

Product datasheet for **RR206224**

Runx1 (NM_017325) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Runx1 (NM_017325) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Runx1
Synonyms:	Aml1; B; CBF-alpha-2; Cbfa2; PEA2-alpha; PEBP2-alpha
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR206224 representing NM_017325
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCGTATCCCGTAGATGCCAGCAGAGCCGCCGCTTACGCCGCCTTCCACCGCGCTGAGCCCCGGCA
 AGATGAGCGAGGCGCTGCCGCTGGGCGCCCCGGATGGCGGCGCCGCCCTGGCCAGCAAGCTGAGGAGCGG
 CGACCGCAGCATGGTGGAGTACTAGCTGACCACCCCGCGAGCTAGTCCGCACCGACAGCCCCAACTTC
 CTCTGCTCCGTGCTGCCACTACTGGCGCTGCAACAAGACCCTGCCATCGCTTCAAGGTGGTAGCGC
 TGGGCGACGTTCCGGATGGCACTCTGGTACCCTCATGGCGGCAATGACGAAAATACTCGGCGGAGCT
 GAGAAACGCCACCGGGCCATGAAGAACCAAGTGGCGAGATTCAACGACCTCAGGTTTGTGCGTCCGAGC
 GGCAGAGGCAAGAGCTTCACTCTGACCATCACCGTCTTACAACCCCCACAAGTTGCCACCTACCATA
 GAGCCATCAAAATCACAGTGGACGGCCCCGAGAACCCCGAAGACATCGGCAGAACTAGATGATCAGAC
 CAAGCCCGGGAGTTTGTCTTTCCGAGCGGCTCAGTGAAGTGGAGCAGCTGCGGCGCACGGCCATGAGG
 GTCAGCCCGCATCACCCAGCCCCACGCCAACCTCGGGCCTCCTTGAACCACTCCACTGCCTTTAACCC
 CTCAGCCTCAAAGTCAGATGCAGGATGCCAGGCAGATCCAGCCGTCCCCACCGTGGTCTCTATGACCAGTC
 TTACCAGTACCTGGGGTCCATCACCTCTTGTGACCCCGGCGACCCATTTCTCCCGCCGAGCCAGT
 GGCATGACCAGCCTCTCAGCGGAATTTCCAGTCGACTCTCAACAGCCCCGGACCTGACAGCCTTCGGCG
 ACCCGCGCCAGTTCGCCACGCTGCCGTCCATCTCCGACCCGCGCATGCACTACCCAGGCGCCTTACCTA
 CTCGCCCTCTGTACATCGGGCATCGGCATTGGCATGTAGCCATGAGCTCGACTCTCGCTACCACACC
 TACCTGCCCGCCCTACCCAGGCTCCTCGCAGGCGCAGGCGGGCCCTCCAGACCGGCTCGCCTCCT
 ACCACTGTACTACGGCACCTCGGCAGGCTCCTACCAATTCTCCATGGTGGGCGGCGAGCGATCACCCCC
 GCGCATCTGCCGCCCTGCACCAACGCTCCACCGGAGCGCGCTGCTCAACCCAGCCTCCCCAGCCAG
 AGCGAGTGGTGAACCGAGGCGAGCCATAGCAACTCGCCACCAACATGCCACCCGCGCGCTGGAGG
 AGGCTGTCTGGCGGCCCTAC

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR206224 representing NM_017325
 Red=Cloning site Green=Tags(s)

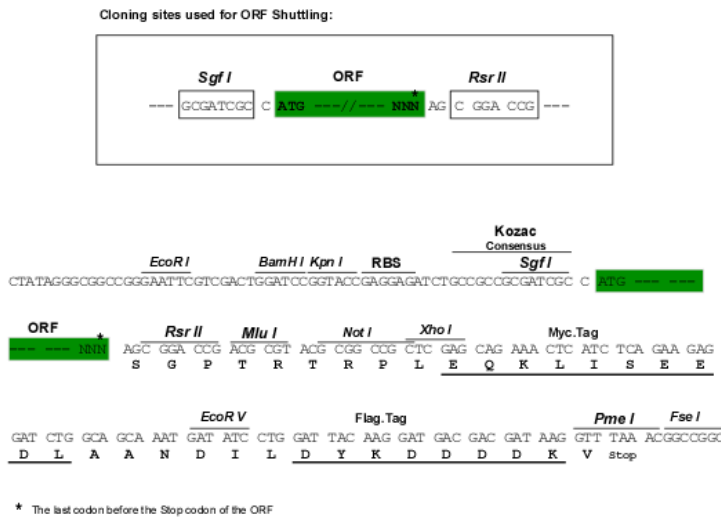
MRIPVDASTSRRFTPPSTALSPGKMSEALPLGAPDGGAAALASKLRSGDRSMVEVLADHPGELVRTDSPNF
 LCSVLPHTWRCNKTLPIAFKVVVALGDVPDGLVTVMAGNDENYSaelRNATAAMKNQVARFNDLRFVGRS
 GRGKSFTLTITVFTNPPQVATYHRAIKITVDGPREPRRHQKLLDDQTKPGSLSFSERLSELEQLRRTAMR
 VSPHHPAPTNPASLNHSTAFNPQSQMQDARQIQSPSPWSYDQSYQYLGSITSSVHPATPISPGRAS
 GMTLSAELSSRLSTAPDLTAFGDPQFPPTLPSISDPRMHYPGAFYSPVTSIGIGMSAMSSTSRHYT
 YLPPYPGSSQAQAGPFQTGSPSYHL YGTSAGSYQFSMVGGERSPPRILPPCTNASTGAALLNPSLPSQ
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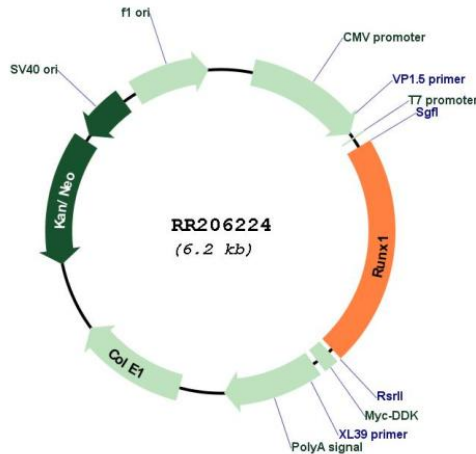
Restriction Sites:

SgfI-RsrII

Cloning Scheme:



Plasmid Map:



ACCN: NM_017325

ORF Size: 1350 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:

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_017325.2](#), [NP_059021.1](#)

RefSeq Size: 2135 bp

RefSeq ORF: 1353 bp

Locus ID: 50662

UniProt ID: [Q63046](#)

Cytogenetics: 11q11

MW: 48.6 kDa

Gene Summary: putative transcription factor that may be involved in skeletal muscle gene regulation; human homolog is associated with a form of acute myeloid leukemia [RGD, Feb 2006]