

## Product datasheet for **MR220406**

### Katnal2 (NM\_027721) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Katnal2 (NM\_027721) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Katnal2  
**Synonyms:** 3110023G01Rik; 4933439B08Rik  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR220406 representing NM\_027721  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGC**C

ATGGAGCTTTCTTACCAGACTCTCAAACACTCACTCACCAGGCGGGGAGGCGTACGAGATGAGAACAGAAG  
CACGGCGAAAAATCTTCTCATTCTGATTTGCATTACTTAACACAAGAAGGCTACATGGATGCAGCTAA  
GGCTTTGGAGGAGGAGACCAAACCTGGGATTACGGCGCTTGAAGTTTGTGACAACGTTGACCTGGAACT  
ATTTTGATGGAATATGAGAGCTATTATTTGTAAAGTTCCAGAAGTACCCCAAAGTGTTAAGAAGGCC  
CGGACCCAGTGGAAAATAATTTACCGTCACGAAGTGGAGGAAGAACAAAAGGCTGACGAATGACAGTTG  
TCAAAATCTCCCAAGATATGTCACCAGAAGTCACGACCTAAAACCTTCAGCAGTGAAGACAGGGGACACC  
AAATCTGTCAAGGAACACCTTAAACAGGTCAAGGAGAGTGTCACTGACACTCAAGCAGAGAGCACTGACT  
TCGGCCTGAACATATCAAAAATCCACAAAGACCAGCCAGAGGAAAAGGCCAACCCACGAAGAGGCCAAAT  
CATTGACTTCCGAGGACTGCTCTCAGACGCTATCAAAGGAGCCACAAGTGAATTTGCATTGAACACCTTT  
GAATGTAACCCAGACCCTTCCAGAGCATTGCTGAAACCTCTGAGTGCATTTATTGGCATGAACAGTGAGA  
TGCGGAACTGGCAGCGGTGGTGGAGCCGGGACATTTATCTCCATAATCCCAACATAAAGTGAATGACAT  
TATTGGACTGGACGACCAAGCAGCTAGTCAAAGAAGCCGTTGTGTACCAATAAGATAACCCGACGCTC  
TTCACAGGAATTCTTTCCCGTGGAAAGGACTGCTGCTTACGGCCCCCAGGCACAGGGAAGACTTTGC  
TGGCCAAAGCGGTGGCCACCGAATGCAAAACACCTTCTTTAACATTTCTGCATCCACTATTGTCAGCAA  
ATGGAGAGGAGATTCCGAAAACTGGTCCGGGTGCTGTTTGAACCTGCGCGATATCATGCCCCCTCCACG  
ATCTTCTGGATGAGCTGGAGTCGGTGATGAGTCAGAGAGGCATGGTTCTGGGGGGAAACATGAAGGGA  
GCCTTCGGATGAAGACGGAGTTACTGGTGCAGATGGATGGCTTAGCACGCTCGGAGGATCTCGTGTGTTGT  
CTTAGCAGCCTCAAACCTGCCATGGGAAGGAGATGCG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



**Protein Sequence:** >MR220406 representing NM\_027721  
Red=Cloning site Green=Tags(s)

MELSYQTLKLTHQAREAYEMRTEARRKNLLILILHYLTQEGYMDAAKALEEETKGLRRFEVCDNDVLET  
 ILMEYESYYFVKFQKYPKVVKKAPDPVENNLPSSRSGGKKNKRLTNDSCQNLPKICHQKSRPKTSAVKTDGT  
 KSVKEHLKQVKESVTDQAESTDGFLNISKIHKDQPEEKAQPRRGQIIDFRGLLSDAIKGTSEFALNTF  
 ECNPDPSEKLLKPLSAFIGMNSEMRELAADVSRDIYLNHPNIKWNDIIGLDAAKQLVKEAVVYPIRYPQL  
 FTGILSPWKGLLLYGPPGTGKTLAKAVATECKTTFFNISASTIVSKWRGDSEKLVRLFELARYHAPST  
 IFLDELESVMSQRGMVPGGEHEGSLRMKTELLVQMDGLARSEDLVFVLAASNLPWEGDA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja3785\\_a10.zip](https://cdn.origene.com/chromatograms/ja3785_a10.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_027721

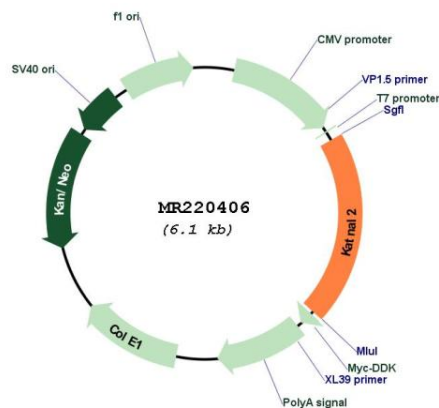
**ORF Size:** 1230 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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>	<u>NM_027721.2, NP_081997.1</u>
<b>RefSeq Size:</b>	1673 bp
<b>RefSeq ORF:</b>	1230 bp
<b>Locus ID:</b>	71206
<b>UniProt ID:</b>	<u>Q9D3R6</u>
<b>Cytogenetics:</b>	18 E3
<b>MW:</b>	46.1 kDa
<b>Gene Summary:</b>	Severs microtubules in vitro in an ATP-dependent manner. This activity may promote rapid reorganization of cellular microtubule arrays.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR220406