

Product datasheet for **SC116439**

MAK (NM_005906) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MAK (NM_005906) Human Untagged Clone
Tag:	Tag Free
Symbol:	MAK
Synonyms:	RP62
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene ORF sequence for NM_005906 edited
GGGCTGCAGGGCCACCACCCTCTGTCCGACCCAGCCGGAGCCCGACCTGCGAGGCTGGCC
GGGCATGTCCCCTCGGCGCCCTGTGCTACCAGGGCCAATCTCCGCGGGAGACCGGTCCC
TGACGCCGGGTGTTTATAAGAATGGAAGTGTGTTTTCCTTGCCCGATTCCCTTCATGCTAT
ATCTCATGAACCTCTGTAATCTTGGGGGAGAGACTATATTTAATGATGACAAACCTGTCA
CCAGTGTAGCAACAACAGTGTGAGGACAAAAGCAAATAAAAAATTAAGAAGCGTTCAAATT
TATATTTCAACAAGGAAGTCATTTCAATCAACAACCTTCTGCTGCATTATTTTTCCAAGATG
AACCGATACACAACCATGAGACAGTTGGGGGACGCACGTATGGGAGTGTGCTTATGGGC
AAGAGTAATGAATCCGGGAGCTGGTGGCCATCAAAAAGGATGAAGAGAAAATTCTATTCT
TGGGATGAATGCATGAACTTGAGAGAAGTTAAGTCTCTGAAGAACTTAATCATGCCAAT
GTTATTAATGAAAGAAGTTATCAGAGAAAATGACCATCTTTATTTTATATTTGAATAT
ATGAAAGAAAACCTCTATCAATTAATGAAAGACAGAAAACAGTTGTTCCCTGAATCAGTC
ATCAGAAATATTATGTATCAATATTGCAAGGGCTGGCTTTTATCCATAAACATGGCTTT
TTTCATAGGGACATGAAACCAGAAAACCTGCTTTGTATGGGTCCAGAGCTTGTGAAAATT
GCTGATTTTGGACTTGAAGAGAATTAAGTCCACAGCCACCATACTGATTATGTATCT
ACCAGATGGTATCGTGCCCTGAAGTTTTACTGAGATCTTCAGTTTATAGTTCTCCCAAT
GATGTGTGGGCTGTTGGAAGTATCATGGCTGAACTCTATATGTTAAGGCCACTTTTCCCA
GGGACAAGTGAGGTGCGATGAAATCTTTAAAATTTGCCAAGTTTTAGGGACTCCCAAAAAA
AGTGACTGGCCAGAAGGATACCAGCTGGCATCCTCTATGAACTTCCGTTTTCCCAAGTGT
GTTCTATAAACTTAAAACTCTTATTTCCCAATGCCAGTAATGAAGCTATTCAGCTCATG
ACCGAAATGTTGAATTGGGATCCAAAGAAACGACCCAGCAAGCCAGGCATTGAAACAC
CCATATTTTCAAGTTGGTCAGGTATTAGGCCCTTCGTCAAATCATCTGGAATCAAAACAG
TCTTTAAATAAGCAGCTGCAACCATTAGAATCAAAGCCATCTTTAGTTGAGGTAGAGCT
AAGCCTCTGCCGGATATAATCGATCAGGTTGTTGGACAACCCAGCCAAAAACTAGCCAG
CAGCCACTGCAGCCATTAGCCGCCACAGAACCTGAGCGTCCAGCAACCTCCAAAGCAA
CAGAGTCAGGAGAAACGCCACAACGCTATTCCCGAGCATCGTCAAAAACATGCCAACT
AAGCCAAATGGCACACTGAGTCATAAAAGTGGTAGGAGGCGTTGGGGTCAGACTATCTTC
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AAGCCAAGCATGGGTGTTTTTAAAGAAAAAGGAAAAAAGATTCTCCATTTCCGCTTCCA
GAGCCAGTACCCTCAGGCTCCAACCACTCGACAGGGGAAAAACAAGAGCTTACCTGCTGTT
ACTTCCCTAAAACTGATTCCGAATTGTCAACTGCTCCAACCTCTAAACAGTACTACTTG
AAACAATCAAGATATCTTCCAGGTGTGAATCCCAAGAAGGTGCCTTGATAGCCAGTGGA
AAGGAAATAAACCCCCACACTTGGAGCAACCAGTTATTTCCCAAGTCACTGGGACCCGTT
GGGGCAGAACTTGCTTTCAAAGGAGCAATGCAGGAAATCTTGGAAAGTTATGCTACTTAC
AATCAGTCAGGATATATTCCTTCTTTCTCAAAAAAGAAGTGCAGTCAGCTGGCCAGAGG
ATCCACTTAGCACCTCTCAATGCAACGGCTTCAGAATATACCTGGAACACAAAACTGGT
CGGGGGCAGTTTTTCAAGCAGTACTTATAATCCTACAGCAAAAAACCTAAATATTGTGAAC
CAGCGGTAGGAGCTATGGTGTGAAACCCTACAGCATTGCTCCGTAGAGTACGTGCAAGT
TCCTTGACCCTGGGAAATGTCTACAAATGTCTATTTCTACTGAGTTCTGGAAGAAATATG
CAAAAGTGGGTACTTGGAAAGGGCAAAAATCATCCCTATTTTACTTATTTCCAAGAAATG
CATTTTCTTAGCATATTGCCACAGTGTGATATATGGGTAGGATGTTACAAAGTATTG
AATAAACTATTTGCCAAAGTAAAAAAAAAAAAAAAAAACTCGAC
    
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_005906 unedited TAGGCGGCCGCGNAATTCGCACGAGGTAATCCCCACGGGCTGCAGGGCCACCACCCTCTG TCCGACCCAGCCGGAGCCCGACCTGCGAGGCTGGCCGGGCATGTCCCCTCGGCGCCCTGT GCTACCAGGGCCAATCTCCGCCGGGAGACCGGTCCCTGACGCCGGGTGTTTATAAGAATG GAAGTGTGTTTCCTTGCCCGATTCTTCATGCTATATCTCATGAACCTCTGTAATCTTG GGGAGAGACTATATTTAATGATGACAAACCTGTCACCAGTGTAGCAACAACAGTGTGAG GACAAAAGCAAAATAAAAATTAAGAAGCGTTCAAATTTATATTCAACAAGGAAGTCATTTT AATCAACAACCTTCTGCTGATTATTTTTCCAAGATGAACCGATACACAACCATGAGACAG TTGGGGGACGGCACGTATGGGAGTGTGCTTATGGGCAAGAGTAATGAATCCGGGGAGCTG GTGGCCATCAAAAGGATGAAGAGAAAGTTCTATTCTTGGGATGAATGCATGAACTTGAGA GAAGTTAAGTCTCTGAAGAACTTAATCATGCCAATGTTATTAATGAAAGAAGTTATC AGAGAAAATGACCATCTTTATTTTATATTTGAATATATGAAAGAAAACCTCTATCAATTA ATGAAAGACAGAAAAGTTGTTCCCTGAATCAGTCATCAGAAAATATTATGTATCANATAT TGCAAGGGCTGGCTNTTATCCATAAACATGGCTTTTTTTCATAGGGACATTGAAACCAGNA AACTTTGCTTGTATGGGNTCCAGNAGCTTGTGAAAATG
Restriction Sites:	Please inquire
ACCN:	NM_005906
Insert Size:	3200 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:	<ol style="list-style-type: none"> 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_005906.3 , NP_005897.1
RefSeq Size:	3830 bp
RefSeq ORF:	1872 bp
Locus ID:	4117
UniProt ID:	P20794
Cytogenetics:	6p24.2
Domains:	pkinase, TyrKc, S_TKc
Protein Families:	Druggable Genome, Protein Kinase

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]

Transcript Variant: This variant (1) encodes isoform 1.