

Product datasheet for **RG223809**

RUNX1 (NM_001754) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RUNX1 (NM_001754) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RUNX1
Synonyms:	AML1; AML1-EVI-1; AMLCR1; CBF2alpha; CBFA2; EVI-1; PEBP2aB; PEBP2alpha
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG223809 representing NM_001754
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCTTCAGACAGCATATTTGAGTCATTTCTTCGTACCCACAGTGCTTCATGAGAGAATGCATACTTG
 GAATGAATCCTTTAGAGACGTCCACGATGCCAGCAGAGCCGCCGCTTACGCCGCTTCCACCGCGCT
 GAGCCCAGGCAAGATGAGCGAGGCGTTGCCGCTGGGCGCCCCGGACGCCGCGCTGCCCTGGCCGCAAG
 CTGAGGAGCGGCGACCGCAGCATGGTGGAGGTGCTGGCCGACCACCCGGGCGAGCTGGTGCACCCGACA
 GCCCAACTTCTCTGCTCCGTGCTGCCTACGCACTGGCGCTGCAACAAGACCCTGCCATCGTTTTCAA
 GGTGGTGGCCCTAGGGATGTTCCAGATGGCACTCTGGTCACTGTGATGGCTGGCAATGATGAAACTAC
 TCGGCTGAGCTGAGAAATGCTACCGCAGCCATGAAGAACCAGGTTGCAAGATTTAATGACCTCAGGTTTG
 TCGGTGCAAGTGAAGAGGGAAAAGCTTACTCTGACCATCACTGTCTTCAAAACCCACCGCAAGTCGC
 CACCTACCACAGAGCCATCAAAATCACAGTGGATGGGCCCGAGAACCTCGAAGACATCGGCAGAAACTA
 GATGATCAGACCAAGCCCGGAGCTTGTCTTTCCGAGCGGCTCAGTGAAGTGGAGCAGCTGCGGCGCA
 CAGCCATGAGGGTCAGCCACACACCCAGCCCCACGCCAACCCCTCGTGCCTCCCTGAACCACTCCAC
 TGCCTTAAACCTCAGCCTCAGAGTCAGATGCAGGATACAAGGCAGATCCAACCATCCCCACCGTGGTCC
 TACGATCAGTCTACCAATACCTGGGATCCATTGCCTCTCCTTCTGTGCACCCAGCAACGCCATTTTAC
 CTGGACGTGCCAGCGCATGACAACCTCTCTGCAGAATTTCCAGTCGACTCTCAACGGCACCCGACCT
 GACAGCGTTACAGCACCCGCGCCAGTCCCCCGCTGCCCTCCATCTCCGACCCCGCATGCACTATCCA
 GCCGCCTTACCTACTCCCCGACCGCGTCACTCGGGCATCGGCATCGGCATGTGGCCATGGGCTCGG
 CCACGCGTACCACACCTACCTGCCGCCCTACCCCGCTCGTCGCAAGCGCAGGGAGGCCCGTTCCA
 AGCCAGCTCGCCCTCCTACCACCTGTACTACGGCGCTCGGCCGCTCCTACCAGTTCTCCATGGTGGGC
 GGCGAGCGCTCGCCGCCGCGCATCTGCCGCCCTGCACCAACGCCTCCACCGCTCCGCGCTGCTCAACC
 CCAGCCTCCCGAACAGAGCGACGTGGTGGAGGCCGAGGGCAGCCACAGCAACTCCCCACCAACATGGC
 GCCCTCCGCGCCTGGAGGAGGCCGTGTGGAGGCCCTAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG223809 representing NM_001754
 Red=Cloning site Green=Tags(s)

MASDSIFESFPSYPQCFMRECILGMNPSRDVHDASTSRRFTPPSTALSPGKMSEALPLGAPDAGAALAGK
 LRSGDRSMVEVLADHPGELVRTDSPNFLCSVLPTHWRCNKTLPIAFKVVALGDVPDGLVTVMAGNDENY
 SAELRNATAAMKNQVARFNDLRFVGRSGRGKSFLLTITVFTNPPQVATYHRAIKITVDGPREPRRHQKL
 DDQTKPGSLSFSERLSELEQLRRTAMRVSPHHPAPTPNPRASLNHSTAFNPQPQSQMQDTRQIQSPPPWS
 YDQSYQLGSIASPSVHPATPISPGRASGMTLSAELSSRLSTAPDLTAFSDPRQFPALPSISDPRMHYP
 GAFTYSPTPVTSIGIGMSAMGSATRYHTYLLPPYPGSSQAQGGPFQASSPSYHLYYGASAGSYQFSMVG
 GERSPPRILPPCTNASTGSALLNPSLPNQSDVVEAEGSHSNPTNMAPSARLEEAVWRPY

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001754

ORF Size: 1440 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 or by calling 301.340.3188 option 3 for pricing and delivery.

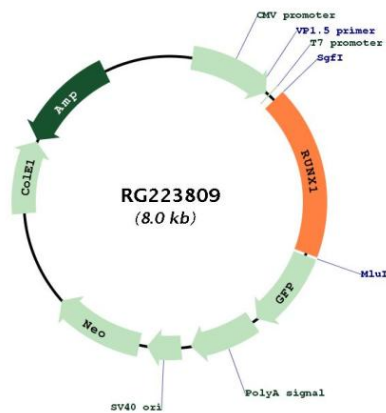
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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.

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_001754.5
RefSeq Size:	6190 bp
RefSeq ORF:	1443 bp
Locus ID:	861
UniProt ID:	Q01196
Cytogenetics:	21q22.12
Domains:	Runt
Protein Families:	Druggable Genome, ES Cell Differentiation/IPS, Transcription Factors
Protein Pathways:	Acute myeloid leukemia, Chronic myeloid leukemia, Pathways in cancer
Gene Summary:	Core binding factor (CBF) is a heterodimeric transcription factor that binds to the core element of many enhancers and promoters. The protein encoded by this gene represents the alpha subunit of CBF and is thought to be involved in the development of normal hematopoiesis. Chromosomal translocations involving this gene are well-documented and have been associated with several types of leukemia. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Product images:


Circular map for RG223809