

## Product datasheet for **RG220911**

### **RUNX3 (NM\_004350) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** RUNX3 (NM\_004350) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** RUNX3  
**Synonyms:** AML2; CBFA3; PEBP2aC  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG220911 representing NM\_004350  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCGTATCCCCTAGACCCAAGCACCAGCCGCCGCTTACACCTCCCTCCCCGGCCTTCCCCTGCGGCG  
 GCGGCGCGGCAAGATGGGCGAGAACAGCGGCCGCTGAGCGCGCAGGCGGCCGTGGGGCCCGAGGGCG  
 CGCCCGCCGAGGTGCGCTCGATGGTGGACGTGCTGGCGGACCACGCAGGCGAGCTCGTGCGCACCGAC  
 AGCCCCAACTTCTGCTCCGTGCTGCCCTCGCACTGGCGCTGCAACAAGACGCTGCCCGTCGCCTTCA  
 AGGTGGTGGCATTGGGGACGTGCCGATGGTACGGTGGTACTGTGATGGCAGGCAATGACGAGAACTA  
 CTCCGCTGAGCTGCGCAATGCCTCGGCCGTCATGAAGAACCAGGTGGCCAGGTTCAACGACCTTCGCTTC  
 GTGGGCCGAGTGGGCGAGGGAAGATTTACCCTGACCATCACTGTGTTACCAACCCCAAGTGG  
 CGACCTACCACCGAGCCATCAAGGTGACCGTGGACGGACCCCGGGAGCCAGACGGCACCAGGCGAGAAGCT  
 GGAGGACCAGACCAAGCCGTTCCCTGACCGCTTGGGGACCTGGAACGGCTGCGCATGCGGGTGACACCG  
 AGCACACCCAGCCCCGAGGCTCACTCAGCACCACAAGCCACTTCAGCAGCCAGCCCCAGACCCCAATCC  
 AAGGCACCTCGAACTGAACCCATTCTCCGACCCCGCCAGTTGACCGCTCCTTCCCACGCTGCCAAC  
 CCTCACGGAGAGCCGCTTCCCAGACCCAGGATGCATTATCCCGGGGCCATGTGAGTGCCTTCCCCTAC  
 AGCGCCACGCCCTCGGGACGAGCATCAGCAGCCTCAGCGTGGCGGCGATGCCGGCCACCAGCCGCTTCC  
 ACCATACCTACCTCCCGCACCCCTACCCGGGGCCCCGAGAACCAGAGCGGGCCCTTCCAGGCCAACCC  
 GTCCCCCTACCACCTCTACTACGGGACATCCTCTGGCTCCTACCAGTTCTCCATGGTGGCCGCGCAGCAGC  
 AGTGGGGCGACCGCTCACCTACCCGATGCTGGCCTTGTGACCAGCAGCGCTGCCTCTGTGCGCCCGG  
 GCAACCTCATGAACCCAGCCTGGGCGGCCAGAGTGATGGCGTGGAGGCCGACGGCAGCCACAGCAACTC  
 ACCACGGCCCTGAGCACGCCAGGCCGATGGATGAGGCCGTGTGGCGGCCCTAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG220911 representing NM\_004350  
 Red=Cloning site Green=Tags(s)

```
MRIPVDPSTSRFFTPPSAFPCGGGGKMGENSGALSAQAAVGPGRARPEVRSMDVLDHAGELVRTD
SPNFLCSVLP SHWRCNKTL PVAFKVVALGDVPDGT VVTVMAGNDENYS AELRNASAVMKNQVARFNDLRF
VGRSGRGKSFTLTITVF TNPTQVATYHRAIKVTVDGPREPRRHQKLEDQTKFPDRFGDLERLRMRVTP
STPSPRGLSTTSHFSSQPQTP IQGTSELNPFSDPRQFDRSFPTLPTL TESRFPDPRMHYPGAMSAAFPY
SATPSGTSISSL SVAGMPATSRFHHTYLPPYPGAPQNSGPFQANPSYHLYYGTSSGSYQF SMVAGSS
SGGDRSPTRMLASCTSSAASVAAGNLMNPSLGGQSDGVEADGSHSNSPTALSTPGRMDEAVWRPY
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_004350

**ORF Size:** 1245 bp

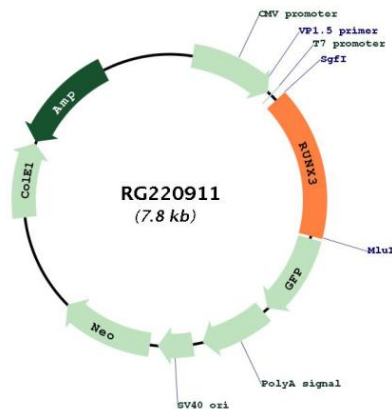
**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of 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](#)

**OTI Annotation:** 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_004350.3</u>
<b>RefSeq Size:</b>	3809 bp
<b>RefSeq ORF:</b>	1248 bp
<b>Locus ID:</b>	864
<b>UniProt ID:</b>	<u>Q13761</u>
<b>Cytogenetics:</b>	1p36.11
<b>Protein Families:</b>	Transcription Factors
<b>Gene Summary:</b>	This gene encodes a member of the runt domain-containing family of transcription factors. A heterodimer of this protein and a beta subunit forms a complex that binds to the core DNA sequence 5'-PYGPYGGT-3' found in a number of enhancers and promoters, and can either activate or suppress transcription. It also interacts with other transcription factors. It functions as a tumor suppressor, and the gene is frequently deleted or transcriptionally silenced in cancer. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2016]

### Product images:



Circular map for RG220911