

Complete nucleotide sequence of full length cDNA for rat  $\alpha$  cardiac myosin heavy chain

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Submitted August 2, 1989

EMBL accession no. X15938

A 5930 nucleotide sequence encoding the complete 1938 amino acids of the rat alpha cardiac myosin heavy chain plus the 5' and 3' untranslated regions was determined by dideoxy sequencing (1) of clones obtained from a rat cardiac cDNA library (2). The initiation codon at position 38, the termination codon at position 5852, and the poly A addition signal at position 5893 are underlined.

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10      20      30      40      50      60      70      80      90      100     110     120
TCTGTAAAGATTAAACGGACTTTAAGAGTGATAGGATATACGGATGCCAGATGGCTGACTTCGGGGGGGCAAGTACCTCCGCAAGTCAGAGAAGGAGCGCCTAGAGGCGCAGACCCG
130     140     150     160     170     180     190     200     210     220     230     240
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250     260     270     280     290     300     310     320     330     340     350     360
GACTGTGAAGGAGGACCAGGTGATCGGACAGAACCCCTCGAAATTCGACAGATCGAGGACATGGCCATGGCTGACCTTCCTGCATGAGCCAGCTGTCTCAATATCGAAGGAGCCGTA
370     380     390     400     410     420     430     440     450     460     470     480
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490     500     510     520     530     540     550     560     570     580     590     600
GGCTCCACCCACATCTTCTCCATCTCTGCACAACCGCTATCAGTACATGCTGCAGATCGGGAGAACAGTCCATCTCTCATCTGGAGAAATCCGGAGGGGGGAGACTGTCAACACGAA
610     620     630     640     650     660     670     680     690     700     710     720
CGGTGTATCCAGTACTTTGTAGCATGTCACCCATAGGGGACCTAGCAGAAAGGACAATCCTAATGCAAAACAGGGCACCTCGGGAGGACAGATATCCAGGGTAAACCCCTGCTCGGA
730     740     750     760     770     780     790     800     810     820     830     840
GGCCTTTGGCAAGCCGCAAGCTGTCCGGAATGACAACCTCTCCCGCTTTGGGAAGTTCATCAGGATCGAATTTGGAGCCACAGCAAGCTGGCTTCGACAGATAGAGCCTACCTTCT
850     860     870     880     890     900     910     920     930     940     950     960
GGAGAAGTCCCGGGTATCTTCCAGCTTAAAGGCTGAGAGGAATACCAATATCTTACCAGATCTCTGCCAACAAGCCGGAGCTGCTGGACATGCTGCTGGTACCACAACCCGTA
970     980     990     1000    1010    1020    1030    1040    1050    1060    1070    1080
CGACTATGCCTTCTCTCAGGAGAGGGTGTCTGTGGCTCCATTGATGACTCCGAGGAGCTTTTGGCACTGATAGCCCTTTGATGTGCTGGCTTACACAGCAGAGGAGAGGCGCG
1100    1110    1120    1130    1140    1150    1160    1170    1180    1190    1200
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1210    1220    1230    1240    1250    1260    1270    1280    1290    1300    1310    1320
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1330    1340    1350    1360    1370    1380    1390    1400    1410    1420    1430    1440
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1450    1460    1470    1480    1490    1500    1510    1520    1530    1540    1550    1560
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1570    1580    1590    1600    1610    1620    1630    1640    1650    1660    1670    1680
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1690    1700    1710    1720    1730    1740    1750    1760    1770    1780    1790    1800
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1930    1940    1950    1960    1970    1980    1990    2000    2010    2020    2030    2040
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2050    2060    2070    2080    2090    2100    2110    2120    2130    2140    2150    2160
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2290    2300    2310    2320    2330    2340    2350    2360    2370    2380    2390    2400
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