

## Product datasheet for **RC237783**

### SUV420h1 (KMT5B) (NM\_001300909) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SUV420h1 (KMT5B) (NM_001300909) 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
ORF Nucleotide Sequence:	>RC237783 representing NM_001300909 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAAGTGGTTGGGAGAATCCAAGAACATGGTGGTGAATGGCAGGAGAAATGGAGGCAAGTTGTCTAATG  
ACCATCAGCAGAATCAATCAAAATTACAGCACACGGGAAAGGACACCCTGAAGGCTGGCAAAAATGCAGT  
CGAGAGGAGGTCAACAGATGTAATGGTAACTCGGGATTTGAAGGACAGAGTCGCTATGTACCATCCTCT  
GGAATGTCCGCCAAGGAACTCTGTGAAAATGATGACCTAGCAACCAAGTTGGTTCCTGATCCCTATTTAG  
GTTTTCAAACACAAAAATGAATACTAGATTTAGGCCTATTAAGGAAGGCAGGAAGAATAAAGGAAGT  
AATTGAACGTTTTAAGAAAGATGAACACTTGGAGAAAGCCTTCAAATGTTTGACTTCAGGCGAATGGGCA  
CGGCACTATTTTCTCAACAAGAAATAAAATGCAGGAGAAATTAATCAAAGAACATGATTTATTTATTTGC  
GAATGTTTGCAACTGACAGTGGATTTGAAATATTGCCATGTAATAGATACTCATCAGAACAAAATGGAGC  
CAAAATAGTTGCAACAAAAGAGTGGAACGAAATGACAAAATAGAATTACTGGTGGTTGTATTGCCGAA  
CTTTCAGAAATGAGGAGAACATGCTACTTAGACATGGAGAAAACGACTTCAGTGTCACTACTCCACAA  
GGAAAACTGTGCTCAACTCTGGCTGGTCTGCTGCTTTATAAACCATGATTGCAGACCTAATTTGTA  
GTTTGTGTCAACTGGTCGAGATACAGCATGTGTAAGGCTCTAAGAGACATTGAACCTGGAGAAGAAAT  
TCTTGTTATTATGGAGATGGGTTCTTTGGAGAAAATAATGAGTTCGCGAGTGTTACACTTGCGAAAGAC  
GGGCACTGGTGTCTTTAAATCCAGAGTGGGACTGCCTGCGCCTGCTCCTGTTATCAATAGCAAATATGG  
ACTCAGAGAAACAGATAAACGTTTAAATAGGCTTAAAAAGTTAGGTGACAGCAGCAAAAATTCAGACAGT  
CAATCTGCAGCTCTAACACTGATGCAGATACCACTCAGGAAAAAACAATGCAAGTAAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC237783 representing NM\_001300909  
 Red=Cloning site Green=Tags(s)

MKWLGESKNMNVNRRNGGKLSNDHQNQSKLQHTGKDTLKAGKNAVERRSNRCNGNSGFEGQSRYVPSS  
 GMSAKELCENDDLATSLVLDPYLGFQTHKMNTRFRPIKGRQEELKEVIERFKKDEHLEKAFKCLTSGEWA  
 RHYFLNKNMQEKLFEKHFVIYLRMFATDSGFEILPCNRYSSSEQNAKIVATKEWKRNDKIELLVGCI  
 LSEIEENMLLRHGENDFSVMYSTRKNCAQLWLGPAAFINHDCRPNCKFVSTGRDTACVKALRDIEP  
 GEEISCYYGDFGFGENNEFCCEYTCERRGTGAFKSRVGLPAPAPVINSKYGLRETDKRLNRLKKG  
 DSSKNSDSQSVSSNTDADTTQEKNNASK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

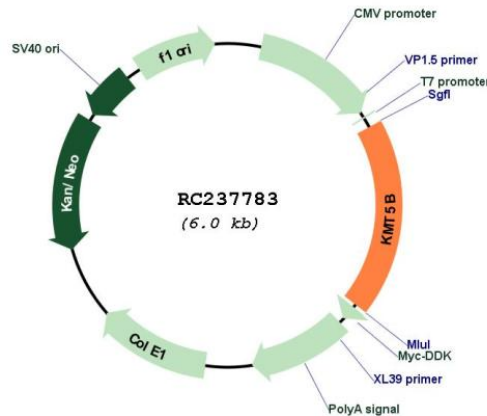
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001300909

<b>ORF Size:</b>	1110 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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_001300909.2</a>
<b>RefSeq Size:</b>	2758 bp
<b>RefSeq ORF:</b>	1113 bp
<b>Locus ID:</b>	51111
<b>UniProt ID:</b>	<a href="#">Q4FZB7</a>
<b>Cytogenetics:</b>	11q13.2
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Lysine degradation
<b>MW:</b>	42.5 kDa
<b>Gene Summary:</b>	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]