

Product datasheet for **MG226252**

Runx1 (NM_001111021) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Runx1 (NM_001111021) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Runx1
Synonyms:	AML1; CBF-alpha-2; Cbfa2; Pebp2a2; Pebpa2b
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG226252 representing NM_001111021
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCTTCAGACAGCATTTTTGAGTCATTTCTTCATATCCACAGTGCTTCATGAGAGATGCCAGCACGA
 GCCGCCGCTTACGCGCCTTCCACCGCTGAGCCCCGCAAGATGAGCGAGGCCGCTGCCGCTGGGCGC
 CCCGGATGGCGCGCCGCTTGGCCAGCAAGCTGAGGAGCGGCGACCGCAGCATGGTGGAGTACTAGT
 GACCACCTGGCGAGCTAGTGGCACCAGACGCCCAACTTCTCTGCTCCGTGCTACCCACTACTGGC
 GCTGCAACAAGACCTGCCATCGCTTTCAAGTGGTGGCACTGGGGACGTCCCGGATGGCACTCTGGT
 CACCGTCATGGCAGGCAACGATGAAACTACTCGGCAGAACTGAGAAATGCTACCGCGCCATGAAGAAC
 CAGGTAGCGAGATTCAACGACCTCAGGTTTGTGGGCGGAGCGGTAGAGGCAAGAGCTTCACTCTGACCA
 TCACCGCTTTACAAATCCGCCACAAGTTGCCACCTACCATAGAGCCATCAAAATCACAGTGGACGGCCC
 CCGAGAACCCGAAGACATCGGCAGAACTAGATGATCAGACCAAGCCCGGGAGTTTGTCTTTTCCGAG
 CGGCTCAGTGAATTGGAGCAGCTGCGGCGCACGGCCATGAGGGTACAGCCGCACCCAGCCCCACGC
 CCAACCTCGGGCCTCCTGAACCACTCCACTGCCTTAAACCCTCAGCCTCAAAGTCAGATGCAGGATGC
 CAGGCAGATCCAGCCATCCCCACCGTGGTCTATGACCAGTCTACCACTACCTGGGATCCATCACCTCT
 TCCTCTGTCCACCCAGCGACACCCATTTACCCGGCCGTGCCAGCGGCATGACCAGCCTCTCTGCAGAAC
 TTTCCAGTCGACTCTCAACGGCTCCGGACTGACCGCCTTCGGCGACCCACGCCAGTTCCCTACTCTGCC
 GTCCATCTCCGACCCGCGCATGCACTACCAAGCGCCTTCACTACTCGCCGCCGTCACGTCCGGCATC
 GGCATCGGCATGTCAGCCATGAGCTCGGCTCTCGTACCACACCTACCTGCCCGCCCTACCCCGGCT
 CATCACAGGCGCAGGCCGGCCCTCCAGACCGGCTCGCCCTCCTACCATCTATACTACGGCGCCTCGGC
 CGGTTCTACCAGTTCTCCATGGTGGGCGGAGAGATCGCCCCGCGCATCCTGCCCGCCCTGCACCAAC
 GCATCCACCGGCGCCGCGCTGCTCAACCCAGCCTCCCCAGCCAGAGCGACGTGGTGGAGACCGAGGGCA
 GCCATAGCAACTCGCCACCAACATGCCCCCGCGCGCCTGGAGGAGCCGTGTGGCGGCCCTAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG226252 representing NM_001111021
 Red=Cloning site Green=Tags(s)

MASDSIFESFPSYPQCFMRDASTSRRFTPPSTALSPGKMSEALPLGAPDGGAAALASKLRSGDRSMVEVLA
 DHPGELVRTDSPNFLCSVLPTHWRCNKTLPIAFKVVALGDVPDGLVTVMAGNDENYSaelRNATAAMKN
 QVARFNDRFVGRSGRGKSFTLTITVFTNPPQVATYHRAIKITVDGPREPRRHRQKLDQTKPGSLSFSE
 RLSELEQLRRTAMRVSPHHPAPTPNPRASLNHSTAFNPQPSQMQRARQIQSPSPWSYDQSYQYLGSI
 SSVHPATPISPGRASGMTSLSAELSSRLSTAPDLTAFGDPRQFPTLPSISDPRMHYPGAFYSPPVTS
 GIGMSAMSSASRYHTYLPPYPGSSQAQAGPFQTGSPSYHLYYGASAGSYQF SMVGGERSPPRILPPCTN
 ASTGAALLNPSLPSQSDVVETEGSHSNPTNMPPARLEEAVWRPY

TRTRPLE - GFP Tag - V

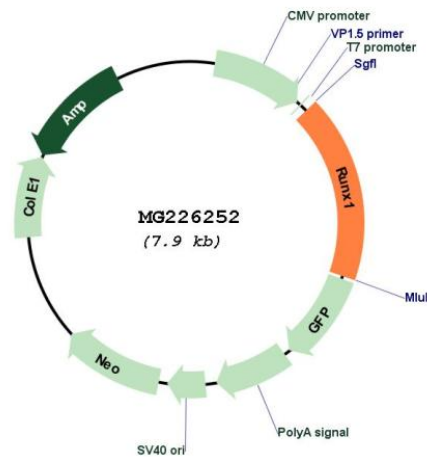
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001111021

ORF Size: 1395 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:	<ol style="list-style-type: none">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:	<u>NM_001111021.2, NP_001104491.1</u>
RefSeq Size:	5795 bp
RefSeq ORF:	1398 bp
Locus ID:	12394
Cytogenetics:	16 53.7 cM