**OriGene Technologies, Inc.**
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

# Product datasheet for MC227369

## Cbfa2t2 (NM_001285446) Mouse Untagged Clone

### Product data:

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| **Product Type:** | Expression Plasmids |
| **Product Name:** | Cbfa2t2 (NM_001285446) Mouse Untagged Clone |
| **Tag:** | Tag Free |
| **Symbol:** | Cbfa2t2 |
| **Synonyms:** | A430091M07; C330013D05Rik; Cbfa2t2h; MTGR1 |
| **Vector:** | pCMV6-Entry (PS100001) |
| **E. coli Selection:** | Kanamycin (25 ug/mL) |
| **Cell Selection:** | Neomycin |
| **Fully Sequenced ORF:** | >MC227369 representing NM_001285446<br>Red=Cloning site Blue=ORF Orange=Stop codon<br><br>TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC<br>GCCGCGATCGCC<br><br>ATGGAGGTTCATGGAAATGGAAAGAGGCCCAGTCCGGAAAGGAGGGACGAGAATAATTTTGAAAGAGATA<br>CAGTTCCTCCTGAACCGCCTGCCAAGAGAGTGTGTACTATCAGCCCTGCTCCTCGGCACAGTCCCGCCCT<br>CACTGTTCCCCTTATGAATCCTGGGGGCCAGTTCCATCCTACTCCACCACCTCTTCAGCACTATACACTA<br>GAAGACATTGCAACTTCTCACCTGTATCGGGAACCAAACAAGATGCTAGAACACCGAGAAGTTCGTGAGA<br>GGCACCACAATCTTAGTCTCAATGGAGGCTATCAAGATGAGTTGGTAGACCACCGTTTGACAGAAAGGGA<br>GTGGGCTGATGAATGGAAACACCTTGACCATGCACTGAATTGCATTATGGAAATGGTAGAGAAAACTAGG<br>CGCTCCATGGCAGTTCTGAGGCGCTGTCAGGAATCTGACCGTGAAGAACTCAACTATTGGAAACGGCGGT<br>TTAATGAAAATACAGAGTTGAGGAAAACTGGGACTGAGTTGGTCTCTAGGCAGCACAGCCCTGGGAGTAC<br>AGATTCTCTCAGCAACGATTCTCAGCGGGAATTTACCAGTAGACCAGCAACAGGATATGTGCCTGTGGAG<br>TTTTGGAAGAAAACAGAAGAAGCCGTGAATAAGGTGAAAATTCAGGCCATGTCAGAGGTACAGAAGGCTG<br>TAGCTGAGGCAGAGCAAAAAGCCTTTGAAGTGATTGCAACGGAGAGAGCTCGAATGGAGCAGACCATAGC<br>GGATGTCAAACGGCAGGCTGCAGAAGATGCTTTCCTGGTCATCAATGAGCAAGAAGAGTCCACAGAGAAC<br>TGCTGGAACTGTGGCCGAAAAGCCAGTGAGACGTGCAGTGGCTGCAACATTGCTCGCTACTGCGGCTCCT<br>TCTGCCAGCATAAGGACTGGGAGCGGCACCACCGCCTCTGTGGCCAGAGTCTACATGGCCACAGTCCCCA<br>CAGCCAGAGCAGGCCACTGCTCCCTGGAGGGCGGGGCTCAGCCAGGTCTGCTGACTGCAGTGTGCCCAGC<br>CCAGCCCTGGACAAGACCTCAGCTACCACCTCACGGTCCTCAACACCTGCCTCTGTGACAGCCATTGATG<br>CCAACGGGCTCTAA<br><br>ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT<br>ACAAGGATGACGACGATAAGGTTTAA |
| **Restriction Sites:** | SgfI-MluI |

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| **ACCN:** | NM_001285446 |
| **Insert Size:** | 1134 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). |
| **OTI Annotation:** | Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag. |
| **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.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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_001285446.1, NP_001272375.1 |
| **RefSeq Size:** | 6076 bp |
| **RefSeq ORF:** | 1134 bp |
| **Locus ID:** | 12396 |
| **Cytogenetics:** | 2 H1 |
| **Gene Summary:** | Transcriptional corepressor which facilitates transcriptional repression via its association with DNA-binding transcription factors and recruitment of other corepressors and histone-modifying enzymes. Via association with PRDM14 is involved in regulation of embryonic stem cell (ESC) pluripotency. Involved in primordial germ cell (PCG) formation (PubMed:27281218). Stabilizes PRDM14 and OCT4 on chromatin in a homooligomerization-dependent mannerCan repress the expression of MMP7 in a ZBTB33-dependent manner (By similarity). Through heteromerization with CBFA2T3/MTG16 may be involved in regulation of the proliferation and the differentiation of erythroid progenitors by repressing the expression of TAL1 target genes (PubMed:19799863). Required for the maintenance of the secretory cell lineage in the small intestine (PubMed:16227606). Can inhibit Notch signaling probably by association with RBPJ and may be involved in GFI1-mediated Paneth cell differentiation (PubMed:25398765). [UniProtKB/Swiss-Prot Function]<br>Transcript Variant: This variant (3) uses an alternate splice site and uses a downstream start codon compared to variant 1. The resulting protein (isoform 3) has a shorter N-terminus 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. |