

Product datasheet for **SC310331**

KATNA1 (NM_007044) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KATNA1 (NM_007044) Human Untagged Clone
Tag:	Tag Free
Symbol:	KATNA1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_007044 edited
 GGGACCCCGATTTCAGGGCCGGGCTGGTGAGGGAAGCTCGGGGGGCCACAGCGAGAAC
 CCGCCGCGCAACCTCCGTGAGCCTGCCTGTGCCTGAGCTGAGGTCTAGGTCTTGCTG
 TTGTCCACGATAACTTGGCTTAGGTGACAGTCCCCCTACCTGAGGAATCCTGTCAGGCGG
 AGGACTTTTCGGGGGCTCCTGTCGATCCCATCTTTGATCTGTGTCGTTAGCGAAGTCAC
 CAGCCGAGTTTTAGTTCTTCGATTTTCGACTGGTCTCTCCAGAACCCGCTCACGCCC
 CCCACCCCGAAACCTCACAGCTTACAGTTGAACATGAGTCTTCTATGATTAGTGAGAA
 TGTAAAATTGGCTCGTGAATATGCATTGCTGGGAACTATGACTCTGCGATGGTCTATTA
 TCAGGGAGTTCTTGACCAAATGAACAAGTATCTGTACTCAGTCAAAGATACATACCTCCA
 GCAGAAATGGCAACAGGTTTGGCAGGAAATAAATGTGGAAGCTAAACATGTTAAAGATAT
 CATGAAAACACTAGAGAGCTTTAACTGGACAGCACTCCCTTGAAAGCGGCACAGCATGA
 CCTTCCAGCTTCTGAGGGAGAAGTCTGGTCCATGCCTGTACCTGTTGAACGAAGACCTC
 ACCAGGACCTAGAAAACGCCAATCTTCTCAGTACAGTGACCCTAAATCACATGGTAATCG
 TCCAAGTACAACGTGTCAGAGTTCACCGTTCATCTGCACAGAATGTTACAATGACAGAGG
 GAAAGCTGTTGCTGTGCTGAAAAGAAAGAACAGAATAAAGGAAGAGAGGAAAAGAACAA
 ATCACCTGCTGCAGTAACAGAACAGAGACAAATAAATTTGATAGTACCGGATATGATAA
 AGACTTAGTAGAAGCTTTGGAAAGAGATATAATTTCCAGAAATCCAATGTTGATGGGA
 TGATATCGCTGATTTAGTAGAAGCTAAAAAGTTGCTTAAGGAAGCCGTAGTGTTACCAAT
 GTGGATGCCCGAATCTTTAAGGGCATTAGGAGACCATGGAAAGGAGTACTGATGGTCGG
 CCCACCTGGCACGGGGAAGACGCTCCTTGCTAAAGCAGTAGCTACAGAATGCAAGACAAC
 ATCTTCAATGTCTTTCATCAACTTTGACTTCCAAATACAGAGGAGAATCTGAGAAGCT
 TGTTGCTCTTCTGTTTGAATGGCTCGATTTTATTCTCCAGCCACCATATTTATTGATGA
 GATAGACTCCATCTGTAGTCGCCGAGGGACTTCTGAAGAACATGAAGCAAGCAGAAGGGT
 GAAAGCGGAGCTGCTGGTTCAGATGGATGGTGGTGGAGGTACTTCTGAAAATGATGACCC
 TTCCAAAATGGTTATGGTCTGGCAGCTACTAATTTCCCTGGGATATAGATGAGGCTTT
 AAGACGACGCCTTGAGAAACGAATCTATATTCCTTGCCGTGAGCAAAAGGCAGGGAGGA
 GCTATTACGAATAAGTCTACGTGAGTTGGAATTGGCTGATGATGTTGACCTTGCAAGTAT
 AGCAGAAAACATGGAAGGTTATTCAGGTGCGGACATTACCAACGTGTGCAGGGATGCGTC
 CTTGATGGCAATGAGAAGGCGCATTGAAGGTTTACTCCAGAGGAAATCCGAAATCTTTC
 CAAAGAAGAAATGCACATGCCTACAATATGGAGGATTTGAGATGGCTTTAAAAAAGGT
 TTCTAAGTCAGTGTCTGCTGCAGACATTGAAAGATACGAGAAATGGATATTTGAGTTTGG
 ATCATGCTAAATTCTCACATGTAACTGTGAGAAATGTGCCTTAAGTGATAGAATATTAA
 AAGCGCCTTTTAGTAACAAT

Restriction Sites: Please inquire

ACCN: NM_007044

Insert Size: 2000 bp

OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery. 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:	The ORF of this clone matches with NM_007044.2. 5' and 3' UTRs of this clone are longer than the reference.
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_007044.2 , NP_008975.1
RefSeq Size:	1532 bp
RefSeq ORF:	1476 bp
Locus ID:	11104
UniProt ID:	O75449
Cytogenetics:	6q25.1
Domains:	AAA, AAA
Gene Summary:	Microtubules, polymers of alpha and beta tubulin subunits, form the mitotic spindle of a dividing cell and help to organize membranous organelles during interphase. Katanin is a heterodimer that consists of a 60 kDa ATPase (p60 subunit A 1) and an 80 kDa accessory protein (p80 subunit B 1). The p60 subunit acts to sever and disassemble microtubules, while the p80 subunit targets the enzyme to the centrosome. This gene encodes the p80 subunit. This protein is a member of the AAA family of ATPases. Multiple alternatively spliced variants, encoding the same protein, have been identified. [provided by RefSeq, Feb 2011] Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).