

## Product datasheet for **MG225848**

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

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Runx1t1 (NM_009822) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Runx1t1
Synonyms:	Cbfa2t1h; ETO; MTG8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG225848 representing NM\_009822  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGCCTGATCGTACCGAGAAGCACTCCACAATGCCAGACTCACCTGTGGATGTGAAGACGCAGTCTAGGC  
 TGACTCCCCAGCAATGCCACCTCCTCCAACCACTCAAGGAGCTCCAAGAACCAGCTCATTACGCCAAC  
 GACATTAACGAATGGCACCAGCCATTACCCACGGCCTTGAATGGCGCTCCCTCACCGCCTAATGGCTTT  
 AGCAACGGGCTTCTTCTTCTTCTTCTTCTTCTGGCTAATCAGCAGCTGCCCCAGCCTGTGGTGCTA  
 GGCAACTCAGCAAGCTGAAACGATTTCTACTACCCTGCAGCAGTTTGGCAATGACATTTACCAGAGAT  
 TGGAGAAAAGATTGACCCCTTGTACTGGGACTGGTGAACCTACTTTGACAATTGAAGAATTTCAATTC  
 AAAGTGAAGAAGCTACTAACTCCCACTGAGACCTTTTGTATCCCGTTTTTGAAGGCCAACCTGCCCC  
 TGCTCCAGCGTGAACCTCCACTGCGCAAGGCTAGCCAAACAGAACCCCTGCCAGTACCTCGCTCAGCA  
 CGAACAGCTGCTTCTGGATGCCAGCACCTCCCTGTGACTCCTCAGAGCTGCTTCTCGACGTGAAC  
 GAAAACGGGAAGAGGCGAACTCCAGACAGAACCAAGAAAATGGCTTTGACAGAGAGCCTTTGCACTCAG  
 AACATCCAAGCAAGCGACCATGCACTATTAGCCAGGCCAGCGGTACAGTCCAAATAATGGCTTATCCTA  
 CCAGCCAAATGGCCTGCCTCACCCACCCACCTCCACCTCAGCATTACCGATTGGATGATATGGCCATT  
 GCCCACCCTACAGGGACTCCTATCGACACCCAGCCACAGGGACCTCAGGGACAGAAAATAGACCTATGG  
 GGTTACATGGCACACGTCAAGAAGAAATGATTGACCACAGACTAACAGACAGAGAATGGGCAGAAGAGTG  
 GAAACATCTCGATCATCTGTTAACTGCATCATGGACATGGTGGAGAAGACAAGACGATCCCTCACTGTA  
 CTAAGACGATGTCAGGAAGCGGACCGGGAAGAACTGAATTACTGGATACGGCGGTACAGTGTGAGG  
 ACTTAAAAAAGGGTGGCAGCAGTAGCAGCAGCCACTCCAGGCAGCAGAGTCTGTCAATCCAGACCCAGT  
 CGCATTAGATGCACATCGGGAATTCCTTACAGGCCTGCGTCTGGATACGTGCCAGAGGAGATCTGGAAG  
 AAAGCTGAGGAAGCTGTGAATGAGGTGAAGCGACAGGCAATGACGGAGCTGCAAAAAGCCGTGTCTGAGG  
 CAGAGAGGAAAGCCATGACATGATCACACGGAGCGAGCCAAGATGGAACGCACGGTGGCTGAAGCGAA  
 GAGGCAGGCAGCAGAAGATGCTCTAGCAGTCAACACAGCAGGAAGACTCCAGTGAAGTGTCTGGAAC  
 TGTGGCCGAAAGCAAGTGAAGCTGCAGCGGCTGTAAACAGGCCGATACTGTGGCTCTTTTTGCCAGC  
 AATAAGACTGGGAGAAGCATCACACATCTGTGGACAGACCTGCAGGCCCCACAGCAGGGAGACACGCC  
 CGCTGTCAGCTCCTCAGTACACCCAGCAGTGGGGCTGGGAGCCCAATGGACACACCACCAGCAGCCACT  
 CCGAGGTCTACCACCCCGGAACCCCTCTACCATAGAGACGACGCTCGC

**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA**

**Protein Sequence:**

>MG225848 representing NM\_009822  
 Red=Cloning site Green=Tags(s)

MPDRTEKHSTMPDSPVDVKTQSRLTPPAMPPPPTTQGAPRTSSFPTTTLNNGTSHSPTALNGAPSPPNGF  
 SNGPSSSSSSSLANQQLPPACGARQLSKLKRFLTTLQQFGNDISPEIGERVRLVGLVNSTLTIEEFHS  
 KLQEATNFPLRPFVIFPLKANLPLLQRELLHCARLAKQNPAYLAQHEQLLLDASTTSPVDSSELLLDVN  
 ENGRRTPDRTKENGFDREPLHSEHPSKRPCTISPGQRYSPNGLSYQPNGLPHPTPPPPQHYRLDDMAI  
 AHYRDSYRHPSHRDLRDRNRMGLHGTRQEEMIDHRLTDREWAEWKHLDHLLNCIMDMVEKTRRSLTV  
 LRRQEAADREELNYWIRRYSDAEDLKKGGSSSSSHRQQSPVNPDPVALDAHREFLHRPASGYVPEEIKW  
 KAEAEAVNEVKRQAMTELQKAVSEAERKAHDMITTERAKMERTVAEAKRQAAEDALAVINQQEDSSSESCWN  
 CGRKASETCSGCNTARYCGSFCQHKDWEKHHHICGQTLQAPQQGDTPAVSSSVTPSSGAGSPMDTPPAAT  
 PRSTTPGTPSTIETTPR

**TRTRPLE - GFP Tag - V**

**Restriction Sites:**

Sgfl-MluI

**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

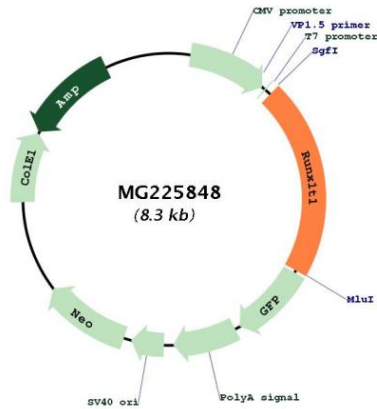
**UniProt ID:** [Q61909](#)

**Cytogenetics:** 4 5.88 cM

**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 MG225848