

## Product datasheet for **MR225848**

### Runx1t1 (NM\_009822) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Runx1t1 (NM_009822) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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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**ORF Nucleotide Sequence:**

>MR225848 representing NM\_009822  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGCCTGATCGTACCGAGAAGCACTCCACAATGCCAGACTCACCTGTGGATGTGAAGACGCAGTCTAGGC  
 TGACTCCCCAGCAATGCCACCTCTCCAACCACTCAAGGAGCTCCAAGAACCAGCTCATTACGCCAAC  
 GACATTAACGAATGGCACCAGCCATTACCCACGGCCTTGAATGGCGCTCCCTCACCGCCTAATGGCTTT  
 AGCAACGGGCTTCTTCTTCTTCTTCTTCTTCTGGTAATCAGCAGCTGCCCCAGCCTGTGGTGCTA  
 GGCAACTCAGCAAGCTGAAACGATTTTACTACCCTGCAGCAGTTTGGCAATGACATTTACCAGAGAT  
 TGGAGAAAGAGTTCGCACCCTTGTACTGGGACTGGTGAACCTACTTTGACAATTGAAGAATTTCAATCC  
 AAAGTGAAGAAGCTACTAATCTCCACTGAGACCTTTTGTATCCCGTTTTTGAAGGCCAACCTGCCCC  
 TGCTCCAGCGTGAACCTCCACTGCGCAAGGCTAGCCAAACAGAACCTGCCAGTACCTCGCTCAGCA  
 CGAACAGCTGCTTCTGGATGCCAGCACCTCCCTGTGACTCCTCAGAGCTGCTTCTCGACGTGAAC  
 GAAAACGGGAAGAGGCGAACTCCAGACAGAACCAAGAAAATGGCTTTGACAGAGAGCCTTTGACTCAG  
 AACATCCAAGCAAGCGACCATGCACTATTAGCCCAGGCCAGCGGTACAGTCCAAATAATGGCTTATCCTA  
 CCAGCCAAATGGCCTGCCTCACCCACCCACCTCCACCTCAGCATTACCGATTGGATGATATGGCCATT  
 GCCCACACTACAGGGACTCCTATCGACACCCAGCCACAGGGACCTCAGGGACAGAAAATAGACCTATGG  
 GGTTACATGGCACACGTCAAGAAGAAATGATTGACCACAGACTAACAGACAGAGAATGGGCAGAAGAGTG  
 GAAACATCTCGATCATCTGTTAAACTGCATCATGGACATGGTGGAGAAGACAAGACGATCCCTCACTGTA  
 CTAAGACGATGTCAGGAAGCGGACCGGGAAGAACTGAATTACTGGATACGGCGGTACAGTGTGCTGAGG  
 ACTTAAAAAAGGGTGGCAGCAGTAGCAGCAGCCACTCCAGGCAGCAGAGTCTGTCAATCCAGACCCAGT  
 CGCATTAGATGCACATCGGGAATTCCTTACAGGCCTGCGTCTGGATACGTGCCAGAGGAGATCTGGAAG  
 AAAGCTGAGGAAGCTGTGAATGAGGTGAAGCGACAGGCAATGACGGAGCTGCAAAAAGCCGTGTCTGAGG  
 CAGAGAGGAAAAGCCATGACATGATCACACGGAGCGAGCCAAGATGGAACGCACGGTGGCTGAAGCGAA  
 GAGGCAGGCAGCAGAAGATGCTCTAGCAGTCAACACAGCAGGAAGACTCCAGTGAAGTGTCTGGAAC  
 TGTGGCCGAAAGCAAGTGAACGTCAGCGGCTGTAAACAGGCCGATACTGTGGCTCTTTTTGCCAGC  
 AATAAGACTGGGAGAAGCATCACACATCTGTGGACAGACCTGCAGGCCCCACAGCAGGGAGACACGCC  
 CGCTGTCAGCTCCTCAGTACACCCAGCAGTGGGGCTGGGAGCCCAATGGACACACCACCAGCAGCCACT  
 CCGAGGTCTACCACCCGGGAACCCCTCTACCATAGAGACGACGCTCGC

**ACGCGT**ACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR225848 representing NM\_009822  
 Red=Cloning site Green=Tags(s)

MPDRTEKHSTMPDSPVDVKTQSRLTPPAMPPPPTTQGAPRTSSFPTTLTNGTSHSPTALNGAPSPPNGF  
 SNGPSSSSSSSLANQQLPPACGARQLSKLKRFLTLQQFGNDISPEIGERVRTLVLGLVNSTLTIEEFHS  
 KLQEATNFPLRPFVIFPLKANLPLLQRELLHCARLAKQNPAYLAQHEQLLLDASTTSPVDSSELLLDVN  
 ENGRRTPDRTKENGFDREPLHSEHPSKRPCTISPGQRYSPNGLSYQPNGLPHPTPPPPQHYRLDDMAI  
 AHHYRDSYRHPSHRDLRDRNRMGLHGTRQEEMIDHRLTDREWAEWVKHLDHLLNCLMDMVEKTRRSLTV  
 LRRQAEADREELNYWIRRYSDAEDLKKGGSSSSHSRQQSPVNPDPVALDAHREFLRHPASGYVPEEIKW  
 KAEAEAVNEVKRQAMTELQKAVSEAERKAHDMITTERAKMERTVAEAKRQAEDALAVINQQEDSSSESWN  
 CGRKASETCSGCNTARYCGSFCQHKDWEKHHHICGQTLQAPQQGDTPAVSSSVTPSSGAGSPMDTPPAAT  
 PRSTTPGTPSTIETTPR

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_009822

**ORF Size:** 1731 bp

**OTI Disclaimer:** 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](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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\\_009822.3](#), [NP\\_033952.1](#)

**RefSeq Size:** 5862 bp

**RefSeq ORF:** 1734 bp

**Locus ID:** 12395

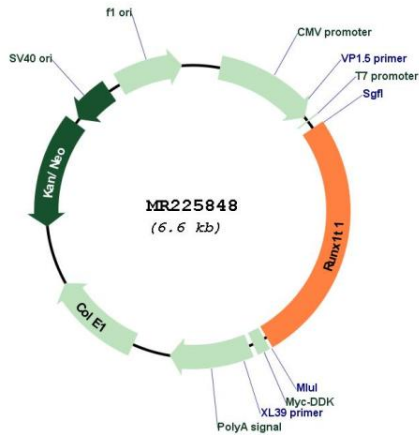
**UniProt ID:** [Q61909](#)

**Cytogenetics:** 4 5.88 cM

**MW:** 64.8 kDa

**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]

**Product images:**



Circular map for MR225848