

## Product datasheet for **SC331937**

### **MAK (NM\_001242957) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	MAK (NM_001242957) Human Untagged Clone
Tag:	Tag Free
Symbol:	MAK
Synonyms:	RP62
Vector:	pCMV6-Entry (PS100001)



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**Fully Sequenced ORF:** >SC331937 representing NM\_001242957.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGAACCGATACACAACCATGAGACAGTTGGGGGACGGCACGTATGGGAGTGTGCTTATGGGCAAGAGT
AATGAATCCGGGGAGCTGGTGGCCATCAAAGGATGAAGAGAAAGTTCTATTCTTGGGATGAATGCATG
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AGAAACAAGTTGTTCCCTGAATCAGTCATCAGAAATATTATGTATCAAATATTGCAAGGGCTGGCTTTT
ATCCATAAACATGGCTTTTTTTCATAGGGACATGAAACCGAAAACCTTGCTTTGTATGGGTCCAGAGCTT
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AGTAATGAAGCTATTAGCTCATGACCGAAATGTTGAATTGGGATCCAAAGAAACGACCGACAGCAAGC
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CCTCTGCCGATATAATCGATCAGGTTGTTGGACAACCCAGCCAAAACTAGCCAGCAGCCACTGCAG
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CAAACGCTATCCCGAGCATCGTCAAAAACATGCCAACTAAGCCAAATGGCACACTGAGTCATAAAAGT
GGTAGGAGGCGTTGGGGTCAGACTATCTCAAGTCTGGAGATAGCTGGGAAGAGTTGGAGGACTATGAT
TTCGGGCTCCCATTTCCAAGAAGCCAAGCATGGGTGTTTTTAAAGAAAAAGGAAAAAAGATTCTCCA
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GTACTTCCCTAAAATCTGATTCGAAATTGTCAACTGCTCAACCTCTAAACAGTACTACTTGAACAA
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AGCAATGCAGAAGAAAGCATAATTAACCAATCGAAAACTATCATGCAATGAACTTTTCTGAAAAA
TTAGAGGACCCACAAGGAAATCTTGAAGTTATGCTACTTACAATCAGTCAGGATATATTCTTCTTT
CTCAAAAAAGAAGTGCAGTCAGCTGGCCAGAGGATCCACTTAGCACCTCTCAATGCAACGGCTTCAGAA
TATACCTGGAACACAAAACTGGTCGGGGCGAGTTTTTCAGGACGTAATTATAATCCTACAGCAAAAAAC
CTAAATATTGTGAACCGTGCACAGCCATTCCCTCAGTGCATGGGAGGACAGACTGGGTGGCCAAGTAT
GGAGGCCACCGTAG
  
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**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001242957

**Insert Size:** 1947 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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001242957.1</a>
<b>RefSeq Size:</b>	3974 bp
<b>RefSeq ORF:</b>	1947 bp
<b>Locus ID:</b>	4117
<b>UniProt ID:</b>	<a href="#">P20794</a>
<b>Cytogenetics:</b>	6p24.2
<b>Protein Families:</b>	Druggable Genome, Protein Kinase
<b>MW:</b>	73.5 kDa
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (3) contains an alternate in-frame exon compared to variant 1. The encoded isoform (3) is longer than isoform 1.</p>