

Product datasheet for **MC219444**

AU022751 (NM_001166433) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AU022751 (NM_001166433) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	AU022751
Synonyms:	AU023811
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC219444 representing NM_001166433
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCAGCTCTTCGTCTCCAGAGAGGGGGCTGGAGGCGCTCAGAGACACTGACGAGTCCGAAGGTGAAG
 CTCCGGGGCCTTCGGGGCCAGAGGCCGAGGTGGTCCCTCGGGGGCAGGCAGCGCTGCGTCTCCGGAG
 CCTCGAAGCCGAAATGGCGGCCGCTGCGTCACCTCCACGGCCGGTGAGGACCTGGGGACATTTTCTGAG
 CCTGGGAGTCAACATGGCGACCTGAGGGTGGCGGTGGCCAGACCTAGAACTTGACATGCAAGGCCCA
 TGATGAGAAGCCAGAGAGAGCTCGGCCGACCCGAAAGCGCGGGAAAGCCGACCAAGCGGGAAAGG
 CAGGAAAGGGCGCAGCGGCTCCCGCCTCACACCAAGAGCAGTAGAAAGAGGGAGCAGCCCAACCCCAAC
 CGGAGCCTAATGGCCCAAGGTGCAGCCGGGCTCCGCTTCCCGGAGCTCGAGGGTCTCTGCTATGCCCC
 AGCCAGAGTCTTCTCTGAGCCCTAGGCCGACCAAGCCACCATTTTGTATTTCCAGTGGGGAACCTAGA
 AGCCCCGGGGCCTACCCTCAGGAGCTCCACCTCACAGGGCTCGGGGTCTACTCCAGTCCCGAGGGCCCTC
 CGCTGTGCCGAGTCCAGCCGTGCCGAGAGTGACCAAGTCCAGCCCTGCTGGCCGAGAAGTCCGTCACAGG
 CCAAGTCCACGGGCTCCCGATGATGATGATGACGGTGTGGTGGTCCGATCCCAGAGGCAGCGGGACCCC
 CGAAGGCTGGGTCTCCGTTCCGGAGTTGTACCTTTCGGTTCGATAGGAGCAGTGCATCGGAGGTGACCCC
 GAAGAGGTTCCGCCCCAAGCCAGTGCACAGGCTGGAATTTACGTCCTCGTCCCGGAGCAGTGCATCAG
 CGGTGACCCCTGAAGCTCGCCCCAAGCCAGAGCGCAGGCAGGAATTTACGTCCTCGTCCCGGAGCAG
 TGCATCAGTGGTCAAGCTCGCCCCAAGCCAGAGCGCAGGCAGGAATTTACGTCCTCGTCCCTCGGAGCAG
 CGGAGCAGTGCATCAGTGGTCAAGCTCGCCCCAAGCCAGAGCGCAGGCAGGAATTTACGTCCTCGTCCCT
 CTCGGGCCACTCCACGAGTTCTGTTGCTCCAGCAGTACCAGGTCAGTTCTGATAGAGGCAGCAG
 CGGTGCCCCACGGAGCCGAGCCGAAGCCGAGCTGCAGTACACCCAGGCTCGGCTCTGACCATCAACGG
 AGCCGTAATAAAGATGAGGCTGGATCTGCAAGTGGACCGTGAGCCGGAATCGGAGGCAGAGCAAGAAG
 AGCAAGAGCTGGAGTCAGAACCTGGCCCTAGCAGCCGGCCGAAGCGAGCCGTTCCCTCTAGGTTTGC
 AGTCCCAGGGAGATCCTCTCTAGCAGCCGAAGACTCTCTCCAAGGCGCCAGTTCGATGCGAGCCTCT
 TCCCTTCTCCTCCTGGTAGGCTCTATCCTTTGCCAAGCACTATTTGAAGGTGTCCATTCTCCCTCCT
 CATCTTCCAGTGTGCTCCAGTGTTCAGTTCCCATTTCCCTCAATAAGGCACCAGATCCAGGCTC
 CTCACCTCCATTAAGCTCTCTCTGGTCTAATCCCTTTGGCTTGCCTTGATAGCTGACCTGGATAAC
 CTTGATTCTTCTCTCCAGAGTGCCAGGGGAAGAAATAGAGGCAGCCCTCACACTCGTGAAGAGGAAG
 ATAGAAGTGTAGGGGATGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001166433
Insert Size: 1770 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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_001166433.1](#), [NP_001159905.1](#)

RefSeq Size: 2203 bp

RefSeq ORF: 1770 bp

Locus ID: 102991

UniProt ID: [Q3UWZ4](#)

Cytogenetics: X A1.1

Gene Summary: Inhibits PRC2/EED-EZH1 and PRC2/EED-EZH2 complex function by inhibiting EZH1/EZH2 methyltransferase activity, thereby causing down-regulation of histone H3 trimethylation at 'Lys-27' (H3K27me3) (PubMed:31086175). Probably inhibits methyltransferase activity by limiting the stimulatory effect of cofactors such as AEBP2 and JARID2 (By similarity). Inhibits H3K27me3 deposition during spermatogenesis and oogenesis (PubMed:31451685). [UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) represents the longer transcript and it encodes the longer protein (isoform 1). Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.