

Product datasheet for **RN210614**

Katnal1 (NM_001006956) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Katnal1 (NM_001006956) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Katnal1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN210614 representing NM_001006956
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAATTTGGCCGAGATTTGTGAGAATGCGAAGAAAGCCGGGAATATGCACTTCTGGGAATTATGACT
 CGTCAATGGTGTATTACCAGGGAGTAATACAGCAGATCCAGAGACTGCCAGTCACTGAGAGACCCGGC
 CACCAAAGCGAAGTGGCAGCAGGTTTCGGCAGGAGCTCTTGGAAGAATATGAACAAGTTAAGAGTATCGTC
 AGCACGTTAGAAAGCTTTAAGATGGACAAGCCCTGACTTCCCTGTGTCTTGTGCGAGACGAACCGTTTA
 GAGATCCGGCAGTATGGCCACCCCGGTCCCTGCAGAACACAGAGCACCACCTCAAATCAGGCGTCCCAA
 CCGAGAAGTGAGGCTCTGCGGAAAGACATGGGGCAGGAGCCCGGGGCTCGTGGGCCGAGCACACCAG
 ATATCGAAGAGTGATAAAGCTGCAAGTCGGGACAAGGACTATAGAGCAAGAGGGAGAGATGACAAGGCAA
 GAAAAATATGCAAGATGGCGAAGTATGGTGAGATCCCAAGTTCGATGGCGCTGGGTATGACAAGGA
 TCTGGTGGAGGCTCTGGAGAGGGACATTGTGTCCAGGAACCTAGCATTCACTGGGATGATATAGCAGAT
 CTGGAGGAAGCTAAGAAGTTGCTCCGGGAAGCTGTTGTCCTTCCCATGTGGATGCCTGACTTTTTCAAAG
 GGATTAGAAGGCCATGGAAGGTGTGCTGATGGTTCGGCCCTCCAGGGACTGGTAAGACTATGCTGGCTAA
 AGCTGTTGCCACCGAATGTGGACAACCTTTTTCAACGCTCCTCTTCCACCCTGACGTCTAAGTACCGA
 GGCGAGTCTGAGAAGTTGGTCCGTCTGTTGTTTAAATGGCGAGGTTCTATGCCCTACCACGATCTTCA
 TCGACGAAATAGACTCCATCTGCAGTCGAAGAGGGACCTCCGATGAGCATGAGGCCAGCCGAGAGTGAA
 GTCCGAGCTCCTCATCCAGATGGACGGAGTTGGAGGAGCCTTAGAAAACGATGATCCATCCAAAAATGGTG
 ATGGTCTGGCGGCTACGAACTTCCCGTGGGACATCGATGAGGCTCTGCGCAGGAGACTGGAGAAGAGGA
 TCTACATCCCTCTCCCCACAGCAAAGGAAGGGCGGAGCTCCTGAAGATCAGCCTCCGGGAGGTGGAGCT
 GGACCCCGACATCCACCTGGAGGACATCGCTGAGAAGACGGAGGGCTACTCGGGCGCTGACATAACTAAC
 ATCTGCAGAGATGCTTCTCTGATGGCCATGAGGGCGCATCAACGGCCTGAGTCCAGAAGAGATCAGGG
 CCCTGTCCAAGGAGGAGCTGCAGATGCCTGTACCAGAGGGGACTTGGAGCTGGCGCTGAAGAAAATCGC
 CAAGTCTGTCTCTGCGGCAGACCTGGAGAAGTACGAAAAGTGGATGGTTGAGTTCGGATCTGCGTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001006956
- Insert Size:** 1467 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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_001006956.1](#), [NP_001006957.1](#)

RefSeq Size: 1663 bp

RefSeq ORF: 1467 bp

Locus ID: 288449

UniProt ID: [Q5XIK7](#)

Cytogenetics: 12p11

Gene Summary: Regulates microtubule dynamics in Sertoli cells, a process that is essential for spermiogenesis and male fertility. Severs microtubules in an ATP-dependent manner, promoting rapid reorganization of cellular microtubule arrays (By similarity). Has microtubule-severing activity in vitro (By similarity).[UniProtKB/Swiss-Prot Function]