

Product datasheet for **RG206087**

KATNAL2 (NM_031303) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | KATNAL2 (NM_031303) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | KATNAL2 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | >RG206087 representing NM_031303 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAATATGAGAGTTATTATTTGTAAAATTTAGAAATACCCCAAAATGTCAAAAAGTCATCAGACA
CAGCAGAAAATAATTTACCGCAAAGAAGTAGAGGGAAGACCAGAAGGATGATGAACGACAGTTGTCAAAA
TCTTCCCAAGATCAATCAGCAGAGGCCCGGTCCAAAACCACAGCGGGGAAGACAGGGGACACCAATCG
CTCAATAAGGAGCATCCTAATCAGGAGGTAGTTGATAACACTCGCCTGGAAAATGCCAACTTCGGCTAC
ATATATCAAGAATCCGTAAAGACAGTGGAGAGGAAAATGCCACCACGAAGAGGCCAAATCATTGACT
CCAAGGGCTGCTCACAGATGCCATCAAGGGAGCAACCAGTGAACCTTGCCTTGAACACCTTCGACCAAT
CCAGACCCCTCAGAACGACTGCTGAAACCTCTGAGTGCATTTATTGGCATGAACAGTGAAGTGCAGAA
TGGCAGCCGTGGTGAAGCCGGGACATTTATCTCCATAATCCAAACATAAAGTGAATGACATTATTGGACT
TGATGCAGCCAAGCAGTTAGTCAAAGAAGCTGTTGTGTATCCTATAAGGTATCCACAGCTATTTACAGGA
ATTCTTTCTCCCTGGAAAGGACTACTGCTGTACGGCCCTCCAGGTACAGGAAAGACTTTACTGGCCAAAG
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GGATTCAAAAACTCGTTCGGGTGTTATTTGAGCTTGCCCGCTACCACGCCCCATCCAGATCTTCTCTG
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CCCAGCCGGGAGGCCAGGCAGGCCATGATCTACCACTGGCTGCCTCCTGTGAGCAAGAGCAGGGCCTTGG
AGCTGCACACAGAGCTGGAGTACAGTGTGCTGAGCCAGGAGACTGAGGGCTACTCAGGCTCAGATATTAA
GCTCGTCTGCAGGAAGCAGCCATGCGGCCCGTGGAGGAAGATCTTTGATGCACCTTGAATCACCAGTCA
GAAAGCAGCGACTTACCAGGATCCAGTTGGATATAGTAACCACTGCCGACTTTCTGGATGTGCTAACTC
ACACCAAGCCCTCCGCAAAGAATCTGGCTCAGAGATACTCAGACTGGCAAAGAGAGTTCGAGTCTGTCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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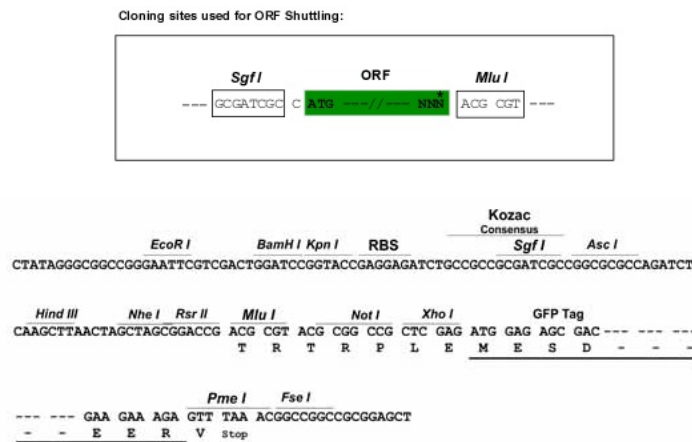
Protein Sequence: >RG206087 representing NM_031303
Red=Cloning site Green=Tags(s)

MEYESYFVKFQKYPKIVKSSDTAENNLQSRGKTRMMNDSCQNLKINQQRPRSKTTAGKTGDTKS
 LNKEHPNQEVVDNTRLENANFGLHISRIRKDSGEENAHPRRGQIIDFQGLLTDAIKGATSELALNTFDHN
 PDPSERLKPLSAFIGMNSEMRELAHVSRDIYLHNPNIKWNDIIGLDAAKQLVKEAVVYPIRYPQLFTG
 ILSPWKGLLLYGPPGTGKTLAKAVATECKTTFFNISASTIVSKWRGDSEKLVRLVFELARYHAPSTIFL
 DELESVMSQRGTASGGEHEGSLRMKTELLVQMDGLARSEDLVFLAASNLPWELDCAMLRRLEKRILVDL
 PSREARQAMIYHWLPPVSKSRALHTELEYSVLSQETEGYSGSDIKLVCREAAMPVRKIFDALENHQ
 ESSDLPRIQLDIVTTADFLDVLTHTKPSAKNLAQRYSWQREFESV

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_031303

ORF Size: 1398 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_031303.1](#), [NP_112593.1](#)

RefSeq Size: 1896 bp

RefSeq ORF: 1401 bp

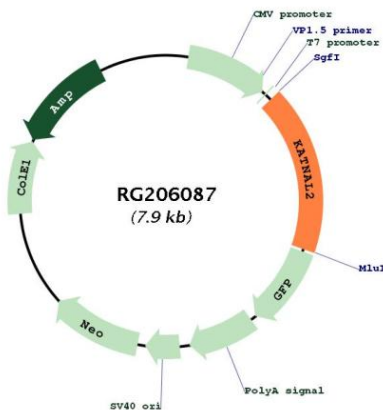
Locus ID: 83473

UniProt ID: [Q8IYT4](#)

Cytogenetics: 18q21.1

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]

Product images:



Circular map for RG206087