

Product datasheet for **RG208219**

KMT5A (NM_020382) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KMT5A (NM_020382) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	KMT5A
Synonyms:	PR-Set7; PR/SET07; SET07; SET8; SETD8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG208219 representing NM_020382 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTAGAGGCAGGAAGATGTCCAAGCCCCGCGCGGTGGAGGCGGCGGGCGGGCGGGCGGTGGCAG
CGACGGCCCCGGGCCGAGATGGTGGAGCGGAGGGGCCGGGGAGGCCCGCACCGAGGGGAGAACGT
ATTTACCGGGCAGTCAAAGATCTATTCTACATGAGCCGAACAAATGCTCTGGAATGCGTTTCCCCTT
CAGGAAGAGAAGTACGTTACACATCACGAAGTCAAATGCCAGGGGAAACCATTAGCCGGAATCTACAGGA
AACGAGAAGAGAAAAGAAATGCTGGGAACGAGTACGGAGCGCCATGAAGTCCGAGGAACAGAAGATCAA
AGACGCCAGGAAAGTCCCTGGTACCTTTTCCAAACCAAAAATCTGAAGCAGCAGAACCTCCAAAACCT
CCACCCTCATCTTGTGATTCCACCAATGCAGCCATCGCCAAGCAAGCCCTGAAAAAGCCCATCAAGGGCA
AACAGGGCCCCGAAAAAAGCTCAAGGAAAAACGCAACAGAATCGCAAACCTTACGGATTCTACCCCTGT
CCGAAGGAGCTCCAGGAAGAGCAAGCCGAGCTGCAGTCTGAAGAAAGGAAAAGAATAGATGAATTGATT
GAAAGTGGGAAGGAAGAAGGAATGAAGATTGACCTCATCGATGGCAAAGGCAGGGGTGTGATTGCCACCA
AGCAGTTCTCCCGGGTGACTTTGTGGTGAATACCACGGGGACCTCATCGAGATCACCGACGCCAAGAA
ACGGGAGGCTCTGTACGCACAGGACCCTCCACGGGCTGCTACATGTACTATTTTCAGTATCTGAGCAA
ACCTACTGCGTGGATGCAACTAGAGAGACAAATCGCCTAGGAAGACTGATCAATCACAGCAAATGTGGGA
ACTGCCAAACCAAACTGCACGACATCGACGGCGTACGTACCTCATCCTCATCGCCTCCCGAGACATCGC
GGCTGGGAGGAGCTCCTGTATGACTATGGGGACCGCAGCAAGGCTTCCATTGAAGCCCACCCGTGGCTG
AAGCAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

Protein Sequence: >RG208219 representing NM_020382
 Red=Cloning site Green=Tags(s)

MARGRKMSKPRAVEAAAAAAAAVAATAPGPEMVERRGPRPRTDGENVFTGQSKIYSYMPNKC SGMRFP L
 QEENSVTHHEVKCQKPLAGIYRKREKRNAGNAVRSAMKSEEQKIKDARKGPLVPFPNQKSEAAEPPKT
 PPSSCDSTNAAIKQALKKPIKQKQAPRKAQKTKQNRKLTDFYPVRRSRKSKAELQSEERKRIDELI
 ESGKEEGMKIDLIDGKGRGVIATKQFSRGDFVVEYHGDLIEITDAKKREALYAQDPSTGCYMYFFQYLSK
 TYCVDATRETNRLGRLINHSKCGNCQTKLHDIDGVRHLILIASRDIAGEELLYDYGDRSKASIEAHPWL
 KH

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_020382

ORF Size: 1056 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_020382.3](#), [NP_065115.3](#)

RefSeq Size: 2765 bp

RefSeq ORF: 1059 bp

Locus ID: 387893

UniProt ID: [Q9NQ1](#)

Cytogenetics: 12q24.31

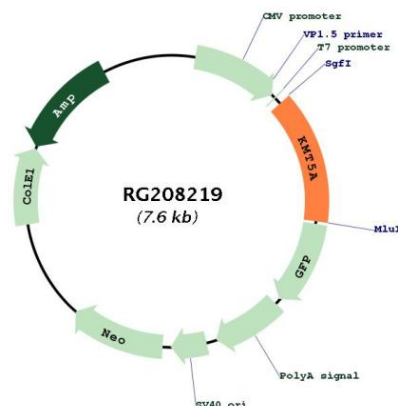
Domains: SET

Protein Families: Druggable Genome

Protein Pathways: Lysine degradation

Gene Summary: The protein encoded by this gene is a protein-lysine N-methyltransferase that can monomethylate Lys-20 of histone H4 to effect transcriptional repression of some genes. The encoded protein is required for cell proliferation and plays a role in chromatin condensation. [provided by RefSeq, May 2016]

Product images:



Circular map for RG208219