

Product datasheet for **MG220406**

Katnal2 (NM_027721) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Katnal2 (NM_027721) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Katnal2
Synonyms: 3110023G01Rik; 4933439B08Rik
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG220406 representing NM_027721
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**C

ATGGAGCTTTCTTACCAGACTCTCAAACACTCACTCACCAGGCGGGGAGGCGTACGAGATGAGAACAGAAG
 CACGGCGAAAAATCTTCTCATTCTGATTTGCATTACTTAACACAAGAAGGCTACATGGATGCAGCTAA
 GGCTTTGGAGGAGGAGACCAAACCTGGGATTACGGCGCTTGAAGTTTGTGACAACGTTGACCTGGAACT
 ATTTTGTGGAATATGAGAGCTATTATTTGTAAAGTTCCAGAAGTACCCCAAAGTGTTAAGAAGGCC
 CGGACCCAGTGGAAAATAATTTACCGTCACGAAGTGGAGGAAGAACAAAAGGCTGACGAATGACAGTTG
 TCAAAATCTCCCAAGATATGTCACCAGAAGTCACGACCTAAAACCTTCAGCAGTGAAGACAGGGGACACC
 AAATCTGTCAAGGAACACCTTAAACAGGTCAAGGAGAGTGTCACTGACACTCAAGCAGAGAGCACTGACT
 TCGGCCTGAACATATCAAAAATCCACAAAGACCAGCCAGAGGAAAAGGCCAACCACGAAGAGGCCAAAT
 CATTGACTTCCGAGGACTGCTCTCAGACGCTATCAAAGGAGCCACAAGTGAATTTGCATTGAACACCTTT
 GAATGTAACCCAGACCCTTCAGAGCGATTGCTGAAACCTCTGAGTGCATTTATTGGCATGAACAGTGAGA
 TGCAGAACTGGCAGCGGTGGTGGAGCCGGGACATTTATCTCCATAATCCCAACATAAAGTGAATGACAT
 TATTGGACTGGACGACCAAGCAGCTAGTCAAAGAAGCCGTTGTGTACCAATAAGATAACCCGACGCTC
 TTCACAGGAATTCTTTCCCGTGGAAAGGACTGCTGCTTACGGCCCCCAGGCACAGGGAAGACTTTGC
 TGGCCAAAGCGGTGGCCACCGAATGCAAAACCACCTTCTTTAACATTTCTGCATCCACTATTGTCAGCAA
 ATGGAGAGGAGATTCCGAAAACTGGTCCGGGTGCTGTTTGAACCTGCGCGATATCATGCCCCCTCCACG
 ATCTTCTGGATGAGCTGGAGTCGGTGATGAGTCAGAGAGGCATGGTTCTGGGGGGAAACATGAAGGGA
 GCCTTCGGATGAAGACGGAGTTACTGGTGCAGATGGATGGCTTAGCACGCTCGGAGGATCTCGTGTGTTG
 CTTAGCAGCCTCAAACCTGCCATGGGAAGGAGATGCG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG220406 representing NM_027721
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MELSYQTLKLTHQAREAYEMRTEARRKNLLILILHYLTQEGYMDAAKALEEETKGLRRFEVCDNVDLET
 ILMEYESYFFVKFQKYPKVVKKAPDPVENNLPSRSGGKKNKRLTNDSCQNLPKICHQKSRPKTSAVKTGDT
 KSVKEHLKQVKESVTDQAESTDFGLNISKIHKDQPEEKAQPRRQIIDFRGLLSDAIKATSEFALNTF
 ECNPDPSEKLLKPLSAFIGMNSEMRELAADVSRDIYLNHPNIKWNDIIGLDAKQLVKEAVVYPIRYPQL
 FTGILSPWKGLLLYGPPGTGKTL LAKAVATECKTTFNISASTIVSKWRGDSEKLVRLVLFELARYHAPST
 IFLDELESVMSQRGMVPGGEHEGSLRMKTELLVQMDGLARSEDLVFVLAASNLPWEGDA

TRTRPLE - GFP Tag - V

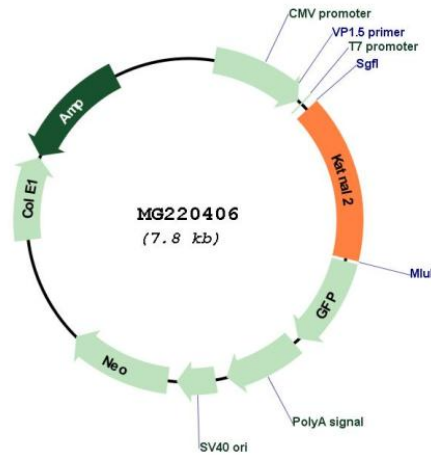
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_027721

ORF Size:	1227 bp
OTI Disclaimer:	<p>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 or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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:	<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_027721.2 , NP_081997.1
RefSeq Size:	1673 bp
RefSeq ORF:	1230 bp
Locus ID:	71206
UniProt ID:	Q9D3R6
Cytogenetics:	18 E3
Gene Summary:	Severs microtubules in vitro in an ATP-dependent manner. This activity may promote rapid reorganization of cellular microtubule arrays.[UniProtKB/Swiss-Prot Function]