

## Product datasheet for **RG212182**

### **SUV420h1 (KMT5B) (NM\_017635) Human Tagged ORF Clone**

#### **Product data:**

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids                                 |
| Product Name:             | SUV420h1 (KMT5B) (NM_017635) Human Tagged ORF Clone |
| Tag:                      | TurboGFP  |
| Symbol:                   | SUV420h1  |
| Synonyms:                 | CGI-85; CGI85; MRD51; SUV420H1                      |
| Mammalian Cell Selection: | Neomycin  |
| Vector:                   | pCMV6-AC-GFP (PS100010)                             |
| E. coli Selection:        | Ampicillin (100 ug/mL)                              |



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**ORF Nucleotide  
Sequence:**

>RG212182 representing NM\_017635  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGAAGTGGTTGGGAGAATCCAAGAACATGGTGGTGAATGGCAGGAGAAATGGAGGCAAGTTGTCTAATG  
 ACCATCAGCAGAATCAATCAAAATTACAGCACACGGGGAAGGACACCCCTGAAGGCTGGCAAAAATGCAGT  
 CGAGAGGAGGTCGAACAGATGTAATGGTAACTCGGGATTTGAAGGACAGAGTCGCTATGTACCATCTCT  
 GGAATGTCCGCCAAGGAACCTGTGAAAATGATGACCTAGCAACCAAGTTGGTTCTTGATCCCTATTTAG  
 GTTTTCAAACACACAAAATGAATACTAGCGCCTTTCTTCGAGGAGCTCAAGGCATTTTTCAAATCTGA  
 CAGTTTTTCTCACAACAACCTGTGAGATTTAGGCCTATTAAGGAAGGCAGGAAGAACTAAAGGAAGTA  
 ATTGAACGTTTTAAGAAAGATGAACACTTGAGAAAAGCCTTCAAATGTTTGACTTCAGGCGAATGGGCAC  
 GGCATTTTTCTCAACAAGAATAAAATGCAGGAGAAATATTCAAAGAACATGTATTTATTTATTTGCG  
 AATGTTTGCAACTGACAGTGGATTTGAAATATTGCCATGTAATAGATACTCATCAGAACAAAATGGAGCC  
 AAAATAGTTGCAACAAAAGAGTGGAAAACGAAATGACAAAATAGAATTACTGGTGGGTTGTATTGCCGAAC  
 TTTCAGAAAATTGAGGAGAACATGCTACTTAGACATGGAGAAAACGACTTCAGTGTGATGACTCCACAAG  
 GAAAACTGTGCTCAACTCTGGCTGGGTCTGCTGCGTTATAAACCATGATTGCAGACCTAATTGTAAG  
 TTTGTGCAACTGGTCGAGATACAGCATGTGTGAAGGCTCTAAGAGACATTGAACCTGGAGAAGAAATTT  
 CTTGTTATTATGGAGATGGGTTCTTTGGAGAAAATAATGAGTTCTGCGAGTGTTACACTTGCGAAAGACG  
 GGGCACTGGTGCTTTTAAATCCAGAGTGGGACTGCCTGCGCTGCTCCTGTTATCAATAGCAAATATGGA  
 CTCAGAAAACAGATAAACGTTTAAATAGGCTTAAAAAGTTAGGTGACAGCAGCAAAAATTCAGACAGTC  
 AACTGTGACGCTAACACTGATGCAGATACCCTCAGGAAAAACAATGCAACTTCAACCGAAAATC  
 TTCAGTTGGCGTAAAAAAGAATAGCAAGAGCAGAACGTTAACGAGGCAATCTATGTCAAGAATTCAGCT  
 TCTTCCAACCTACCTCATCTAAGCTAACTCATATAAATAATTCCAGGTTACCAAAGAACTGAAGAAGC  
 CTGCAAAGCCTTTACTTTCAAAGATAAAATGAGAAAATCATTGCAAGCGGCTGGAGCAAAAAGAAATGCTTC  
 AAGAAAACCTCGAAATGGGAACTTAGTACTGAAAGAGCCTAAAGTAGTTCTGTATAAAAAATTTGCCATT  
 AAAAAAGATAAGGAGCCAGAGGGACCAGCCCAAGCCGAGTTGCCAGCGGGTCTTGACTAGACACGCGG  
 CGAGAGAACACAGACAGAATCCTGTGAGAGGTGCTCATTGCGAGGGGAGAGCTCGCCCTGCACCTACAT  
 AACTCGGCGGTGAGTGAAGACAAGAACAATCTGAAGGAGGCTCTGACATCAAGCTTGAACCAAATACG  
 TTGAATGGCTATAAAAGCAGTGTGACGGAACCTTGCCCGACAGTGGTGAACAGCTGCAGCCAGCTCCTG  
 TGCTGCAGGAGGAAGAACTGGCTCATGAGACTGCACAAAAGGGGAGGCAAGGTGCATAAGAGTGACAC  
 AGGCATGTCCAAAAGAAGTCAAGACAAGGAAAACCTGTGAAAACAGTTTGCAAAAATAGAGGAATCTACT  
 CCAGTGCACGATTCTCCTGGAAAAGACGACGCGGTACCAGATTTGATGGGTCCCCATTCTGACCAGGGTG  
 AGCACAGTGGCACTGTGGCGTGCCTGTGAGCTACACAGACTGTGCTCCTTACCCTGCGTTGTTGAGT  
 TGTGACATCAGATAGCTTCAAACAAAAGACAGCTTTAGAAGTGCAAAAGTAAAAAGAAGAGGCGAATC  
 ACAAGGTATGATGCACAGTTAATCCTAGAAAATAACTCTGGGATCCCAAATGACTCTTCGTAGGCGTC  
 AAGCAAAGACCATGACAACGATAACAATCTCTATGTAGCAAAGCTTAATAATGGATTTAACTCAGGATCA  
 GGCAGTAGTTCTACAAAATTAATAATCCAGCTAAAACGAGATGAGGAAAATAGGGGGTCTTATACAGAGG  
 GGCTTCATGAAAATGGGTTGTGCTGCAAGTATCCTCTTTCTCTTGGAGTCTCGAATGGAGGTGGATGA  
 CTATAGTCAGTATGAGGAAGAAAGTACAGATGATTCTCCTCTTCTGAGGGCGATGAAGAGGAGGATGAC  
 TATGATGATGACTTTGAAGACGATTTTATCTCTTCTCCAGCTAAGCGCTTGAGGTTAATAGTTGGAA  
 AAGACTCTATAGATATTGACATTTCTTCAAGGAGAAGAGAAGATCAGTCTTTAAGGCTTAATGCC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

Protein Sequence: >RG212182 representing NM\_017635  
 Red=Cloning site Green=Tags(s)

MKWLGESKNMNVNRRNGGKLSNDHQNQSKLQHTGKDTLKAGKNAVERRSNRCNGNSGFEGQSRYPVSS  
 GMSAKELCENDDLATSLVLDPYLGFQTHKMNTSAFPPSRSSRHF SKSDSF SHNNPVRF RPIKGRQEELKEV  
 IERFKKDEHLEKAFKCLTSGEWARHYFLNKNKMQEKL FKEHVFIYLRFATDSGFEILPCNRYSSSEQNGA  
 KIVATKEWKRNDKIELLVGCI AELSEIEENMLLRHGENDF SVMYSTRKNCAQLWLGPAAF INHDCRPNCK  
 FVSTGRDTACVKALRDIEPGEEISCIYGDGF GENNEFCECYTCERRGTGAFKSRVGLPAPAPVINSKYG  
 LRETDKRLNRLKKGDSKNSDSQSVSSNTDADTTQEKNNATSNRKSSVGVKKNKSRTLTRQSMSRIPA  
 SSNSTSSKLTHINNSRVPKLKKPAKPLL SKIKLRNHCKRLEQKNASRKLEMGNLVLKEPKVVLKYNLPI  
 KKDKEPEGPAQA AVASGCLTRHAAREHRQNPVRGAHSQGESSPCTYITRRSVRTRNLKEASDIKLEPNT  
 LNGYKSSVTEPCPDSGEQLQPAPVLQEEELAHETAQKGEAKCHKSDTGMSKKSRQGLVKQFAKIEEST  
 PVHDSPGKDDAVPDLMPHSDQGEHSGTVGVPVSYTDCAPSPVGCSSVTSDFSFKTKDSFRTAKSKKKRRI  
 TRYDAQLILENNSGIPKLT LRRRHDSSSKTNDQENDGMNSSKISIKLSKDHDNDNNLYVAKLNNGFNSSGS  
 GSSSTKLKIQKRDEENRGSYTEGLHENGVCSDPLSLLSRMEVDDYSQYEEESTDDSSSEGEDEEDD  
 YDDDFEDDFIPLPPAKRLRLIVGKDSIDIDISSRRREDQSLRLNA

TRTRPLE - GFP Tag - V

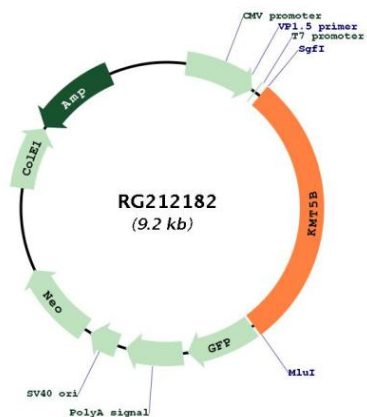
Restriction Sites: SgfI-MluI

Cloning Scheme:



|                               |   |
|-------------------------------|---|
| <b>ACCN:</b>                  | NM_017635   |
| <b>ORF Size:</b>              | 2655 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_017635.5</a>   |
| <b>RefSeq Size:</b>           | 4562 bp   |
| <b>RefSeq ORF:</b>            | 2658 bp   |
| <b>Locus ID:</b>              | 51111   |
| <b>UniProt ID:</b>            | <a href="#">Q4FZB7</a>  |
| <b>Cytogenetics:</b>          | 11q13.2   |
| <b>Domains:</b>               | SET   |
| <b>Protein Families:</b>      | Druggable Genome  |
| <b>Protein Pathways:</b>      | Lysine degradation  |
| <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]   |

Product images:



Circular map for RG212182