

## Product datasheet for **MC204051**

### **Mettl21a (NM\_025964) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Mettl21a (NM_025964) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mettl21a
Synonyms:	2310038H17Rik; AI464204; Fam119a
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >BC026952  
 GCAGAGATAGACAGAAGAAATGGCCCTGGTACCCTATGAGGAGAGCGCGCAATAGGGCTCCAGAAATTC  
 CATAAGCCTCTCGCCACCTTCTCTTTTGGCAACCACACCATCCAGATCCGTCCAGGACTGGAGGCAACTGG  
 GAGTTGCTGCAGTGGTGTGGGATGCGGCTGTCGTCCTTTCCATGTATCTGGAGATGGGTGCTGTGGAGCT  
 CAGGGGCTGCTCTGCTGTGGAGCTGGGTGCTGGCACAGGGCTGGTGGGCATAGTGCTGCCCTGCCGGGT  
 GCTCAGGTGACTATCACGGATCGGAAAGTAGCATTAGAGTTTCTTAAGTCAAACGTTGAAGCCAATTAC  
 CTCCTCATATCCAACCTAAGGCTGTTGTTAAGGAGCTGACTTGGGGACAAAATTTGGAAAGTTTTTCACC  
 TGGAGAATTTGATCTCATCTTGGAGCTGATGTCATATACTTAGAAGATACCTTACAGACCTTCTTCAA  
 ACACTGGGACATCTCTGTAGCAACAATTCTGTGATTCTTTTAGCTTGCCGAATCCGCTATGAACGGGATA  
 GTAACCTCTTAACAATGCTGGAGAGGCAATTCAGTGTGAGTAAGGTTCACTACGATCCTGAGAAGGACGT  
 ACACATTTACAAAGCACAGAAGAGAAACAGAGGGAGGACTTGTAGCGGGCAGTATTTTCTAAGAATTGA  
 ATGTACCAGGTAAGGTCTTACAGCTAGAACTCTTAGCCATGTTAATGACGTGGCTGACTGCAAGTCAGTC  
 CGTTAGAGCTGCTCAAGGAACAAAGCACATGTGTAAGTGTAGTTCGCTTGCCTCATAGCTGTAAC  
 TGTCAGCCAGATTGGCTCACTTCTGCAAGTGGACTTGTGAGGTCTGGCTGGTGTTCGTTCTTATCCTGT  
 GTGCTCACTGGGTAAGCAGTCCCCTGATGGAGACTGGTGGAGTCCAGTCCAGACATTTTGGGA  
 TGGATTTGTCTCAGTTTCTTGTCTGCTGAGTGTAAACAGATTTATTACATATATCCCTGAAATGTGT  
 GACTGTTGGAGTCTCTTGTGTTTGTGTTTGTGTCGGCCGTGGGCTGGTCTGAAACCCGAGGCCAG  
 GCTGACCTCAAGCTTGCAGTGTGCTTCCCTCTGCCGCAACTGCTGGGATTACAGGTGTGTGCCATG  
 CCACCTGGCTGACTGTTAGTCTTAAGCCCTTGAGATGAAGATGAGTTCTCTGGGTCTCATGTACATC  
 CTTTTTACCAGATTTTCAAGGCAAGTATAAAGCAATGAAATAAAAAATAAAATTTTACATTTGAAATTAC  
 CTAACCTGTAGGTTAGAAATTAAGTCTTAAACCATGCTTTTGTGTTTCAACTTTGCTGTTTCTCAGT  
 TTTGCTGATCTATTTCTTAGGGTTTTTTTTTTTTTCTTCTAGTATGTCAGTTTTTCAAGTTCATCT  
 CATTCTTACAAAGGTCAGCTCCCATGGTGCAGTCTGATTGTACCTATAATCACCCACTTGGTCTACA  
 GCTCCTGGTGGGCTGCAAGCTGCGGGGAGGCCTTGTAGCTTTGCTTACCAGGGTCCAGTAAAAACCAAG  
 TAGTCAAGGAGAATTTAGTATAGGTAATTGATGTTTCTGTTGTTAAGGATCAAAACAGGGTTTTAC  
 AGACCCTCGGCAACATTAGCCTTGTAGTTATTACGTCCCCAGCCAAAGGTTACTAGTTTTTTGTTTTCTC  
 TGGGTAGACTTTATGAATAATGTTATCAGTACAAGCTTCTTTTACATTAAGCTTACTAAAAGCTT  
 AAGCAGTTAGAGCATAGCTATTATAAAGTGCACAGTGGCAGTGGGTGATAGAAATTTGTTGAATAGACTA  
 TTCAAAGTAAGACCTTTTTTTAAAAATTATTAATATTTTGGATATAAAAAAAAAAAAAAAAAA

**Restriction Sites:** RsrII-NotI

**ACCN:** NM\_025964

**Insert Size:** 657 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: [BC026952](#), [AAH26952](#)

RefSeq Size: 1953 bp

RefSeq ORF: 657 bp

Locus ID: 67099

UniProt ID: [Q9CQL0](#)

Cytogenetics: 1 C2

**Gene Summary:** Protein-lysine methyltransferase that selectively trimethylates residues in heat shock protein 70 (HSP70) family members. Contributes to the in vivo trimethylation of Lys residues in HSPA1 and HSPA8. In vitro methylates 'Lys-561' in HSPA1, 'Lys-564' in HSPA2, 'Lys-585' in HSPA5, 'Lys-563' in HSPA6 and 'Lys-561' in HSPA8 (By similarity).[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) represents the longest transcript. All three variants encode the same protein. 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.