

## Product datasheet for **MC218810**

### **Mak (NM\_001145802) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Mak (NM_001145802) 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:** >MC218810 representing NM\_001145802  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAACCGATACACAACCATGAAGCAGCTGGGAGACGGCACGTATGGGAGTGTACTGATGGCAAGAGCA  
 ATGAGTCTGGGGAGCTGGTGGCAATCAAGAGGATGAAGAGAAAGTTCTATTCTTGGGATGAGTGTATGAA  
 CTTGCGAGAAGTTAAGTCCCTGAAAAACTCAATCACGCCAATGTGATTAATACTAAAAGAAGTTATCAGA  
 GAGAATGACCATCTTTATTTTGTATTTGAATATATGAAAGAAAACCTCTATCAGCTAATGAAAGACAGGG  
 ACATGAAACCTGAGAACTTGCTCTGCATGGGCCAGAGCTGGTGAAGATTGCTGATTTTGGACTTCAAG  
 AGAATTAAGATCACAGCCACCATACTGACTATGTGTCTACCAGATGGTACCGGCTCCTGAAGTCTTA  
 CTAAGGTCTTCGGTGTACAGCTCTCCATTGACGTGTGGCCGTGGGAAGTATAATGGCCGAGTTATATA  
 CATTTAGCCGCTTTTCCAGGGACAAGTGAAGTTGATGAGATCTTTAAAATCTGCCAAGTGTAGGGAC  
 TCCAAGAAGAGTGACTGGCCGGAAGGATACCAGCTTGCATCCTCCATGAACTTCGCTTTCCCCAGTGC  
 ATTCATCAACCTAAAACTCTCATTCCCAATGCCAGTAGCGAGGCCATCCAGCTCATGACAGAGATGC  
 TGAAGTGGGATCCAAAGAAGCGACCAACAGCAAGCCAGGCACTGAAACACCCATATTTCCAAGTCGGTCA  
 GGTACTGGGCTCTTCTGCACACCATCTGGATACAAAACAGACTTTACACAAGCAGCTGCAGCCTCTGGAG  
 CCAAAGCCATCTTCTCTGAACGGGATCCTAAGCCTTTGCCAAACATACTTGATCAGCCTGCCGGGCAGC  
 CCCAGCCAAAACAGGGCCACCAACCACTGCAGACCATTAGCCACCACAGAACACAGTGACTCACCCACC  
 CCCAAAGCAGCAGGGTACCAGAAACCACCACAAACCATGTTTCCAAGTATCATCAAACCATCCCAGTG  
 AATTGAGTACGACCTGGGCCATAAAGGGAGCCCGGAGACGGTGGGTGAGACAGTCTTCAAGTCTGGAG  
 ACAGCTGTGACGACATTGAGGACGACTTAGGAGCCTCCCACTCCAAGAAGCAAGCATGGAAGCCTGCAA  
 GGAGAAGAAGAAGGAGTCTCCATTTTCGGTTTCCAGATTCCAGACTCCAGTCTCCAATCACTTTAAGGGG  
 GAAAATAGGAATTTACATGCATCTGTTTCTTAAAATCTGATCCAACCTGTCAACTGCTTCAACGGCTA  
 AGCAGTACTATTTGAAACAATCAAGATACCTTCCAGGTGTGAACCCCAAGAATGTGTCTTTGGTAGCTGG  
 AGGCAAGGATATAAATTCACACTCTTGAATAATCAGCTATTTCTAAGTCGCTGGGATCCATGGGGCG  
 GACCTTTCCTTCAAGAGGAGTAACGCAGACTATACCTGGAGCACAAAACTGGACGAGGCCAGTTTTCGG  
 GACGAACTACAACCCACAGCCAAAAATCTCAATATTGTGAACCGCACACAGCCAGTCCCTCGGTACA  
 CGGGAGGACAGACTGGGTGGCTAAGTATGGAGGCCACCG**TAG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul

**ACCN:** NM\_001145802

**Insert Size:** 1653 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\\_001145802.1](#), [NP\\_001139274.1](#)

**RefSeq Size:** 3274 bp

**RefSeq ORF:** 1653 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 (3) lacks an alternate segment and uses a different splice site, compared to variant 1. The resulting protein (isoform 3) is shorter when it is compared to 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.