

## Product datasheet for **RC239387**

### **SUV420h1 (KMT5B) (NM\_001300907) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	SUV420h1 (KMT5B) (NM_001300907) 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:**

>RC239387 representing NM\_001300907  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCAGGAGAAATTATTCAAAGAACATGTATTTATTTATTTGCGAATGTTTGCAACTGACAGTGGATTTG  
 AAATATTGCCATGTAATAGATACTCATCAGAACAAAATGGAGCCAAAATAGTTGCAACAAAAGAGTGGAA  
 ACGAAATGACAAAATAGAATTACTGGTGGGTTGTATTGCCGAACTTTCAGAAATTGAGGAGAACATGCTA  
 CTAGACATGGAGAAAACGACTTCAGTGTACTCCACAAGGAAAACTGTGCTCAACTCTGGCTGG  
 GTCCTGCTGCGTTTATAAACCATGATTGCAGACCTAATTGTAAGTTTGTGCAACTGGTCGAGATACAGC  
 ATGTGTGAAGGCTCTAAGAGACATTGAACCTGGAGAAGAAATTTCTTGTATTATGGAGATGGGTTCTTT  
 GGAGAAAATAATGAGTTCTGCGAGTGTTACTTGGCAAAGACGGGGCACTGGTGTCTTTAAATCCAGAG  
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 GATACCACTCAGGAAAAACAATGCAACTTCTAACCGAAAATCTTCAGTTGGCGTAAAAAGAATAGCA  
 AGAGCAGAACGTTAACGAGGCAATCTATGTCAAGAATTCAGCTTCTTCCAACCTCACTCATCTAAGCT  
 AACTCATATAAATAATCCAGGGTACCAAAGAACTGAAGAAGCCTGCAAAGCCTTTACTTTCAAAGATA  
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 TACTGAAAGAGCCTAAAGTAGTTCTGTATAAAAAATTTGCCATTAAAAAGATAAGGAGCCAGAGGGACC  
 AGCCAAAGCCGACGTTGCCAGCGGTGCTTGACTAGACACGCGGCGAGAGAACACAGACAGAATCCTGTG  
 AGAGGTGCTCATTGCGAGGGGAGAGCTCGCCCTGCACCTACATAACTCGGCGGTGAGTGGGACAAAGAA  
 CAAATCTGAAGGAGCCCTCTGACATCAAGCTTGAACCAAATACGTTGAATGGCTATAAAAAGCAGTGTGAC  
 GGAACCTTGCCCGACAGTGGTGAACAGCTGCAGCCAGCTCCTGTGCTGCAGGAGGAAGAAGTGGCTCAT  
 GAGACTGCACAAAAGGGGAGGCAAAAGTGTCAAGAGTGACACAGGCATGTCCAAAAAGAAGTCCAGC  
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 CGACGCGGTACCAGATTTGATGGGTCCCATTTCTGACCAGGTGAGCACAGTGGCACTGTGGGCGTGCCT  
 GTGAGCTACACAGACTGTGCTCCTTCAACCGTGGTGTTCAGTTGTGACATCAGATAGCTTCAAACAA  
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 CCAGCTAAAACGAGATGAGGAAAATAGGGGGTCTTATACAGAGGGGCTTCATGAAAATGGGGTGTGCTGC  
 AGTGATCCTCTTCTCTTGGAGTCTCGAATGGAGGTGGATGACTATAGTCAGTATGAGGAAGAAAGTA  
 CAGATGATTCCTCCTTCTGAGGGCGATGAAGAGGAGGATGACTATGATGACTTTGAAGACGATTT  
 TATTCCTCTTCTCCAGCTAAGCGCTTGAGGTTAATAGTTGAAAAGACTCTATAGATATTGACATTTCT  
 TCAAGGAGAAGAGAAGATCAGTCTTTAAGGCTTAATGCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC239387 representing NM\_001300907  
 Red=Cloning site Green=Tags(s)

MQEKLKFEHVFYILRMFATDSGFEILPCNRYSSSEQNGAKIVATKEWKRNDKIELLVGCIAELSEIEENML  
 LRHGENDFSVMYSTRKNCAQLWLGPAAF INHDCRPNCKFVSTGRDTACVKALRDIEPGEEISCYYGDF  
 GENNEFCECYTCERRGTGAFKSRVGLPAPAPVINSKYGLRETDKRLNRLKKGDSKNSDSQSVSSNTDA  
 DTTQEKNNATSNRKSSVGVKKNKSRRTL TRQSMSRIPASSNSTSSKL THINNSRVPKLKKPAKPLL SKI  
 KLRNHCKRLEQKNASRKLEMGNLVLEKPKVVLYKNLPIKKDKEPEGPAQA AVASGCLTRHAAREHRQNPV  
 RGAHSQGESSPCTYITRRSVRTRTNLKEASDIKLEPNTLNGYKSSVTEPCPDSGEQLQPAPVLQEEELAH  
 ETAQKGEAKCHKSDTGMSKKKSRQGLVKQFAKIEESTPVHDSGKDDAVPDLMGPHSDQGEHSGTVGVP  
 VSYTDCAPSPVGC SVVTSDFSFKTDSFRTAKSKKKRITRYDAQLILENNSGIPKLT LRRRHSSSKTND  
 QENDGMNSSKISIKL SKDHDNDNNLYVAKLNNGFNSGSGSSSTKLKIQKRDEENRGSYTEGLHENGVCC  
 SDPLSLLES RMEVDDYSQYEEESTDDSSSEGD EEDDYDDDFEDDFIPLPPAKRLRLIVGKDSIDIDIS  
 SRRREDQSLRLNA

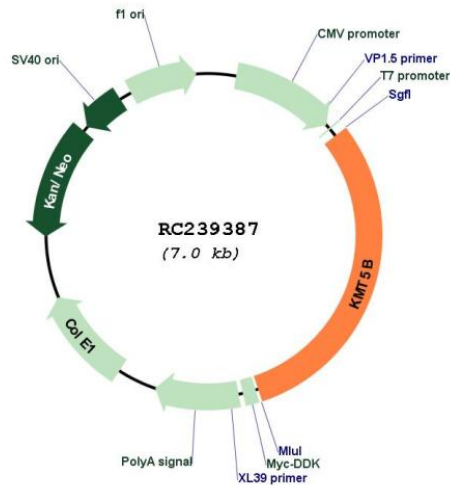
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



**Plasmid Map:**


**ACCN:** NM\_001300907

**ORF Size:** 2139 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\\_001300907.1](#), [NP\\_001287836.1](#)

**RefSeq Size:** 5835 bp

**RefSeq ORF:** 2142 bp

<b>Locus ID:</b>	51111
<b>Cytogenetics:</b>	11q13.2
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Lysine degradation
<b>MW:</b>	80 kDa
<b>Gene Summary:</b>	<p>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]</p>