

Product datasheet for **RC239191**

SUV420h1 (KMT5B) (NM_001300908) Human Tagged ORF Clone

Product data:

| | |
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| Product Type: | Expression Plasmids |
| Product Name: | SUV420h1 (KMT5B) (NM_001300908) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | KMT5B |
| Synonyms: | CGI-85; CGI85; MRD51; SUV420H1 |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Cell Selection: | Neomycin |



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ORF Nucleotide
Sequence:

>RC239191 representing NM_001300908
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGCATCGCC

ATGCTACTTAGACATGGAGAAAACGACTTCAGTGTCTACTCCACAAGGAAAACTGTGCTCACTCT
GGCTGGGTCTGCTGCGTTTATAAACCATGATTGCAGACCTAATTGTAAGTTTGTGTCAACTGGTCGAGA
TACAGCATGTGTGAAGGCTCTAAGAGACATTGAACCTGGAGAAGAAATTTCTTGTATTATGGAGATGGG
TTCTTTGGAGAAAATAATGAGTTCTGCGAGTGTTACACTTGCGAAAGACGGGGCACTGGTCTTTAAAT
CCAGAGTGGGACTGCCTGCGCCTGCTCCTGTTATCAATAGCAAATATGGACTCAGAGAAACAGATAAACG
TTTAAATAGGCTTAAAAAGTTAGGTGACAGCAGCAAAAATTCAGACAGTCAATCTGTCTGCTAACACT
GATGCAGATACCACTCAGGAAAAACAATGCAACTTCTAACCGAAAATCTTCAGTTGGCGTAAAAAAGA
ATAGCAAGAGCAGAACGTTAACGAGGCAATCTATGTCAAGAATCCAGCTTCTTCCAACCTACCTCATC
TAAGCTAACTCATATAAATAATCCAGGGTACCAAGAAAAGCTGAAGAAGCCTGCAAGCCTTTACTTTCA
AAGATAAAATGAGAAATCATTGCAAGCGGCTGGAGCAAAAAGAAATGCTTCAAGAAAAGCTGAAATGGGAA
ACTTAGTACTGAAAGAGCCTAAAGTAGTTCTGTATAAAAAATTTGCCCATTAAGAAAAGATAAAGGAGCCAGA
GGGACCAGCCCAAGCCGAGTTGCCAGCGGGTGGCTTGACTAGACACGCGCGAGAGAACACAGACAGAAT
CCTGTGAGAGGTGCTCATTGCGAGGGGAGAGCTCGCCCTGCACCTACATAAAGCTGGCGGTGAGTGGGA
CAAGAACAATCTGAAGGAGGCTCTGACATCAAGCTTGAACCAATACGTTGAATGGCTATAAAGCAG
TGTGACGGAACCTTGCCCGACAGTGGTGAACAGCTGCAGCCAGCTCCTGTGCTGAGGAGGAAGAAGT
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CACGACAAGGAAAACCTTGTGAAACAGTTTGCAAAAATAGAGGAATCTACTCCAGTGCACGATTCTCCTGG
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AAAAATCCAGCTAAAACGAGATGAGGAAAATAGGGGTCTTATACAGAGGGGCTTATGAAAATGGGGTG
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AAAGTACAGATGATTCTCCTCTTCTGAGGGCGATGAAGAGGAGGATGACTATGATGATGACTTTGAAGA
CGATTTTATTCCTCTTCCAGCTAAGCGCTTGAAGTTAATAGTTGAAAAGACTCTATAGATATTGAC
ATTTCTTCAAGGAGAAGAGAAGATCAGTCTTAAGGCTTAATGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC239191 representing NM_001300908
 Red=Cloning site Green=Tags(s)

MLLRHGENDFSVMYSTRKNCAQLWLGPAAFINHDCRPNCKFVSTGRDTACVKALRDIPEGEEISCYYGDG
 FFGENNEFCCEYTCERRGTGAFKSRVGLPAPAPVINSKYGLRETDKRLNRLKKGSSKNSDSQSVSNT
 DADTTQEKNATSNRKS SVGVKKNKSRTLTRQMSRIPASSNSTSSKLTHINNSRVPKLKKPAKPLLS
 KIKLRNHCKRLEQKNASRKLMEGNLVLKEPKVVLYKNLPIKKDKEPEGPAQA AVASGCLTRHAAREHRQN
 PVRGAHSQGESSPTYITRRSVRTRTNLKEASDIKLEPNTLNGYKSSVTEPCPDSGEQLQPAPVLQEEEL
 AHETAQKGEAKCHKSDTGMSKKKSRQGLVKQFAKIEESTPVHDS PGKDDAVPDLMGPHSDQGEHSGTVG
 VPVSYTDCAPSPVGC SVVTSDFSFKTKDSFRTAKSKKKRRI TRYDAQLILENNSGIPKLT LRRRHDSSTK
 NDQENDGMNSSKISIKLSKDHDNDNLYVAKLNNGFN SSGSSSTK LKIQLKRDEENRGSYTEGLHENG
 CCSDPLSLLSRMEVDDYSQYEEESTDDSSSEGDEEEDDYDDDFEDDFIPLPPAKRLRLIVGKDSIDID
 ISSRRREDQSLRLNA

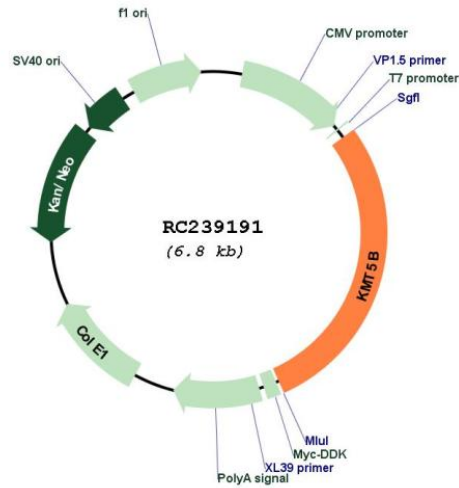
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_001300908

ORF Size: 1935 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: [NM_001300908.2](#)

RefSeq Size: 5802 bp

RefSeq ORF: 1938 bp

Locus ID: 51111

Cytogenetics: 11q13.2

Protein Families: Druggable Genome

Protein Pathways: Lysine degradation

MW: 72 kDa

Gene Summary: This gene encodes a protein that contains a SET domain. SET domains appear to be protein-protein interaction domains that mediate interactions with a family of proteins that display similarity with dual-specificity phosphatases (dsPTPases). The function of this gene has not been determined. Several alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2014]