

Product datasheet for **RC206087**

KATNAL2 (NM_031303) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KATNAL2 (NM_031303) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	KATNAL2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC206087 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGAATATGAGAGTTATTATTTTGTAAAAATTCAGAAATACCCCAAATGTCAAAAAGTCATCAGACA
 CAGCAGAAAATAATTTACCGCAAAGAAGTAGAGGGGAAGACCAGAAGGATGATGAACGACAGTTGTCAAAA
 TCTTCCCAAGATCAATCAGCAGAGGCCCGGTCCAAAACACAGCGGGGAAGACAGGGGACACCAATCG
 CTCAATAAGGAGCATCTAATCAGGAGGTAGTTGATAACACTCGCCTGGAAAATGCCAACTTCGGCTAC
 ATATATCAAGAATCCGTAAGACAGTGGAGAGGAAAATGCCACCCACGAAGAGGCCAAATCATTGACTT
 CCAAGGGTCTCACAGATGCCATCAAGGGAGCAACCAGTGAACCTTGCCTTGAACACCTTCGACCATAAT
 CCAGACCCCTCAGAACGACTGCTGAAACCTCTGAGTGCATTTATTGGCATGAACAGTGAAGATGCGAGAAT
 TGGCAGCCGTGGTGAAGCCGGACATTTATCTCCATAATCCAAACATAAAGTGAATGACATTATTGGACT
 TGATGCAGCCAAGCAGTTAGTCAAAGAAGCTGTTGTGTATCCTATAAGGTATCCACAGCTATTTACAGGA
 ATTCTTTCTCCCTGGAAGGACTACTGTGTACGGCCCTCCAGGTACAGGAAAGACTTTACTGGCCAAAG
 CTGTGGCCACTGAATGTAAAACAACCTTCTTAAACATTTCTGCATCCACATTGTGAGCAATGGAGAGG
 GGATTCAGAAAAACTCGTTCGGGTGTTATTTGAGCTTGCCCGCTACCACGCCCATCCACGATCTTCCTG
 GACGAGCTGGAGTCGGTGATGAGTCAGAGAGGCACAGCTTCTGGGGGAGAACATGAAGGAAGCCTGCGGA
 TGAAGACAGAGTTACTGGTGCAGATGGATGGGCTGGCAGCTCAGAAGATCTCGTATTTGTCTTAGCAGC
 TTCTAACCTGCCGTGGGAGCTGGACTGTCCATGTTACGCCCGCTGGAGAAGAGGATTCTGGTCGATCTC
 CCCAGCCGGGAGGCCAGGCAGCCATGATCTACCACTGGCTGCCTCTGTGAGCAAGAGCAGGGCCCTTG
 AGCTGCACACAGAGCTGGAGTACAGTGTCTGAGCCAGGAGACTGAGGGCTACTCAGGCTCAGATATTA
 GCTCGTCTGCAGGAAGCAGCCATGCGGCCGTGAGGAAGATCTTTGATGCACTTGAAAAATCACCAGTCA
 GAAAGCAGCGACTTACCAGGATCCAGTTGGATATAGTAACCACTGCCGACTTTCTGGATGTGCTAACT
 ACACCAAGCCCTCCGCAAAGAATCTGGCTCAGAGATACTCAGACTGGCAAAGAGAGTTTCGAGTCTGTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC206087 protein sequence
 Red=Cloning site Green=Tags(s)

MEYESYFVKFQKYPKIVKSSDTAENLNPQRSRGKTRMMNDSCQNLPKINQQRPRSKTTAGKTGDTKS
 LNKEHPNQEVVDNTRLENANFGLHISRIRKDSGEENAHPRRQIIDFQGLLTDIAIKGATSELALNTFDHN
 PDPSEKLLKPLSAFIGMNSEMRELAAVVSRDIYLHNPNIKWNDIIGLDAKQLVKEAVVYPIRYPQLFTG
 ILSPWKGLLLYGPPGTGKTLAKAVATECKTTFNISASTIVSKWRGDSEKLVRLVFELARYHAPSTIFL
 DELESVMSQRGTASGGEHEGSLRMKTELLVQMDGLARSEDLVFVLAASNLPWELDCAMLRREKRILVDL
 PSREARQAMIYHWLPPVSKSRALELHTELEYSVLSQETEGYSGSDIKLVCREAMRPVRKIFDALENHQ
 ESSDLPRIQLDIVTTADFLDVLTHTKPSAKNLAQRYSDWQREFESV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6318_e12.zip

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: 2850 bp

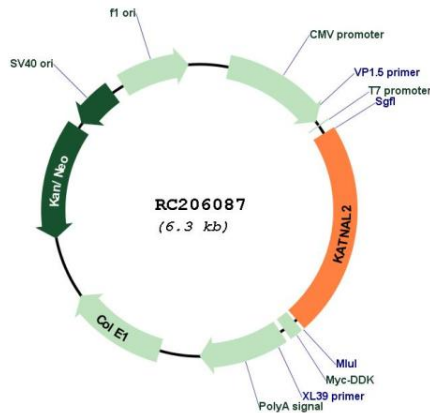
RefSeq ORF: 1401 bp

Locus ID: 83473

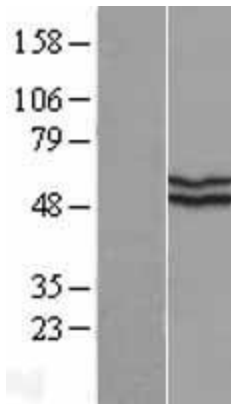
UniProt ID: [Q8IYT4](#)

Cytogenetics: 18q21.1
MW: 52.8 kDa
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 RC206087



Western blot validation of overexpression lysate (Cat# [LY410553]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206087 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified KATNAL2 protein (Cat# [TP306087]). The protein was produced from HEK293T cells transfected with KATNAL2 cDNA clone (Cat# RC206087) using MegaTran 2.0 (Cat# [TT210002]).