

Product datasheet for **RG221306**

SUV420h1 (KMT5B) (NM_016028) Human Tagged ORF Clone

Product data:

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|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | SUV420h1 (KMT5B) (NM_016028) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | KMT5B |
| Synonyms: | CGI-85; CGI85; MRD51; SUV420H1 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | >RG221306 representing NM_016028 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGTGGTTGGGAGAATCCAAGAACATGGTGGTGAATGGCAGGAGAAATGGAGGCAAGTTGTCTAATG
ACCATCAGCAGAATCAATCAAAATTACAGCACACGGGGAAGGACACCCCTGAAGGCTGGCAAAAATGCAGT
CGAGAGGAGGTCGAACAGATGTAATGGTAACTCGGGATTTGAAGGACAGAGTCGCTATGTACCATCCTCT
GGAATGTCGCCAAGGAACCTCTGTGAAAATGATGACCTAGCAACCAGTTTGGTCTTGATCCCTATTTAG
GTTTTCAAACACACAAAATGAATACTAGCGCCTTTCCTTCGAGGAGCTCAAGGCATTTTTCAAATCTGA
CAGTTTTCTCACAAACCCCTGTGAGATTTAGGCCTATTAAGGAAGGCAGGAAGAATAAGGAAGTA
ATTGAACGTTTTAAGAAAGATGAACACTGGAGAAAGCCTTCAAATGTTTGACTTCAGGCGAATGGGCAC
GGCACTATTTCTCAACAAGAATAAAATGCAGGAGAAATATTCAAAGAACATGTATTTATTTATTTGCG
AATGTTTGCAACTGACAGTGGATTTGAAATATTGCCATGTAATAGATACTCATCAGAACAAAATGGAGCC
AAAATAGTTGCAACAAAAGAGTGGAAACGAAATGACAAAATAGAATTACTGGTGGGTTGTATTGCCGAAC
TTTCAGAAATTGAGGAGAACATGCTACTTAGACATGGAGAAAACGACTTCAGTGTACTCCACAAG
GAAAAACTGTGCTCAACTCTGGCTGGTCTGCTGCGTTTATAAACCATGATTGCAGACCTAATTGTAAG
TTTGTCAACTGGTCGAGATACAGCATGTGTGAAGGCTAAGAGACATTGAACCTGGAGAAGAAATTT
CTTGTTATTATGGAGATGGGTTCTTTGGAGAAAATAATGAGTTCTGCGAGTGTTACACTTGCGAAAAGACC
GGGCACTGGTGTCTTTAAATCCAGAGTGGGACTGCCTGCGCCTGCTCCTGTTATCAATAGCAAATATGGA
CTCAGAGAAAACAGATAAACGTTTAAATAGGCTTAAAAAGTTAGGTGACAGCAGCAAAAATTCAGACAGTC
AATCTGTCAGCTTAACACTGATGCAGATACCACTCAGGAAAAAACAATGCAAGTAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG221306 representing NM_016028
 Red=Cloning site Green=Tags(s)

MKWLGESKNM VVNGRRNGGKLSNDHQNQSKLQHTGKDTLKAGKNAVERRSNRCNGNSGFEGQSRYPVSS
 GMSAKELCENDDLATSLVLDPYLGFQTHKMNTSAFPPSRSSRHF SKSDSF SHNNPVRFRPIKGRQEELKEV
 IERFKKDEHLEKAFKCLTSGEWARHYFLNKNKMQEKL FKEHVFIYLRMFATDSGFEILPCNRYSEQNGA
 KIVATKEWKRNDKIELLVGCIAELSEIEENMLLRHGENDF SVMYSTRKNCAQLWLGPAAF INHDCRPNCK
 FVSTGRDTACVKALRDIIEPGEEISCYYGDGF FGENNEFC ECYTCERRGTGAFKSRVGLPAPAPVINSKYG
 LRETDKRLNRLKKLGDSSKNSDSQSVSSNTDADTTQEKNNA SK

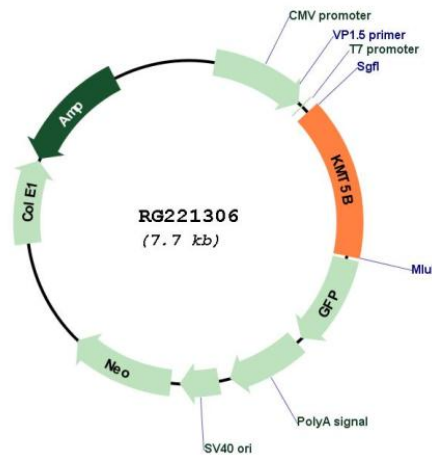
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_016028

| | |
|-------------------------------|---|
| ORF Size: | 1179 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: | <ol style="list-style-type: none">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_016028.4 , NP_057112.3 |
| RefSeq Size: | 2711 bp |
| RefSeq ORF: | 1182 bp |
| Locus ID: | 51111 |
| UniProt ID: | Q4FZB7 |
| Cytogenetics: | 11q13.2 |
| Domains: | SET |
| Protein Families: | Druggable Genome |
| Protein Pathways: | Lysine degradation |
| 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] |