

Product datasheet for **MC216779**

Katnal1 (NM_153572) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Katnal1 (NM_153572) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Katnal1
Synonyms:	MGC40859
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC216779 representing NM_153572
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGAATTTGGCGGAGATTTGTGAGAATGCGAAGAAAGCCGGGAATATGCGCTTCTGGGAAATTATGACT
CGTCAATGGTGTATTACCAGGGAGTGATACAGCAGATCCAGAGACTGCCAGTCACTGAGAGACCCGGC
CACCAAAGCCAAGTGGCAGCAGGTACGGCAGGAACTCTTGGAAGAATATGAACAGGTTAAGAGTATCGTC
AGCACTTTAGAAAGCTTTAAGATGGACAAGCCCCCTGACTTCCCCGTGTCTTGCCGAGATGAACCGTTTA
GAGACCTGCAGTATGGCCACCCCTGTCCCTGCGGAACACAGAGACCCCTCAAATCAGGCGTCCAAA
TCGCGAAGTGAGGCCTCTGCGGAAAGACGTGGGGCAGGAGCCCGGGACTCGTGGGCCGAGCACACCAG
ATATCGAAGAGTGACAAACCTGCAAGTCGGGACAAGGACTATAGAGCAAGAGGGAGAGATGACAAGGCAA
GGAAAAATGTGCAAGATGGTCAAGTGACAGCGAGATCCCAAGTTTGATGGCGCCGGGTATGATAAGGA
TCTGGTGAAGCCCTGGAGAGGGACATTGTGTCCAGGAACCTAGCATTCACTGGGATGACATAGCAGAC
CTGGAGGAGGCTAAGAAGTTGCTCCGGGAAGCTGTTGTCCTGCCCATGTGGATGCCTGACTTTTTCAAAG
GGATTAGAAGGCCATGGAAGGGTGTGCTGATGGTTGGCCCCCAGGCACTGGTAAGACTATGCTGGCTAA
AGCGGTTGCCACTGAATGTGGACAACCTTTTTCAACGTGTCCTTCTACCCTGACATCTAAGTACAGA
GGCGAATCTGAGAAGTTGGTCCGACTGTTGTTGAAATGGCTAGGTTCTATGCCCTACCACGATCTTCA
TCGACGAAATTGATTCTATCTGCAGTCGAAGAGGGACGCTGTATGAGCACGAGGCAAGCCGAGAGTCAA
GTCCGAGCTCCTCATCCAGATGGATGGAGTTGGAGGAGCCTTAGAAAAATGATGCCCATCCAAAAATGGTG
ATGGTCTGGCTGCTACGAACTTCCGTGGGACATTGATGAGGCTCTGCGCAGGAGACTAGAGAAAAGGA
TTACATTCTCTCCCGACAGCAAAGGAAGAGCGGAGCTCCTGAAGATCAGCCTCCGGGAGGTAGAGCT
GGACCCCGATGTCCACCTGGAGGACATCGCCGACAAGACGGAGGGCTACTCGGGTGCCGACATCACTAAC
ATCTGCAGGGACGCTTCTTTGATGGCGATGAGGCGGCATCAATGGCTTGAAGTCCGGAAGAGATCCGGG
CCCTGTCCAAGGAGGAGCTGCAGATGCCTGTACCAGAGGGGACTTGGAGTTGGCTCTGAAGAAAATCGC
CAAGTCTGTCTCAGCGGCAGACCTGGAGAAGTACGAAAAGTGGATGGTTGAGTTGGGTCTGCATGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-MluI

ACCN: NM_153572

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_153572.2](#), [NP_705800.1](#)

RefSeq Size: 6173 bp

RefSeq ORF: 1467 bp

Locus ID: 231912

UniProt ID: [Q8K0T4](#)

Cytogenetics: 5 G3

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 (PubMed:22654668). Has microtubule-severing activity in vitro (By similarity).[UniProtKB/Swiss-Prot Function]