

Product datasheet for **MG218502**

Mak (NM_001145802) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Mak (NM_001145802) Mouse Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | Mak |
| Synonyms: | A930010O05Rik |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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ORF Nucleotide Sequence:

>MG218502 representing NM_001145802
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAACCGATACACAACCATGAAGCAGCTGGGAGACGGCACGTATGGGAGTGTACTGATGGCAAGAGCA
 ATGAGTCTGGGGAGCTGGTGGCAATCAAGAGGATGAAGAGAAAAGTTCTATTCTTGGGATGAGTGTATGAA
 CTTGCGAGAAGTTAAGTCCCTGAAAAAAGTCAATCACGCCAATGTGATTAAGTAACTAAAAAGATTATCAGA
 GAGAATGACCATCTTTATTTTGTATTTGAATATATGAAAGAAAACCTCTATCAGCTAATGAAAGACAGGG
 ACATGAAACCTGAGAAGTCTGCTGTCATGGGCCAGAGCTGGTGAAGATTGCTGATTTTGGACTTGAAG
 AGAATTAAGATCACAGCCACCATACTGACTATGTGTCTACCAGATGGTACCGGCTCTGAACTCTTA
 CTAAGGTCTTCGGTGTACAGCTCTCCATTGACGTGTGGCCGTGGGAAGTATAATGGCCGAGTTATATA
 CATTTAGCCGCTTTTCCAGGGACAAGTGAAGTTGATGAGATCTTTAAAATCTGCCAAGTGTAGGGAC
 TCCAAGAAGAGTGAAGTGGCCGGAAGGATACCAGCTTGCATCCTCCATGAACTTCGCTTTCCCCAGTGC
 ATTCATCAACCTAAAACTCTCATTCCAATGCCAGTAGCGAGGCCATCCAGCTCATGACAGAGATGC
 TGAAGTGGGATCCAAAGAAGCGACCAACAGCAAGCCAGGCACTGAAACACCCATATTTCCAAGTCGGTCA
 GGTACTGGGCTCTTCTGCACACCATCTGGATACAAAACAGACTTTACACAAGCAGCTGCAGCCTCTGGAG
 CCAAAGCCATCTTCTCTGAACGGGATCCTAAGCCTTTGCCAAACATACTTGATCAGCCTGCCGGGCAGC
 CCCAGCCAAAACAGGGCCACCAACCACTGCAGACCATTAGCCACCACAGAACACAGTGAAGTCAAGTCTGG
 CCCAAAGCAGCAGGGTACCAGAAACCACCAAAACATGTTTCCAAGTATCATCAAACCATCCAGTGA
 AATTGAGTCAAGCAGCAGCTGGCCATAAGGGAGCCCGGAGACGGTGGGTGAGACAGTCTTCAAGTCTGGAA
 ACAGCTGTGACGACATTGAGGACGACTTAGGACCTCCCACTCCAAGAAGCCAAGCATGGAAGCCTGCAA
 GGAGAAGAAGAAGGAGTCTCATTTCGGTTTCCAGATTACAGACTCCAGTCTCCAATCACTTTAAGGGG
 GAAAATAGGAATTTACATGCATCTGTTTCTTAAAATCTGATCCAACTGTCAACTGCTTCAACGGCTA
 AGCAGTACTATTTGAAACAATCAAGATACCTTCCAGGTGTGAACCCCAAGAATGTGTCTTTGGTAGCTGG
 AGGCAAGGATATAAATTCACACTCTTGAATAATCAGCTATTTCTAAGTCGCTGGGATCCATGGGGCG
 GACCTTCTTCAAGAGGAGTAAACGAGACTATACCTGGAGCACAAAACCTGGACGAGGCCAGTTTTCGG
 GACGAAGTACAACCCACAGCCAAAATCTCAATATTGTGAACCGCACACAGCCAGTCCCTCGGTACA
 CGGGAGGACAGACTGGTGGCTAAGTATGGAGGCCACCG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG218502 representing NM_001145802
 Red=Cloning site Green=Tags(s)

MNRYTTMKQLGDGTYGSVLMGKSNESELVAIKRMKRKFYSWDECMNLRVKSLLKLNHANVIKLKEVIR
 ENDHLYFVFEYMKENLYQLMKDRMKPENLLCMGPELVKIADFGLARELSQPPYTDYVSTRWYRAPEVL
 LRSSVYSSPIDVWAVGSIMAELYFRPLFPPTSEVDEIFKICQVLGTPPKSDWPEGYQLASSMNFRRPQC
 IPINLKTLPNASSEAIQLMTEMLNWDPKRPTASQALKHPYFQVGVQLGSSAHLDTKQTLHKQLQPLE
 PKPSSSERDPKPLPNILDQAPGQPQPKQGHQPLQTIQPPQNTVTHPPKQGHQKPPQTMFSPSIIKTIPV
 NSVSTLGHKGARRRWGQTVFKSGDSCDDIEDDLGASHSKKPSMEACKKKEKKEKSPFRFPDGLPVSNHFKG
 ENRNHLASVSLKSDPNLSTASTAKQYYLKQSRYLPGVNPKNVSLVAGGKDINSHSWNNQLFPKSLGSMGA
 DLSFKRSNADYTWSTKTGRGQFSGRTYNPTAKNLNIVNRTQPVPSVHGRTDWWAKYGGHR

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001145802

ORF Size: 1650 bp

OTI Disclaimer: 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. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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

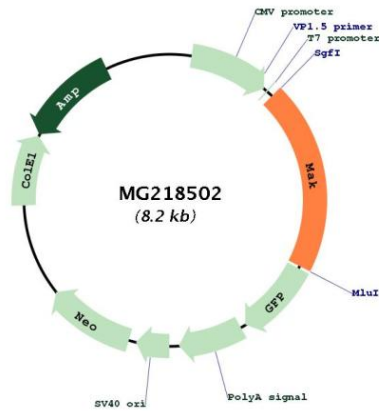
Locus ID: 17152

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]

Product images:



Circular map for MG218502