

Product datasheet for **MG227541**

Runx2 (NM_001145920) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Runx2 (NM_001145920) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Runx2
Synonyms:	AM; AML3; Cbf; Cbfa; Cbfa-1; Cbfa1; LS3; Os; Osf2; PEB; Pebp2a1; PEBP2aA; Pebpa2a
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG227541 representing NM_001145920
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCGTATTCTGTAGATCCGAGCACCAGCCGGCGCTTCAGCCCCCTCCAGCAGCCTGCAGCCGGCA
 AGATGAGCGACGTGAGCCCGGTGGTGGCTGCGCAGCAGCAGCAACAGCAGCAGCAGCAGCAACAGCA
 GCAGCAACAACAGCAACAGCAACAACAGCAGCAGCAGCAGCAGCAGCAGGAGGCGCCGAGCAGCAGCG
 GCGGCAGCGCGCGGCAGCAGCGCGCGCGCCGAGTGCCTCGATTGAGGCGCGCCAGCACAACCGCA
 CCATGGTGGAGATCATCGCGACCACCCGGCCGAAGTGGTCCGCACCGACAGTCCCAACTTCTGTGCTC
 CGTGCTGCCCTCGCACTGGCGGTGCAACAAGACCCTGCCCGTGGCCTCAAGGTTGTAGCCCTCGGAGAG
 GTACCAGATGGGACTGTGGTTACCGTCATGGCCGGGAATGATGAGAACTACTCCGCCGAGCTCCGAAATG
 CCTCCGCTGTTATGAAAAACCAAGTAGCCAGGTTCAACGATCTGAGATTTGTGGGCCGAGCGGACGAGG
 CAAGAGTTTACCTTGACCATAACAGTCTTCAAAATCCTCCCAAGTGGCCACTTACCACAGAGCTATT
 AAAGTGACAGTGGACGGTCCCGGGAACCAAGAAGGCACAGACAGAAGCTTGATGACTCTAAACCTAGTT
 TGTTCCTGATCGCCTCAGTGATTTAGGGCGCATTCTCATCCCAGTATGAGAGTAGGTGTCCCGCCTCA
 GAACCCACGGCCCTCCCTGAAGTCTGCACCAAGTCTTTTAAATCCACAAGGACAGAGTACAGATTACAGAT
 CCCAGGCAGGCACAGTCTTCCCACCGTGGTCTATGACCAGTCTTACCCTCCTATCTGAGCCAGATGA
 CATCCCATCCATCCACTCCACCACGCCGCTGTCTTCCACACGGGGCACCAGGCTACCTGCCATCACTGA
 CGTGCCAGGCGTATTTAGATGATGACACTGCCACCTGACTTCTGCCTCTGGCCTTCTCTCTCAGT
 AAGAAGGCCAGGCAGGTGCTTCCAGAACTGGGCCCTTTTCCAGACCCAGGCAGTCCCAAGCATTTCAT
 CCCTCAGTGAGAGCCGCTTCTCCAACCCACGAATGCACTACCCAGCCACCTTACCTACACCCCGCCAGT
 CAGTCAAGGCATGTCCCTCGGCATGTCCGCCACCACTCACTACCACAGTACCTGCCACCCACTACCCC
 GGCTTCTCCAAAGCCAGAGTGGACCCTTCCAGACCAGCAGCACTCCATATCTCTACTATGGTACTTCGT
 CAGCATCTATCAGTTCCCAATGGTACCCGGGGGAGACCGGTCTCCTTCCAGGATGGTCCCACCATGCAC
 CACCACCTCGAATGGCAGCAGCTATTAATCCAAATTTGCCTAACCAAGATGATGGTGTGACGCTGAC
 GGAAGCCACAGCAGTCCCAACTGTTTGAATCTAGCGGCAGAATGGATGAGTCTGTTTGGCGGCCAT
 AT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG227541 representing NM_001145920
 Red=Cloning site Green=Tags(s)

MRIPVDPSTSRRFSPSSSLQPGKMSDVSFVVAQAQQQQQQQQQQQQQQQQQQQQQQQEEAAAAA
 AAAAAAAAAAAVPRLRPPHDNRTMVEIIADHPAELVRTDSPNFLCSVLP SHWRCNKTLPVAFKVALGE
 VPDGTVVTVMAGNDENYSAELRNASAVMKNQVARFNDLRFVGRSGRGKSFLLITVFTNPPQVATYHRAI
 KVTVDGPREPRHRQKLDLSDKPSLFSRLSDLGRIPHPSMRVGVPQNPRLNSAPSPFPQGSQITD
 PRQAQSSPPWSYDQSYPSYLSQMTSPSIHSTPLSSTRGTGLPAITDVPRIISDDDTATSDFLWSSLS
 KKSQAGASELGPFSDFRQFSPSSSLTESRFSPNRMHYPATFTYTPPVTSGLSLGMSATTHYHTYLP
 PYPGSSQSQSGPFQTSSTPYLYGTSSASYQFPMVPGDRSPSRMVPCTTTSSNGSTLLNPNLPQNDGVDAD
 GSHSSSPTVLNSSGRMDESVMRPY

TRTRPLE - GFP Tag - V

Restriction Sites:

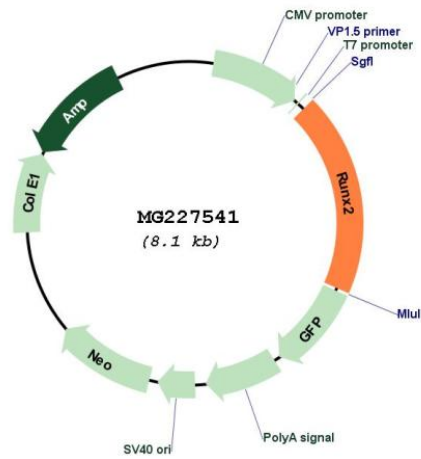
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN:	NM_001145920
ORF Size:	1542 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_001145920.2
RefSeq Size:	6463 bp
RefSeq ORF:	1545 bp
Locus ID:	12393
Cytogenetics:	17 21.33 cM
Gene Summary:	This gene encodes a member of the runt domain-containing family of transcription factors. This protein is essential for osteoblastic differentiation and skeletal morphogenesis and acts as a scaffold for nucleic acids and regulatory factors involved in skeletal gene expression. The protein can bind DNA both as a monomer or, with more affinity, as a subunit of a heterodimeric complex. Transcript variants that encode different protein isoforms result from the use of alternate promoters as well as alternate splicing. [provided by RefSeq, Sep 2015]