

Product datasheet for MR202410

Katnal2 (BC069977) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Katnal2 (BC069977) 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:	>MR202410 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGCTTTCTTACCAGACTCTCAAACACTCACTCACCAGGCGGGGAGGCGTACGAGATGAGAACAGAAG
CACGGCGAAAAATCTTCTCATTCTGATTTTGCATTACTTAACACAAGAAGGCTACATGGATGCAGCTAA
GGCTTTGGAGGAGGAGACCAAACCTGGGATTACGGCGCTTGAAGTTTGTGACAACGTTGACCTGGAACT
ATTTTGATGGAATATGAGAGCTATTATTTGTAAAGTTCAGAAGTACCCCAAAGTGTTAAGAAGGCC
CGGACCCAGTGGAAAATAATTTACCGTACGAAGTGGAGGAAGAACAAAAGGCTGACGAATGACAGTTG
TCAAAATCTCCCAAGATATGTCACCAGAAGTCACGACCTAAAACCTTACGAGTGAAGACAGGGGACACC
AAATCTGTCAAGGAACACCTTAAACAGGAGAGTGTCACTGACACTCAAGCAGAGAGCACTGACTTCGGCC
TGAACATATCAAAAATCCACAAAGACCAGCCAGAGGAAAAGGCCCAACCACGAAGAGTGAGTGGAGCTCA
GGTCTAGGATGGAAAGGGCACTTGTCTCAAGAAAAGGAAAATAAGCATACAGTTGTTGCCAAACA
GGAAAGCGAAGACAGAAGCAT

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >MR202410 protein sequence
Red=Cloning site Green=Tags(s)

MELSYQTLKLTHQAREAYEMRTEARRKNLLILILHYLTQEGYMDAAKALEEETKGLRRFEVCDNDVLET
 ILMEYESYFFVKFQKYPKVVKKAPDPVENNLPSSRSGGKNNKRLTNDSCQNLPKICHQKSRPKTSAVKTGDT
 KSVKEHLKQESVTDQAESTDFGLNISKIHKDQPEEKAQPRRVSGAQGPRMERGTCLKKKENKAYSCCQT
 GKRRQKH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN: BC069977

ORF Size: 651 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: [BC069977](#), [AAH69977](#)

RefSeq Size: 1554 bp

RefSeq ORF: 653 bp

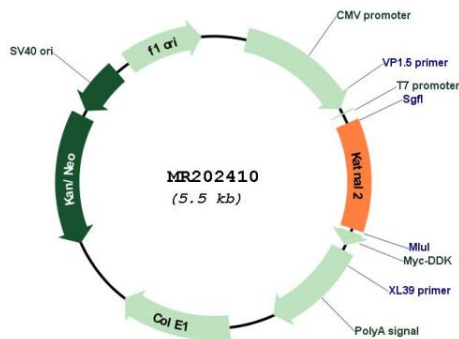
Locus ID: 71206

Cytogenetics: 18 E3

MW: 25.1 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 MR202410