

Complete nucleotide sequence of full length cDNA for rat β cardiac myosin heavy chain

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A 5925 nucleotide sequence encoding the complete 1935 amino acids of the rat beta 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 and by PCR amplification of RNA (2). The initiation codon at position 11, the termination codon at position 5816, and the poly A addition signal at position 5900 are underlined.

10 20 30 40 50 60 70 80 90 100 110 120
CGCGTCAGTCATCCGGATCGAGAGATGGCTGCATTTCGGCCGGAGCCCTTCTCGGAAAATCTGAGAAAGGAGCGGCTGGAGCGCCAGACCAGGCCCTTTGACCTCAAGAAAGATGT
130 140 150 160 170 180 190 200 210 220 230 240
TTTTGTGCTGATGACAAAAGAGAGTTTGTCAAGGGCAAGATCGCTCTCGAGAGGGTGGCAAAGTCACCGCTGACAGACAGAAATGGCAAGACGGTGACTGTGAAGGAGCCAGCAGTGAT
250 260 270 280 290 300 310 320 330 340 350 360
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370 380 390 400 410 420 430 440 450 460 470 480
CTCAAGGCTTCTGTGTCAACCGTCAACCCCTATAAAGTGGCTGCCAGTGTACAATGGGCAAGTGGTACTGCTTACCGGGGCAAGAGAGGAGCGGAGCTCCACCCCACTTCTTCCAT
490 500 510 520 530 540 550 560 570 580 590 600
CTCTGAAACGGCTATCAGTACATGCTGACAGATCGGAGAACCGTCCATCTCATCACCGGAGAACTCGGAGCTGTGAGACCGTCAACACCAAGAGGGTTCATCCAATATTTTCTCT
610 620 630 640 650 660 670 680 690 700 710 720
TATTGCTGCCATTTGGGACCGCGCAAGAGGACGACAGCCCGAGCAAGGGCACCTTGGAAAGTCAATCATCCAAGCCACCCCGCTTGGAGGCTTTGGCAATGCCAAGACAGTTCG
730 740 750 760 770 780 790 800 810 820 830 840
GAATGATACTCTCCCGATTGGGAAATTCATTCGAATCCATTTTGGCCCAAGAGTGGCAATCTGAGACCTACCTTCTGGAAAAATCCAGAGTTATTTTCCAGCT
850 860 870 880 890 900 910 920 930 940 950 960
GAAAGCAAAAGAGATTATCACATTTTCTACCAAACTCTGTAATAAAAAGCCTGAGCTTCTAGACATCTGCTGATCACCAACAACCCCTACGATTATCGCTTCTTCCGAGGAGCA
970 980 990 1000 1010 1020 1030 1040 1050 1060 1070 1080
GAGGACTGTGGCCTCAATAGATGACTCTGAAGAGCACATGGCCACCGATAGCCCTTGTGATGTGCTGGCTTCACTCCGAAAGAGAACTCCATTATCAAGCTGACAGGGCCGATATC
1090 1100 1110 1120 1130 1140 1150 1160 1170 1180 1190 1200
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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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1810 1820 1830 1840 1850 1860 1870 1880 1890 1900 1910 1920
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2170 2180 2190 2200 2210 2220 2230 2240 2250 2260 2270 2280
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2290 2300 2310 2320 2330 2340 2350 2360 2370 2380 2390 2400
GTTGGCCACCAAGGTTCTTCAAGCCGGGCTGTCTGGGCTGTGGAGGAGATGCGAGATGAGAGGCTGAGCCGATCATCACCAGAAATCCAGGCCAGTCCGAGGTTGACTTTT
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3010 3020 3030 3040 3050 3060 3070 3080 3090 3100 3110 3120
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 5890 5900 5910 5920 5925
 GCACCTTAGCCAGAAACACATAAAGCAATTTCTTCAAGCCAA

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