

Product datasheet for **RR216859**

Runx2 (NM_001278483) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Runx2 (NM_001278483) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Runx2
Synonyms:	Cbfa1; OSF-2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide
Sequence:

>RR216859 representing NM_001278483
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGTCAAACAGCCTCTTCAGTGCAGTGACACCGTGTGACAAAACCTCTTTTGGGATCCGAGCACCA
GCCGGCGCTTCAGCCCCCTCCAGCAGCTGCAGCCGCAAGATGAGCGACGTGAGCCCGGTAGTGGC
TGCTCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAACAGCAGCAACAGCAGCAGCAGCAG
CAGCAACAG
CGGCGGCAGCCGTGCCCGGTTGAGGCCGCCGACGACAAACCGCACCATGGTGGAGATCATCGGGACCA
CCCGGCCGAACCTGGTCCGACCCGACAGCCCAACTTCTGTGCTCCGTGCTGCCCTCGACTGGCGGTGC
AACAGACCTGCCCGTGGCCTCAAGGTTGTAGCCCTCGGAGAGGTACCCGATGGGACCGTGGTTACCG
TCATGGCCGGAATGATGAGAACTACTCTGCCGAGCTACGAAATGCCTCTGCTGTATGAAAAACCAAGT
GGCCAGGTTCAACGATCTGAGATTTGTAGGCCGGAGCGGACGAGGCAAGATTTCACTTTGACCATAACG
GTCTTCACAAATCCTCCCAAGTGGCCACTTACCACAGAGCTATTAAGTGACAGTGGACCGTCCCGGG
AACCAAGAAGGCACAGACAGAAGCTTGATGACTCTAAACCTAGTTTGTCTCTGACCCGCTCAGTGATT
AGGGCGCATTCCTCATCCAGTATGAGAGTAGGTGTCCCGCTCAGAACCACGGCCCTCCCTGAAGTCA
GCACCAAGTCTTTTAAATCCACAAGGACAGAGTCAGATTACAGATCCCAGGCAGACACAATCCTCCCCAC
CGTGGTCTATGACCAGTCTTACCCCTCTATCTGAGCCAGATGACGTCCCCATCCATCCATTCCACCAC
GCCGCTGTCTCCACACGGGGCACTGGGCTGCCAGCCATACCCGACGTACCCAGGCGTATTTAGATGAT
GACACTGCCACCTCTGACTTCTGCCTCTGGCCTTCTCTCAGTAAGAAGAGCCAGGACAGTGTCTCAG
AACTGGGCCCTTTTTCAGACCCAGGCACTTCCAGGCATTTCCCTCACTGAGAGCCGCTTCCAA
CCCACGAATGCACTATCCAGCCACTTCACTTACACCCGCCAGTCACGTACGGCATGTCCCTGGGCATG
TCCGCCACCACTCACTACCACAGTACCTGCCACCACCTACCCCGCTCTTCCAAAGCCAGAGCGGAC
CCTTCCAGACCAGCAGCACTCCATATCTACTATGGTACTTCGTGAGCGTCTATCAGTTCCCAATGGT
CCCCGGGGGAGACCGGTCTCCTTCCAGGATGGTCCCACCGTGCACGACCCTCGAATGGCAGCAGCATA
TTAAATCCAAATTTGCCTAACAGAATGATGGTGTGACGCTGATGGAAGCCACAGCAGCTCCCAACCG
TTTTGAATTCTAGCGGCAGAATGGATGAGTCTGTCTGGCGACCCTAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR216859 representing NM_001278483
Red=Cloning site Green=Tags(s)

MASNSLFSAVTPCQQNFFWDPSTSRRFSPSSSLQPGKMSDVSPVVAQQQQQQQQQQQQQQQQQQQQ
QQQQQQQQEAAAAAAAAAAAAAAAAAVPRLRPPHDNRTMVEIIADHPAELVRTDSPNFLCSVLP
SHWRCNKTLPVAFKVVVALGEVPDGTVVVMAGNDENYSaelRNASAVMKNQVARFNDRFVGRSGR
GKSFTLITVFTNPPQVATYHRAIKVTVDGPREPRRHQKLDLSDSKPSLFSDRLSDLGRIPH
PSMRVGVPPQNPRLNSAPSPFNQGSQITDPRQTQSSPPWSYDQSYPSYLSQMTSPSIHSTPL
SSTRGTGLPAITDVPRISSDDTATSDFCLWPSL SKKSQAGASELGPFS DPRQFPGISSLT
ESRF SNPRMHYPATFTYTPPVTSGMSLGM SATTHYHTYLPPPYPGSSQSQSGPFQTSST
PYLYYGTSSASYQFPMVPGGDRSPSRMVPPCTTTSNGSTL LNPNLPNQNDGVDADGSHSS
SPTVLNSSGRMDES VWRPY

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

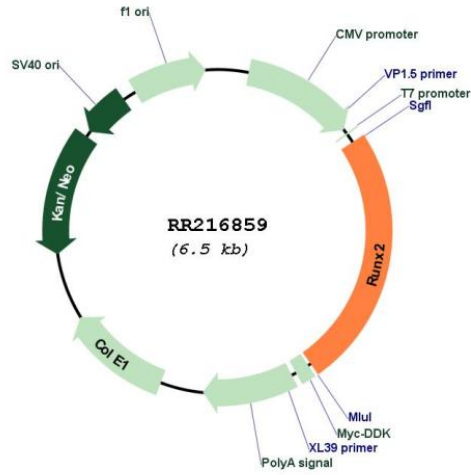
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN:	NM_001278483
ORF Size:	1587 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:	<ol style="list-style-type: none">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_001278483.1 , NP_001265412.1
RefSeq Size:	5641 bp
RefSeq ORF:	1590 bp
Locus ID:	367218
Cytogenetics:	9q13
MW:	57.6 kDa