

## Product datasheet for **RG203597**

### **RUNX3 (NM\_001031680) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	RUNX3 (NM_001031680) 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:	>RG203597 representing NM_001031680 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGC**C

ATGGCATCGAACAGCATCTTCGACTCCTCCCGACCTACTCGCCGACCTTCATCCGCGACCCAAGCACCA  
GCCGCGCTTACACCTCCCTCCCGGCTTCCCTGCGCGGGCGGGCGGCAAGATGGGCGAGAACAG  
CGGCGCGTGAAGCGCAGGCGGCGTGGGGCCGGAGGGCGCGCCCGGAGGTGCGCTCGATGGT  
GACGTGCTGGCGGACACGCAGGCGAGCTCGTGCACCCGACAGCCCAACTTCTCTGCTCCGTGCTGC  
CCTCGACTGGCGTGAACAAGACGCTGCCCGTGCCTTCAAGGTGGTGGCATTGGGGGACGTGCCGGA  
TGGTACGGTGGTACTGTGATGGCAGGCAATGACGAGAATACTCCGCTGAGCTGCGCAATGCCTCGGCC  
GTCATGAAGAACCAGGTGGCCAGGTTCAACGACCTTCGCTTCGTGGGCCGAGTGGGCGAGGGAAGATT  
TCACCCTGACCATCACTGTGTTCAACAACCCACCCAAGTGGCGACCTACCACCGAGCCATCAAGGTGAC  
CGTGGACGGACCCCGGGAGCCAGACGGCACCGGAGGAGCTGGAGGACCAAGCCGTTCCCTGAC  
CGCTTTGGGGACCTGGAACGGCTGCGCATGCGGGTACACCGAGCACACCCAGCCCCGAGGCTCACTCA  
GCACCACAAGCCACTTCAGCAGCCAGCCCCAGACCCCAATCCAAGGCACCTCGGAAGTGAACCCATTCTC  
CGACCCCGCCAGTTTGACCGCTCCTTCCCGACGCTGCCAACCTCACGGAGAGCCGCTTCCAGACCCC  
AGGATGCATTATCCCGGGCCATGTCAGCTGCCCTCCCTACAGCGCCACGCCCTCGGGCAGGACATCA  
GCAGCCTCAGCGTGGCGGCATGCCGGACCAGCCGCTTCCACCATACCTACCTCCCGCCACCCTACCC  
GGGGGCCCGCAGAACCAGAGCGGGCCCTTCCAGGCCAACCCGTCGCCCTACCACCTCTACTACGGGACA  
TCTCTGGCTCCTACCAGTTCTCCATGGTGGCCGGCAGCAGAGTGGGGGCGACCCTCACCTACCCGCA  
TGCTGGCCTTTGACACAGCAGCGCTGCCTCTGTGCGCGCCGGCAACCTCATGAACCCAGCCTGGGCGG  
CCAGAGTGATGGCGTGGAGGCCGACGGCAGCCACAGCAACTACCCACGGCCCTGAGCACGCCAGGCCG  
ATGGATGAGGCCGTGGCGGCCCTAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG203597 representing NM\_001031680  
 Red=Cloning site Green=Tags(s)

MASNSIFDSFPTYSPTFIRDPTSRRTFPPSPAFPCGGGGKMGENSGALSAQAAVGPGRARPEVRSMV  
 DVLADHAGELVRTDSPNFLCSVLP SHWRCNKTLPVAFKVVALGDVPDGT VVTVMAGNDENYSAELRNASA  
 VMKNQVARFNDLRFVGRSGRGKSF TLTITVFTNPTQVATYHRAIKVTVDGPREPRRHRQKLEDQTKFPDP  
 RFGDLERLRMRVTPSTPSPRGSLSTTSHFSSQPQTPIQGTSELNPFSDPRQFDRSFPTLPTLTESRFPDP  
 RMHYPGAMSAAFPYSATPSGTSISSLSVAGMPATSRFHHTYLPPPYPGAPQNSGPFQANPSPYHLYYGT  
 SSGSYQFSMVAGSSSGDRSPTRMLASCTSSAASVAAGNLMNPSLGGQSDGVEADGSHSNSPTALSTPGR  
 MDEAVWRPY

TRTRPLE – GFP Tag – V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001031680

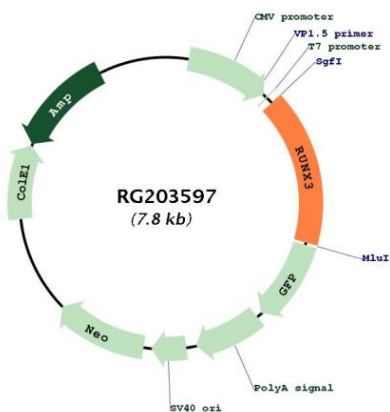
**ORF Size:** 1287 bp

**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](#)

<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><a href="#">NM_001031680.2</a></u> , <u><a href="#">NP_001026850.1</a></u>
<b>RefSeq Size:</b>	4340 bp
<b>RefSeq ORF:</b>	1290 bp
<b>Locus ID:</b>	864
<b>UniProt ID:</b>	<u><a href="#">Q13761</a></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 RG203597