

## Product datasheet for **MC216353**

### **AU022751 (NM\_001033211) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	AU022751 (NM_001033211) 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:** >MC216353 representing NM\_001033211  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCCAGCTCTTCGTCTCCAGAGAGGGGGCTGGAGGCGCTCAGAGACACTGACGAGTCCGAAGGTGAAG  
 CTCGGGGCCTTCGGGGCCAGAGGCCGAGGTGGTCCCTCGGGGCAGGCAGCGCTGCGTCTCCGGAG  
 CCTCGAAGCCGAAATGGCGGCGGCTGCGTCACCTCCACGGCCGTGGGAACTAGAAGCCCCGGGGCT  
 ACCCTCAGGAGCTCCACCTCACAGGGCTCGGGTCTACTCCAGTCCCCGAGGCCCTCCGCTGTGCCGAGT  
 CCAGCCGTGCCGAGAGTGACCAGTCCAGCCCTGCTGGCCGAGAAGTGCCTCAACAGGCCAGTCCACGGGC  
 TCCCGATGATGATGACGGTATGGTGGTCTGATCCAGAGGCAGCGGGACCCCGAAGGCTGGGTC  
 CTCGTTCCGGAGTTGTACCTTCGGTCGTAGGAGCAGTGCATCGGAGGTGAGCCCCGAAGAGGTTCCGC  
 CCGAAGCCAGTGCACAGGCTGGAATTTACGTCTCGTCTCGGAGCAGTGCATCAGCGGTGAGCCCTGA  
 AGCTCGCCCCAAAGCCCAGAGCGCAGGCAGGAATTTACGTCTCGTCTCGGAGCAGTGCATCAGTGGTC  
 AGCCCTGAAGCTCGCCCCAAAGCCCAGAGCGCAGGCAGGAATTTACGTCTCGTCTCGGAGCAGTGCAT  
 CAGTGGTCAGCCCCGAAGCTCGCCCCGAAGCCCAGAGCGCAGGCAGGAATTTACGTCTCGGGCCACTCC  
 ACGAGTTCCTGTTGCTCCAGCAGTACCACGAGGTCCAGTTCTGATAGAGGCAGCAGCCGTGCCCCACGG  
 AGCCGGAGCCGAAGCCGAGTGCAGTACACCCAGGCTCGGCTCTGACCATCAACGGAGCCGTAATAA  
 AGATGAGGCTGGATCTGCAAGTGGACCGTGAGCCGGAATCGGAGGCAGAGCAAGAAGAGCAAGAGCTGGA  
 GTCAGAACCTGGCCCTAGCAGCCGGCCGAAGCGAGCCGTTCTCCTCTAGGTTGACAGTCCCAGGGAGA  
 TCCTCTTAGCAGCCGAAGACTCTCTCAAGGGCCCCAGTTCGTATGCGAGCCTTCCCTTCTCCTC  
 CTGGTAGGCTCTATCCTTTGCCAAGCACTATTTTGAAGGTGTCCATTCTCCCTCCTCATCTTCCAGTGA  
 GTCCTCCAGTGTTCAGTTCCATTCTCCCTCAATAAGGCACCAGATCCAGGCTCCTCACCTCCATTA  
 AGCTCTCTCTGGTCTAATCCCTTTGGCTTGCTTGTAGCTGACCTGGATAACCTTGATTCTCTCT  
 CTCCAGAGTGCCAGGGGAAGAAATAGAGGCAGCCCTCACACTCGTGAAGAGGAAGATAAGAAGTGTAG  
 GGGATGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM\_001033211
- Insert Size:** 1407 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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\\_001033211.3](#), [NP\\_001028383.2](#)

RefSeq Size: 1840 bp

RefSeq ORF: 1407 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 (2) lacks an internal segment in the coding region, compared to variant 1. The resulting protein (isoform 2) is shorter when it is compared to 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.