

Product datasheet for MC224168

Rreb1 (NM_001177868) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rreb1 (NM_001177868) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Rreb1
Synonyms:	1110037N09Rik; AA414966; B930013M22Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC224168 representing NM_001177868 Red=Cloning site Blue=ORF Orange=Stop codon

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGACGTCGAATTCGCCATTGGTTTAGAAGGCTCAGACCTGTCTCCATCAACACCATGATGTCAGCAG
TAATGAGCGTAGCGAGTGTACAGAGAATGGTGGGAGCCCCAGGGCATCAAGTCCCCCATGAAACCTCC
AGGACCAAATCGGATTGGCAGAAGGAACAGGAAACGAAAGAGGAGAAGTCTTCTACAACGTGCCCTA
TGTGAAAAGATTTGCACCACCCAGCACCAGCTGACCATGCACATCCGTCAGCACAAACACAGACACGGGAG
GAGCTGACCACGCATGCAGTATCTGTGGGAAGTCGCTGAGCTCGGCCAGCTCCCTGGATCGTCACATGCT
GGTGCACCTCTGGCGAGAGGCCTTACAAGTGTACAGTGTGTGGCCAGTCTTTCACCACCAATGGGAACATG
CACAGACATATGAAGATTCATGAGAAGGATACCAACAGTACTACAGCTGCAGCCCCCTCCATCCCCCTCTGA
AGCGCAGGCGGTTGTCTCCAAAAGGAAGCTGAGTCACGATGCCGAGTCAGAAGACCCAGGACCGCTAA
AAAGATGGTAGAAGACGGGCAGTCAGGCGATTTGGACAAGATGAGCGATGAAATCTTTCAGTCCCCAGTG
TGTTTCAAGGAGTTTGTGTTGCAAGTATGAACTGGAGACCCACATGGAGACCCACTCAGATAACCCACTAA
GATGTGACATTTGCTGCGTCACCTTCCGCACACATCGAGGACTGCTGCCCAATGCATTGTCCACAA
GCAGCTTCCCAGAGATGCCATGGGAAGACCTTTATCCAGAACAACCTTCGATTCTCTGCTGGCTTCCAT
GATTTAGGGTTTACTGACTTCTCTGTAGGAAGTTTCTCGAATCTCTCAGGCCCTGGTGTGAGACAAACC
TACGGCGGTGCATCAGCGAGCAGCACCGGTTTGTGTGTGACACCTGCGACAAGGCGTTCCCCATGCTGTC
GTCACTCATCCTGCACAGGCAGAGCCACATCCCTGCCGATCAGGGACGGGAGAAGCTCCAGACCAAGACC
CTGGCTGCCGAGTCCTTGGAACAGAAGGCCTTCTGCGCTTGTGGGCTGCAGCACACCAAGACGTCA
AGCCTGCCCCGGCGGAGGAGCTCCTGCCGACGACAACCAAGCAATACAGCTCCAGACACTTAAGTACCA
GCTACCTCAGGAGCCTGGCTGCCCCACCGTGTGAGTGTGTCTCCTCTTGACGCTGCTTCTTTAGGTGGC
TCTCTGACAGTCTCCAGCTACCAAGGAGAATATGAAGCATCTGTCCCTGCAGCCCTCCAGAAGGGCT
TCATCATCCAGCCAGACAGTAGCATTGTGGTTAAGCCTATTTAGGAGAGTCGGCCATTGAGCTGTCAGA
TATCCAACAGATTCTAAGATGTCAGCTCCGCTCCTCCGAGATCAGTCTTCCGCCACTTCCAAGGCC



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CCTGCCACCCGCTGCAGGCGATTTTCAAGCACATGCCTCCTTTGAAGCCAAAGCCCTTGGTCACACCCC
 GGACAGTGGTAGCCGCTCCACGCCCCACCTCTCATCAAGCCAGCAGGCATCTCCCGTTGTATCAG
 CCCAGCCTTCTCCACAGTCCCTGAAGTTCCTCAAGGGTGGTGGAGGCAGTGTCCAATGTTTCATCTG
 TTTCAGTCCAAGTCTGGGATCCAGCCAAGCACCACACAGCTCTTCTGCAGCAAGCTGGAGTGGAGT
 TGCCGGGCCAGCCGAGATGAAGACACAGCTGGAACAAGAGATCATTGAGGCCCTGCTGCCCTCAA
 CATGGAGGCGAAGATCAAGCAGGAGATAACAGAAGGTGACCTCAAGGCCATCATGACAGGCCCAAGTGGC
 AAGAAGACCCCGCCATGCGCAAGGTGCTTACCCCTGCCGCTTTTGAACCAGGTGTTTGCTTTCTCTG
 GAGTCTTGCAGAGCCACGTTTCGCTCCACCTGGGCATCTCACCCCTACCAATGCAACATCTGTGACTATAT
 TGCTGCAGACAAAGCCGCTGATCCGTACATCCGCACACACAGCGGGGAACGGCCTTACATCTGCAAG
 ATCTGCCACTACCATTCACGGTCAAAGCCAAGTGTGAGCGGCACCTGCGCAAGAAGCACCTCAAGGCCA
 CCAGGAAGGACATTGAGAAGAACATAGAGTACGTGAGCAGCCCCACCGCAGAGCTGGTGGACGCTTCTG
 CGCCCCAGAGACCGTGTGCAGACTGTGCGGGGAGGATCTGAAGCACTACCGAGCTCTACGCATCCACATG
 CGCACACACTGCAGCCGGGGCTGGGCGGTGCCACAAAGGCCGAAACCTTCGAGTGAAGGAATGCA
 ACGCTCCCTTCGTGGCCAAGCGCAACTGCATCCATCACATCCTCAAGCAGCACCTGCACGTGCCCGAGAA
 GGACATCGAGAGTACGTGCTTGCCACCAACAGTGGCCTCGGCCCGCGGACACGCCACGGATGCCGCT
 TCCAGAGGAGAAGAGGGCAGCTGTGTCACTTTCGCGGAGTGCAAGCCCTCGCCACTTTCCTGGAGCCCC
 AAAATGGCTTTCTCACTCGAGCCCCACCCAGCCCTGCCTTCCACATCTCTGTCAAGCTGGAGCCAGC
 CAGCAGCTTTGCCATGGACTTCAACGAACCCCTTGACTTTTCGAGAAAGGCCTGGCACTGGTCCAAGTG
 AAGCAGGAAAAATGTTCTCCTTCTGCTGACGTCTTCTCCTCTCTGCCCCTATGACTGCTCCATGGAGC
 CCATTGACCTGTCCATCCCAAGAGCGTCAAGAAAGGAGACAAGGACACAGTTGTTCCAGTGACGCCAA
 GAAACCGGAACCGGAAGTGGGCAAGCCGAGCCGCTCTCACCCCGCCACCACTGCCCCTACCTTGTC
 GTGACTGTGGAGCCCAAGGGGAGCCTGGAACCCCAAGGCACGGTGGTGGCCGTCAACACAGCTGCCA
 AGCTAGAGCCCCACACTCAGCCCTCCAGGGCTCCGTGCAGCTGGCTGTCCCCATCTACTCCCCCGCGT
 CGTCAGCAATACTCCCTCTTGGCAATTCTGCTGCCCTTTGAACAACCCAGCCTTGCTTCGGCCCTTA
 CGGCCAAAGCCCCCTCTCTTGCCAAAGCCCTCGATGACAGAGGAGCTGCCGCCACTGGCCTCCATCG
 CCCAGATCATTTCTTCCGTGTCCTCGGCCCTACTCTGCTGAAAACGAAGGTAGCTGACCTGGACCATC
 GATCACCAGCAGTAACACTGTGGCCACAGACAGCCAGGAAGCTCCATCCCCAAGCTGCCGCCACCCCC
 ACTGACACCACAAGCTCTAAAGAATCCAGTGAGCCACCCCTGCAGCCAGCAGCCTGAGGAAGCCTTGC
 TACTGAACAAGGGCCGGCTGCCACTTCTCGTCGAGGAAGAGGGGCAGGAAAGGGGACTGAGAAACCG
 GCCCTCCCCAACAGCAGTGCTGTGGACCTGGACTCCAGTGGGAGTTTGCTAGCATCGAGAAGATGCTG
 GCCACCACAGATACCAACAAGTTCAGTCCCTTTCTGCAGACTGCAGAGGATGACTCAGGAAGAGGTGG
 CTGGAGCCCTGCCGACCAGCATGGGCCGCTGATGAGGAGCAAGGTAGCCCCGAGAAGACAGGCTGCT
 GAGAGCAAAGCGGAACCTCTATGCCAACTGCCTGCAAAAGATCAACTGTCCCCACTGTCCCCGGGTCTTC
 CTTGGGCCAGCTCCCTGCAGCGGCACATGCTTACACACTGGTAAGAAGGCCCTCACGGCTCACCAGG
 CGGTGAGTCTTGAAGGAAAGAGTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	SgfI-MluI
ACCN:	NM_001177868
Insert Size:	3876 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001177868.1](#), [NP_001171339.1](#)

RefSeq Size: 7198 bp

RefSeq ORF: 3876 bp

Locus ID: 68750

UniProt ID: [Q3UH06](#)

Cytogenetics: 13 A3.3

Gene Summary: Transcription factor that binds specifically to the RAS-responsive elements (RRE) of gene promoters. May be involved in Ras/Raf-mediated cell differentiation by enhancing calcitonin expression. Represses the angiotensinogen gene. Negatively regulates the transcriptional activity of AR. Potentiates the transcriptional activity of NEUROD1 (By similarity). Binds specifically to the allelic variant of the CDKN2A promoter present in Balb/c mice, which leads to a down-regulation of CDKN2A expression in this strain, and, as a consequence, to an elevated susceptibility to pristane-induced tumors.[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (4) differs in the 5' UTR compared to variant 2. Variants 2-4 encode the functional protein.