

## Product datasheet for **MG226256**

### Runx1 (NM\_001111023) Mouse Tagged ORF Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids                         |
| Product Name:             | Runx1 (NM_001111023) 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:**

>MG226256 representing NM\_001111023  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCGTATCCCCGTAGATGCCAGCACGAGCCGCCCTTACGCCCGCTTCCACCGCGCTGAGCCCCGGCA  
 AGATGAGCGAGGGCGCTGCCGCTGGGCGCCCCGGATGGCGGCGCCGCCCTGGCCAGCAAGCTGAGGAGCGG  
 CGACCGCAGCATGGTGGAGGTAAGTACTGACCACCCTGGCGAGCTAGTGCACCGACAGCCCAACTTC  
 CTCTGCTCCGTGCTACCCACTCACTGGCGCTGCAACAAGACCCTGCCATCGCTTTCAAGGTGGTGGCAC  
 TGGGGGACGTCCCGGATGGCACTCTGGTACCCTCATGGCAGGCAACGATGAAAATACTCGGCAGAACT  
 GAGAAATGCTACCGCGGCCATGAAGAACCAGGTAGCGAGATTCAACGACCTCAGGTTTGTGGGCGGAGC  
 GGTAGAGGCAAGAGCTTCACTCTGACCATACCGTCTTTACAAAATCCGCCACAAGTTGCCACCTACCATA  
 GAGCCATCAAAATCACAGTGGACGGCCCCGAGAACCCGAAGACATCGGCAGAACTAGATGATCAGAC  
 CAAGCCCGGAGTTTGTCTTTCCGAGCGGCTCAGTGAATTGGAGCAGCTGCGGCGCACGGCCATGAGG  
 GTCAGCCCGCACCCAGCCGCCACGCCCAACCCCTCGGGCCTCCTTGAACCACTCCACTGCCTTTAACCC  
 CTCAGCCTCAAAGTCAGATGCAGGATGCCAGGCAGATCCAGCCATCCCCACCGTGGTCTATGACCAGTC  
 CTACCAGTACCTGGGATCCATCACCTCTTCTCTGTCCACCCAGCGACACCCATTTACCCGGCCGTGCC  
 AGCGGCATGACCAGCCTCTGTCAGAACTTTCCAGTGCAGTCTCAACGGTCCGGACCTGACCGCCTTCCG  
 GCGACCCACGCCAGTTCCTACTCTGCCGTCCATCTCCGACCCGCGCATGCACTACCCAGGCGCCTTCCAC  
 TACTCGCGCCCGTACGTCGGGCATCGGCATCGGCATGTCAGCCATGAGCTCGGCCTCTCGCTACCAC  
 ACCTACCTGCCCGCCCTACCCCGCTCATCACAGGCGCAGGCCGGGCCCTTCCAGACCGGCTCGCCCT  
 CCTACCATCTATACTACGGCGCCTCGGCCGTTTCTACCAGTTTCCATGGTGGGCGGAGAGAGATCGCC  
 CCGCGCATCTGCCGCCCTGCACCAACGCATCCACCGGCGCGCGCTGCTCAACCCAGCCTCCCCAGC  
 CAGAGCGACGTGGTGGAGACCGAGGGCAGCCATAGCAACTCGCCACCAACATGCCCCCGCGCGCTGG  
 AGGAGGCCGTGTGGCGGCCCTAC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>MG226256 representing NM\_001111023  
 Red=Cloning site Green=Tags(s)

MRIPVDASTSRRFTPPSTALSPGKMSEALPLGAPDGGAAALASKLRSGDRSMVEVLADHPGELVRTDSPNF  
 LCSVLPTHWRCKTLPIAFKVVVALGDVPDGLVTVMAGNDENYSaelRNATAAMKNQVARFNDLRFVGRS  
 GRGKSFTLTITVFTNPPQVATYHRAIKITVDGPREPRRHQKLDQTKPGSLSF SERLSELEQLRRTAMR  
 VSPHHPATPNPRASLNHSTAFNPQSQMQDARQIQSPSPWSYDQSYQYLG SITSSSVHPATPISPGRA  
 SGM TSLSAELSSRLSTAPDLTAFGDPRQFPTLPSISDPRMHYPGAFTYSPPVTSIGIGMSAMSSASRYH  
 TYLPPYPGSSQAQAGPFQTGSPSYHLYYGASAGSYQFSMVGGERSPPRILPPCTNASTGAALLNPSLPS  
 QSDVVETEGSHSNSPTNMPPARLEEAVWRPY

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

SgfI-MluI



|                               |  |
|-------------------------------|--|
| <b>OTI Disclaimer:</b>        | <p>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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p> |
| <b>OTI Annotation:</b>        | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.   |
| <b>Components:</b>            | 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).   |
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>  |
| <b>RefSeq:</b>                | <u>NM_001111023.2, NP_001104493.1</u>  |
| <b>RefSeq Size:</b>           | 7137 bp  |
| <b>RefSeq ORF:</b>            | 1356 bp  |
| <b>Locus ID:</b>              | 12394  |
| <b>Cytogenetics:</b>          | 16 53.7 cM   |