

## Product datasheet for **SC127918**

### **KATNAL1 (NM\_032116) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	KATNAL1 (NM_032116) Human Untagged Clone
Tag:	Tag Free
Symbol:	KATNAL1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_032116, the custom clone sequence may differ by one or more nucleotides

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ATGAATTTGGCTGAGATTTGTGATAATGCAAAGAAAGGAAGAGAATATGCCCTTCTTGGAAATTACGACT
CATCAATGGTATATTACCAGGGGGTGTGCAGCAGATTAGAGACATTGCCAGTCAGTCAGAGATCCAGC
TATCAAAGGCAATGGCAACAGGTTTCGGCAGGAATTATTGGAGGAATATGAACAAGTTAAAAGTATTGTC
AGCACTTTAGAAAAGTTTTAAAATTGACAAGCCTCCAGATTTCCCTGTGTCTGTCAAGATGAACCATTTA
GAGATCCTGTCTTTGGCCACCCCTGTTCCTGCAGAACAGAGCTCCACCTCAGATCAGGCGTCCCAA
TCGAGAAGTAAGACCTCTGAGGAAAGAAATGGCAGGAGTAGGAGCCCGGGGACCTGTAGGCCGAGCACAT
CCTATATCAAAGAGTGAAAAGCCTTCTACAAGTAGGGACAAGGACTATAGAGCAAGAGGGAGAGATGACA
AGGGAAGGAAGAATATGCAAGATGGTGAAGTGATGGTGAAATGCCAAAATTTGATGGTGTGTTATGA
TAAGGATCTGGTGAAGCCCTTGAAGAGACATTGTATCCAGGAATCCTAGCATTATTGGGATGACATA
GCAGATCTGGAAGAAGCTAAGAAGTTGCTAAGGGAAGCTGTTGTTCTTCCAATGTGGATGCCTGACTTTT
TCAAAGGGATTAGAAGGCCATGGAAGGGTGTACTGATGGTTGGACCCCGAGGCACTGGTAAAATGCT
AGCTAAAGCTGTTGCCACTGAATGTGGTACAACATTCTCAACGTTTCGTCTTCTACACTGACATCTAAA
TACAGAGGTGAATCTGAGAAGTTAGTTCGTCTGTTGTTTGAGATGGCTAGATTTTATGCCCTACCACGA
TCTTCATTGATGAGATAGATTCTATCTGCAGTCGAAGAGGAACCTCTGATGAACATGAGGCAAGTCGCAG
GGTCAAGTCTGAACTGCTCATTAGATGGATGGAGTTGGAGGAGCTTTAGAAAATGATGATCCTTCCAAA
ATGGTTATGGTATTGGCTGCTACTAATTTCCCGTGGGACATTGATGAAGCTTTGCGAAGAAGGTTAGAAA
AAAGGATATATACCTCTCCCAACAGCAAAAAGGAAGAGCTGAGCTTCTGAAGATCAACCTTCGTGAGGT
CGAATTAGATCCTGATATTCAACTGGAAGATATAGCCGAGAAGATTGAGGGCTATTCTGGTGTGACATC
ACTAATGTTTGCAGGGATGCCTCTTTAATGGCAATGAGACGGCGTATCAATGGCTAAGTCCAGAAGAAA
TCCGTGCACTTTCTAAAGAGGAACCTCAGATGCCTGTTACCAAAGGAGACTTTGAATTGGCCCTAAAGAA
AATTGCTAAGTCTGTCTGTCTGCTGCAGACTTGGAGAAGTATGAAAATGGATGGTTGAATTTGGATCTGCT
TGA
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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_032116 unedited</p> <pre>TTCACGCACGTCGCGAGCTAACGGACTCGGCGGCGGCGGCGGCGGCCTGCGCCCCAC CCGCACCCCATCTGGACCGCATCGCTGAATGTGCCCGGACCTGCGCCTTCTGGGTCTCTG AAAGAAGATGAATTTGGCTGAGATTTGTGATAATGCAAAGAAAGGAAGAGAATATGCCCT TCTTGGAAATTACGACTCATCAATGGTATATTACCAGGGGGTGATGCAGCAGATTGAGAG ACATTGCCAGTCAGTCAGAGATCCAGCTATCAAAGGCAAATGGCAACAGGTTTCGGCAGGA ATTATTGGAGGAATATGAACAAGTTAAAAGTATTGTCAGCACTTTAGAAAGTTTTAAAAT TGACAAGCCTCCAGATTTCCCTGTGCTCAAGATGAACCATTTAGAGATCCTGCTGT TTGGCCCNCCCTGTTCTGCAGAACACAGAGCTCCACCTCAGATCAAGCGTCCCAATCGA GAAGTAGACCTCTGAGGANAGATATGGCAGGAGTAGGAGCCCGGGGACCTGTATGCCGAG CACATCTATATCAAAGAGGGAAAAGCCTTCTACAAGTAGGGACAAGGACTATAGAGCAA GAGGGAGAGATGACAAGGAAAGAAGATTGCAAGATGGGGCAGGGATGGTAAAGCCAAA TTTGGAGGTGCTGGTTATGAAAGGATCTGGGGAAAAGCTCTGGAAGAGACATTGTTTCAG AATTCTAGCATCCATGGGAAGGCTTAGCGATCTTGGAGAAGCTTAAAAGTTGCTAAGGGAA GCTGTTGTTCTTCAATGTCTTNGCCNGACTTTCNAAGGGATAAAAAGGCATGAAAGCGGC CTTGTT</pre>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_032116 unedited</p> <pre>ACAAGGCCCTACGGTGGACCGGNCGCATTCTAGGATCGGTTTTTTTTTTTTTTTTTTTT TTTTTTTTTTTTTTTTTTTTTACCAACTTTATAAATTTATTACCAAATATAACCTATG CCCAAACACAGCTAAGCTAATGAGATTAGCAAAGTACCAGCCAAAAGGTAAGGAAAAAC ACATTTAATAAATACAACTTGGAAACGCCTTTTTCTTTAAATTAGGTTCAAACACTGGGA GACAAACTGAAACAAAAGTCTTAACAACGCATTACAACCCCATATAACATGCAGGGA TCCCGCGAAACACTGGGTTCCCTCACACCCTGGCCACCTGCGGGCTCACCCCTGTGCG CTCCCGTTTCTACTCCCGCCCTCTTCAATTCGTATCTGCCTCGCTTCCCCCCTCC CCCTCCTCTCACCTCCTACCGCCCTCCCGTCTCTCCTCTCTTTCTCTCCTTCCC CTTTCTCGTCCCCCCCCCTCCCTCCTTTTTCTTCCGCCCTCCCGACTTTCCTG CCCCCCTCCCCCTCCATACCTCCTACAGTCTCACAGTAGTCCCTCTCTCCCTCGGCC TCACGTCCCCCTATCCCCCTCGTCCCCCGCCCCCGCCCCGCCCCGCCCCCCCC GACTCCCCACCACACTATCGTCTCGTCTTCCCTCCATCCCTGTAGCTCCGCTCCG ACCGCCCCCTATCCCAATACTATTCTCCACTATATCTTCTCTCATTGCTCCCCACTA CCCCACCTATCCTTTCATCACTTTCTTCTACTTCTCACTTTGTCTCCGCCCATAGT TTCCCTTACCCACCAACAACATCACCATCCCTGTAT</pre>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_032116
<b>Insert Size:</b>	4700 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_032116.3</a> , <a href="#">NP_115492.1</a>
<b>RefSeq Size:</b>	7536 bp
<b>RefSeq ORF:</b>	1473 bp
<b>Locus ID:</b>	84056
<b>UniProt ID:</b>	<a href="#">Q9BW62</a>
<b>Cytogenetics:</b>	13q12.3
<b>Domains:</b>	AAA, AAA
<b>Gene Summary:</b>	<p>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 (PubMed:26929214).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents the longer transcript. Both variants 1 and 2 encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>