

**Nucleotide sequence of a full-length cDNA clone encoding preproparathyroid hormone from pig and rat**

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DNA-sequence analysis of rat and porcine PTH-cDNA revealed a high base variability in the non-coding regions. The nucleotide sequence of the rat PTH-cDNA corresponds to the rat PTH-genomic sequence (1). Analysis of the predicted 115 AA sequences revealed highly conserved regions, also seen in human PTH (2) and bovine PTH (3). In the region +39 to +48 AA the rat PTH is considerably variable.

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CPTHRA: CTGCATATGAAACTCAGGCTTGAAGAAGTGCAGTCCAGTTCATCAGCTGTCTGGCTTACT 1: 60
CPTHPI: . . . . . AATTCATCAGCCTTCTCGGGTTTACTCAACTTTGAGAA 1: 38
CPTHRA: CCAGCTTAATACAGGGTCACTCCTGAAGGATCCTCTCTGAGAGTCTTGATGTGAAGAT 61:120
CPTHPI: AGCATCAGCTGCTAACACACCTGAAAGAAGATCGTGTCTTA. A.G. . . . . G. . . . . 39: 98
PTHRA: . . . . . M
PTHPI: . . . . . H
CPTHRA: GATGCTCGCAAGCACCATGGCTAAGGTGATGATCCTCATCTGGCAGTGTGCTCTCCTTAC 121:180
CPTHPI: . . . . . AAGA. CA. T. . . . . A. . . . . G. TG. . . . . T. . . . . A. . . . . T. T. . . . G. 99:158
PTHRA: M S A S T M A K V M I L M L A V C L L T
PTHPI: . . . . . K D T V . . . . . V V . . . . . I . . . . . F . . . . . A
CPTHRA: CCAGGCAGATGGGAAACCCGTTAAGAAGAGAGCTGTGAGTAAATACAGCTTATGCACAA 181:240
CPTHPI: AAGAT. . . . . G. TA. . . . . T. . . . . G. . . . . T. . . . . H. . . . . 159:218
PTHRA: Q A D G K K P V K K R A V S E I Q L M H N
PTHPI: R S . . . . . I . . . . . S . . . . .
CPTHRA: CCTGGGCAACACCTGGCCTCTGTGGAGGATGCAATGGCTGAGAAAAAGCTGCAAGA 241:300
CPTHPI: . . . . . AG. . . . . C. . . . . AG. G. . . . . C. . . . . G. . . . . G. . . . . 219:278
PTHRA: L G K H L A S V E R M Q W L R K K L Q D
PTHPI: . . . . . S . . . . . L . . . . . V E . . . . .
CPTHRA: TGTACACAATTTTGTGTTGCTTGGAGTCCAAATGGCTGCCAGAGAAGGCAGTTACCAGAG 301:360
CPTHPI: . . . . . C. . . . . GCC. C. . . . . CTTCT. A. T. CA. . . . . T. TG. . . . . C. . . . . 279:338
PTHRA: V H N F V S L G V Q M A A R E G S Y Q R
PTHPI: . . . . . A . . . . . A S I V H . . . . . D . . . . . G S . . . . .
CPTHRA: GCCCACCAGAAGGAGGAAAATGTCCTTGTGATGGCAATCAAAAAGTCTTGGCGAGGG 361:420
CPTHPI: A. . . . . CGA. A. . . . . A. C. . . . . G. . . . . GA. C. C. CA. . . . . C. G. A. A. C. 339:398
PTHRA: P T K K E E N V L V D G N S K S L G E G
PTHPI: . . . . . R . . . . . D . . . . . E S H Q . . . . . A
CPTHRA: GGACAAAGCTGATGTGGATGATTAGTTAAGGCTAAATCTCAGTAAATGCTGACGTATTC 421:480
CPTHPI: A. . . . . C. . . . . A. . . . . A. . . . . C. C. . . . TGAAAACACATATGATC 399:458
PTHRA: D K A D V D V L V K A K S Q
PTHPI: . . . . . P . . . . . T . . . . .
CPTHRA: TAGACCGTGCTGAGCAATAACATATCTGTCTATCCTTTCAAGCTCCACGAAGATCACCAA 481:540
CPTHPI: AGAGAGCACTGCTCTAGACAGCATAAGGCAACAATATTTTCATGCTGCTAATGTTTCAA 459:518
CPTHRA: GTGCCTAATCTCTACTGTAATAAAGTTTGAATTTGATTCCACTTTTGCTCATTTAAG 541:600
CPTHPI: TCTCTAATAAGATTAAAGTGCCAAATTTCTAATATTACTAAACTTGATGGGTAATCATTG 519:578
CPTHRA: GTCTCTCAATGATTTCCATTTCAATATATCTCTTTTTAAAGTATTACATTTCCAC 601:660
CPTHPI: CTAGCCATGATGCTGAAATTTAATTGATCATTGATTCTACTTTTACTCATTTTAAGA 579:638
CPTHRA: TCTCTCCTTAATATAAATAAAGTTTAAATGATCATGAACCAA 661:704
CPTHPI: GCTTCTTTTAAACAATCTATTCTATTGATTCTAAATAATGAAGTATTTCTTCTCTGTT 639:698
    
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**References**

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