

## Product datasheet for **MC219603**

### Runx1t1 (NM\_001111027) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Runx1t1 (NM_001111027) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Runx1t1
Synonyms:	Cbfa2t1h; ETO; MTG8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC219603 representing NM\_001111027  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGATATCTGTCAAAGAACAACACTTGGAGAGCACTGAGTGTAGTATAGGTGACTGCCGGAAAAAGCGCA  
 ACTTTGAATATTGTCAAGATCGTACCGAGAAGCACTCCACAATGCCAGACTCACCTGTGGATGTGAAGAC  
 GCAGTCTAGGCTGACTCCCCAGCAATGCCACCTCCTCCAACCACTCAAGGAGCTCCAAGAACCAGCTCA  
 TTTACGCCAACGACATTAACGAATGGCACCAGCCATTACCCACGGCCTTGAATGGCGCTCCCTCACCGC  
 CTAATGGCTTTAGCAACGGGCTTCTTCTTCTTCTTCTTCTTCTTCTTCTGGCTAATCAGCAGCTGCCCCAGC  
 CTGTGGTGTAGGCAACTCAGCAAGCTGAAACGATTTCTTACTACCCTGCAGCAGTTTGGCAATGACATT  
 TCACCAGAGATTGGAGAAAGAGTTTCGCACCCTGTACTGGGACTGGTGAAGTCTACTTTGACAATTGAAG  
 AATTTTCATTCAAACGCAAGAAGCTACTAACTCCCCTGAGACCTTTTGTATCCCGTTTTTGAAGGC  
 CAACCTGCCCTGCTCCAGCGTGAAGTCTCCACTGCGCAAGGCTAGCCAAACAGAACCTGCCAGTAC  
 CTCGCTCAGCACGAACAGCTGCTTCTGGATGCCAGCACCACTCCCTGTGACTCCTCAGAGCTGCTTC  
 TCGACGTGAACGAAAACGGGAAGAGGCGAACTCCAGACAGAACCAAGAAAATGGCTTTGACAGAGAGCC  
 TTTGCACTCAGAACATCCAAGCAAGCGACCATGCACTATTAGCCCAGGCCAGCGGTACAGTCCAAATAAT  
 GGCTTATCCTACCAGCCAAATGGCTGCCTCACCCACCCACCTCCACCTCAGCATTACCGATTGGATG  
 ATATGGCCATTGCCACCACTACAGGGACTCCTATCGACACCCAGCCACAGGGACTCAGGGACAGAAA  
 TAGACCTATGGGGTTACATGGCACACGTCAAGAAGAAATGATTGACCACAGACTAACAGACAGAGAATGG  
 GCAGAAGAGTGGAAACATCTCGATCATCTGTTAACTGCATCATGGACATGGTGGAGAAGACAAGACGAT  
 CCCTCAGTGTACTAAGACGATGTCAGGAAGCGGACCGGGAAGAAGTGAATTACTGGATACGGCGGTACAG  
 TGATGCTGAGGACTTAAAAAAGGGTGGCAGCAGTAGCAGCAGCCACTCCAGGCAGCAGAGTCTGTCAAT  
 CCAGACCCAGTCGATTAGATGCACATCGGAATTCCTTACAGGCCCTGCGTCTGGATACGTGCCAGAGG  
 AGATCTGGAAGAAAGCTGAGGAAGCTGTGAATGAGGTGAAGCGACAGGCAATGACGGAGCTGCAAAAAGC  
 CGTGTCTGAGGCAGAGAGGAAAGCCATGACATGATCACCACGGAGCGAGCAAGATGGAACGCACGGTG  
 GCTGAAGCGAAGAGGCAGGCAGCAGAAGATGCTTAGCAGTCATCAACCAGCAGGAAGACTCCAGTGAGA  
 GTTGCTGGAAGTGTGGCCGAAAGCAAGTGAAGCTGCAGCGGCTGTAAACAGGCCCGATACTGTGGCTC  
 TTTTTGCCAGCATAAAGACTGGGAGAAGCATCACCATCTGTGGACAGACCTGCAGGCCCCACAGCAG  
 GGAGACACGCCCGCTGTAGCTCCTCAGTACACCCAGCAGTGGGGCTGGGAGCCAATGGACACACCAC  
 CAGCAGCCACTCCGAGGTCTACCACCCCGGAACCCCTCTACCATAGAGACGACGCCTCGT**AG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja1775\\_g10.zip](https://cdn.origene.com/chromatograms/ja1775_g10.zip)

**Restriction Sites:** Sgfl-Mlul

**ACCN:** NM\_001111027

**Insert Size:** 1815 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](mailto: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\\_001111027.1](#), [NP\\_001104497.1](#)

**RefSeq Size:** 7518 bp

**RefSeq ORF:** 1815 bp

**Locus ID:** 12395

**Cytogenetics:** 4 5.88 cM

**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. Can repress the expression of MMP7 in a ZBTB33-dependent manner. Can repress transactivation mediated by TCF12 (By similarity). Acts as a negative regulator of adipogenesis (PubMed:23527555).[UniProtKB/Swiss-Prot Function]  
 Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The extent of this transcript is supported by transcript alignments.