORF:** 1941 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 (1) represents the longest transcript and it encodes the longest protein (isoform 1). 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.