

Product datasheet for **RC234488**

MAK (NM_001242385) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MAK (NM_001242385) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MAK
Synonyms:	RP62
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC234488 representing NM_001242385
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAACCGATACACAACCATGAGACAGTTGGGGACGGCACGTATGGGAGTGTGCTTATGGCAAGAGTA
 ATGAATCCGGGGAGCTGGTGGCCATCAAAAAGGATGAAGAGAAAGTTCTATTCTTGGGATGAATGCATGAA
 CTTGAGAGAAGTTAAGTCTCTGAAGAACTTAATCATGCCAATGTTATTAATTAAGAAAGTTATCAGA
 GAAATGACCATCTTTATTTTATATTTGAATATATGAAAGAAAACCTCTATCAATTAATGAAAGACAGAA
 ACAAGTTGTTCCCTGAATCAGTCATCAGAAATATTATGTATCAAATATTGCAAGGCTGGCTTTTATCCA
 TAAACATGGCTTTTTTTCATAGGGACATGAAACCAGAAAACCTGCTTTGTATGGGTCCAGAGCTTGTGAAA
 ATTGCTGATTTTGGACTTGAAGAGAATTAAGGTCACAGCCACCATACACTGATTATGTATCTACCAGAT
 GGTATCGTGCCCTGAAGTTTACTGAGATCTTCAGTTTATAGTTCTCCATTGATGTGTGGGCTGTTGG
 AAGTATCATGGCTGAACCTATATGTTAAGGCCACTTTTCCAGGGACAAGTGAGTTCGATGAAATCTTT
 AAAATTTGCCAAGTTTAGGGACTCCCAAAAAAGTGACTGGCCAGAAGGATACCAAGCTGGCATCCCTCTA
 TGAATTCGGTTTTCCCAAGTGTGTTCCCTATAAACTTAAAACTCTTATTCCTAATGCCAGTAATGAAGC
 TATTCAGCTCATGACCGAAATGTTGAATTGGGATCCAAAGAAACGACCGACAGCAAGCCAGGCATTGAAA
 CACCCATATTTCAAGTTGGTCAGGTAATTAGGCCCTTCGTCAAATCATCTGGAATCAAAAACAGTCTTTAA
 ATAAGCAGCTGCAACCATTAGAATCAAAGCCATCTTTAGTTGAGGTAGAGCCTAAGCCTCTGCCGGATAT
 AATCGATCAGGTTGTTGGACAACCCAGCCAAAACTAGCCAGCAGCCACTGCAGCCATTACAGCCGCCA
 CAGAACCTGAGCGTCCAGCAACCTCAAAGCAACAGAGTCAGGAGAAACCGCCACAAACGCTATTCGCCA
 GCATCGTCAAAAACATGCCAATAGCCAAATGGCACACTGAGTCATAAAAAGTGGTAGGAGCGCTTGGGG
 TCAGACTATCTCAAGTCTGGAGATAGCTGGGAAGAGTTGGAGGACTATGATTTCCGGAGCCTCCCATTC
 AAGAAGCCAAGCATGGGTGTTTTTAAAGAAAAAGGAAAAAGATTCTCCATTCGGCTTCCAGAGCCAG
 TACCCTCAGGCTCCAACCACTCGACAGGGGAAAAACAAGAGCTTACCTGCTGTTACTTCCCTAAAACTGA
 TTCCGAATTGTCAACTGCTCCAACCTCTAACAGTACTACTTGAACAATCAAGATATCTCCAGGTGTG
 AATCCCAAGAAGGTGCTTGTAGCCAGTGGAAAGGAAATAAACCCCACTTGGAGCAACCAGTTAT
 TCCCAAGTCACTGGGACCCGTTGGGGCAGAATTGCTTTCAAAGGAGCAATGCAGAATATACCTGGAA
 CACAAAACTGGTCGGGGCAGTTTTCAGGACGTACTTATAATCCTACAGCAAAAAACCTAAATATTGTG
 AACCGTGCACAGCCATTCCCTCAGTGCATGGGAGGACAGACTGGGTGGCCAAGTATGGAGGCCACCGG

**ACGGTACGGCGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA**

Protein Sequence:

>RC234488 representing NM_001242385
 Red=Cloning site Green=Tags(s)

MNRYTTMRQLGDGTYSVLMGKSNESGELVAIKRMKRFYSWDECMNLREVKSLKLNHANVIKLKEVIR
 ENDHLYFIFEYMKENLYQLMKDRNKLFPESVIRNIMYQILQGLAFIHKHGFHFRDMKPENLLCMGPPELVK
 IADFLARELRSQPPYTDYVSTRWYRAPEVLLRSSVYSSPIDVWAVGSIMAEYMLRPLFPGTSEVDEIF
 KICQVLGTPKSDWPEGYQLASSMNFQPCVPINLKTLPNASNEAIQLMTEMLNWDPKKRPTASQALK
 HPYFQVQVQLGPSSNHLESKQSLNKQLQPLESKPSLVEVEPKPLPDIIDQVVGQPQPKTSQQPLQPIQPP
 QNLSVQQPPKQSQEQKPPQTLFPSIVKNMPTKPNGTSLKSGRRRWGQTIKSGDSWEELEDYDFGASHS
 KKPMSMGVFKERKKDSPFRLPEPVPSGNSHSTGENKSLPAVTSKSDSELSTAPTQYLLKQSRYPGV
 NPKKVSLIASGKEINPHTWSNQLFPKSLGPVGAELAFKRSNAEYTWNTKTGRGQFSGRTYNPTAKNLNIV
 NRAQPIPSVHGRTDWVAKYGGHR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001242385

ORF Size: 1749 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_001242385.1](#), [NP_001229314.1](#)

RefSeq Size: 3800 bp

RefSeq ORF: 1752 bp

Locus ID: 4117

UniProt ID: [P20794](#)

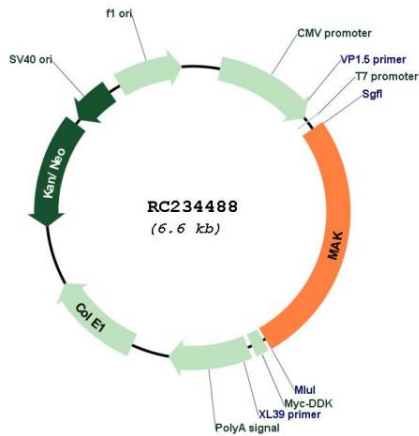
Cytogenetics: 6p24.2

Protein Families: Druggable Genome, Protein Kinase

MW: 66.8 kDa

Gene Summary: The product of this gene is a serine/threonine protein kinase related to kinases involved in cell cycle regulation. Studies of the mouse and rat homologs have localized the kinase to the chromosomes during meiosis in spermatogenesis, specifically to the synaptonemal complex that exists while homologous chromosomes are paired. Mutations in this gene have been associated with ciliary defects resulting in retinitis pigmentosa 62. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2016]

Product images:



Circular map for RC234488