

Human parathyroid hormone receptor 1 (PTHr1) in pcDNA3.1

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                                >KpnI
                                |
                                |
                    >AflIII    >Asp7181
                    |         |
                    |         |
>NheI    >PmeI    >HindIII    >BamHI
|         |         |         |
|         |         |         |
10        20        30        40        50
GCTAGCGTTTAAACTTAAGCTTGGTACCGAGCTCGGATCCACTAGTCCAG
CGATCGCAAATTTGAATTCGAACCATGGCTCGAGCCTAGGTGATCAGGTC

                >EcoRI
                |
                |
        >BstXI |
        |       |
        |       |
        |       |
60        70        80        90        100
TGTGGTGGGAATTCACCATGGGGACCGCCCGGATCGCACCCGGCCTGGCGC
ACACCACCTTAAGTGGTACCCCTGGCGGGCCTAGCGTGGGCCGGACCGCG
      M G T A R I A P G L A>
      ____HUMAN PARATHYROID HORMONE R____>

110        120        130        140        150
TCCTGCTCTGCTGCCCCGTGCTCAGCTCCGCGTACGCGCTGGTGGATGCA
AGGACGAGACGACGGGGCACGAGTCGAGGCGCATGCGCGACCACCTACGT
L L L C C P V L S S A Y A L V D A>
____HUMAN PARATHYROID HORMONE RECEPTOR 1 (PTHr1____>

160        170        180        190        200
GATGACGTCATGACTAAAGAGGAACAGATCTTCCTGCTGCACCGTGCTCA
CTACTGCAGTACTGATTTCTCCTTGTCTAGAAGGACGACGTGGCACGAGT
D D V M T K E E Q I F L L H R A Q>
____HUMAN PARATHYROID HORMONE RECEPTOR 1 (PTHr1____>

210        220        230        240        250
GGCCCAAGTGCAGAAAACGGCTCAAGGAGGTCCTGCAGAGGCCAGCCAGCA
CCGGGTACAGCTTTTTTGCCGAGTTCCTCCAGGACGTCTCCGGTCGGTCGT
A Q C E K R L K E V L Q R P A S>
____HUMAN PARATHYROID HORMONE RECEPTOR 1 (PTHr1____>

260        270        280        290        300
TAATGGAATCAGACAAGGGATGGACATCTGCGTCCACATCAGGGAAGCCC
ATTACCTTAGTCTGTTCCCTACCTGTAGACGCAGGTGTAGTCCCTTCGGG
I M E S D K G W T S A S T S G K P>
____HUMAN PARATHYROID HORMONE RECEPTOR 1 (PTHr1____>

310        320        330        340        350
AGGAAAGATAAGGCATCTGGGAAGCTCTACCCTGAGTCTGAGGAGGACAA
TCCTTTCTATTCCGTAGACCCTTCGAGATGGGACTCAGACTCCTCCTGTT
R K D K A S G K L Y P E S E E D K>
____HUMAN PARATHYROID HORMONE RECEPTOR 1 (PTHr1____>

360        370        380        390        400
GGAGGCACCCACTGGCAGCAGGTACCGAGGGCGCCCCTGTCTGCCGGAAT
CCTCCGTGGGTGACCGTCGTCCATGGCTCCCGCGGGGACAGACGGCCTTA
E A P T G S R Y R G R P C L P E>
____HUMAN PARATHYROID HORMONE RECEPTOR 1 (PTHr1____>

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410 420 430 440 450
 GGGACCACATCCTGTGCTGGCCGCTGGGGGCACCAGGTGAGGTGGTGGCT
 CCCTGGTGTAGGACACGACCGGCGACCCCGTGGTCCACTCCACCACCGA
 W D H I L C W P L G A P G E V V A>
 ____HUMAN PARATHYROID HORMONE RECEPTOR 1 (PTHR1____>

460 470 480 490 500
 GTGCCCTGTCCGGACTACATTTATGACTTCAATCACAAAGGCCATGCCTA
 CACGGGACAGGCCTGATGTAAATACTGAAGTTAGTGTTTCCGGTACGGAT
 V P C P D Y I Y D F N H K G H A Y>
 ____HUMAN PARATHYROID HORMONE RECEPTOR 1 (PTHR1____>

510 520 530 540 550
 CCGACGCTGTGACCGCAATGGCAGCTGGGAGCTGGTGCCTGGGCACAACA
 GGCTGCGACACTGGCGTTACCGTCGACCCTCGACCACGGACCCGTGTTGT
 R R C D R N G S W E L V P G H N>
 ____HUMAN PARATHYROID HORMONE RECEPTOR 1 (PTHR1____>

560 570 580 590 600
 GGACGTGGGCCAACTACAGCGAGTGTGTCAAATTTCTACCAATGAGACT
 CCTGCACCCGGTTGATGTCGCTCACACAGTTTAAAGAGTGGTTACTCTGA
 R T W A N Y S E C V K F L T N E T>
 ____HUMAN PARATHYROID HORMONE RECEPTOR 1 (PTHR1____>

610 620 630 640 650
 CGTGAACGGGAGGTGTTTGACCGCCTGGGCATGATTTACACCGTGGGCTA
 GCACTTGCCCTCCACAACTGGCGGACCCGTACTAAATGTGGCACCCGAT
 R E R E V F D R L G M I Y T V G Y>
 ____HUMAN PARATHYROID HORMONE RECEPTOR 1 (PTHR1____>

660 670 680 690 700
 CTCCGTGTCCCTGGCGTCCCTCACCGTAGCTGTGCTCATCCTGGCCTACT
 GAGGCACAGGGACCGCAGGGAGTGGCATCGACACGAGTAGGACCGGATGA
 S V S L A S L T V A V L I L A Y>
 ____HUMAN PARATHYROID HORMONE RECEPTOR 1 (PTHR1____>

710 720 730 740 750
 TTAGGCGGCTGCACTGCACGCGCAACTACATCCACATGCACCTGTTCTCTG
 AATCCGCCGACGTGACGTGCGCGTTGATGTAGGTGTACGTGGACAAGGAC
 F R R L H C T R N Y I H M H L F L>
 ____HUMAN PARATHYROID HORMONE RECEPTOR 1 (PTHR1____>

760 770 780 790 800
 TCCTTCATGCTGCGCGCCGTGAGCATCTTCGTCAAGGACGCTGTGCTCTA
 AGGAAGTACGACGCGCGGCACTCGTAGAAGCAGTTCTTGCACACGAGAT
 S F M L R A V S I F V K D A V L Y>
 ____HUMAN PARATHYROID HORMONE RECEPTOR 1 (PTHR1____>

810 820 830 840 850
 CTCTGGCGCCACGCTTGATGAGGCTGAGCGCCTCACCGAGGAGGAGCTGC
 GAGACCGCGGTGCGAACTACTCCGACTCGCGGAGTGGCTCCTCCTCGACG
 S G A T L D E A E R L T E E E L>
 ____HUMAN PARATHYROID HORMONE RECEPTOR 1 (PTHR1____>

860 870 880 890 900
 GCGCCATCGCCAGGCGCCCCCGCCGCTGCCACCGCCGCTGCCGGCTAC

CGCGGTAGCGGGTCCGCGGGGGCGGCGGACGGTGGCGGCGACGGCCGATG
 R A I A Q A P P P P A T A A A G Y>
 ____HUMAN PARATHYROID HORMONE RECEPTOR 1 (PTHR1____>

910 920 930 940 950
 GCGGGCTGCAGGGTGGCTGTGACCTTCTTCCTTTACTTCCTGGCCACCAA
 CGCCCCGACGTCCCACCGACACTGGAAGAAGGAAATGAAGGACCGGTGGTT
 A G C R V A V T F F L Y F L A T N>
 ____HUMAN PARATHYROID HORMONE RECEPTOR 1 (PTHR1____>

960 970 980 990 1000
 CTACTACTGGATTCTGGTGGAGGGGCTGTACCTGCACAGCCTCATCTTCA
 GATGATGACCTAAGACCACCTCCCCGACATGGACGTGTCGGAGTAGAAGT
 Y Y W I L V E G L Y L H S L I F>
 ____HUMAN PARATHYROID HORMONE RECEPTOR 1 (PTHR1____>

1010 1020 1030 1040 1050
 TGGCCTTCTTCTCAGAGAAGAAGTACCTGTGGGGCTTCACAGTCTTCGGC
 ACCGGAAGAAGAGTCTCTTCTTCATGGACACCCCGAAGTGTGAGAAGCCG
 M A F F S E K K Y L W G F T V F G>
 ____HUMAN PARATHYROID HORMONE RECEPTOR 1 (PTHR1____>

1060 1070 1080 1090 1100
 TGGGGTCTGCCCCGTGTCTTCGTGGCTGTGTGGGTGAGTGTGAGAGCTAC
 ACCCCAGACGGGCGACAGAAGCACCGACACACCCAGTCACAGTCTCGATG
 W G L P A V F V A V W V S V R A T>
 ____HUMAN PARATHYROID HORMONE RECEPTOR 1 (PTHR1____>

1110 1120 1130 1140 1150
 CCTGGCCAACACCGGGTGTCTGGGACTTGAGCTCCGGAACAAAAAGTGA
 GGACCGGTTGTGGCCACGACCCTGAACTCGAGGCCCTTGTTTTTCACCT
 L A N T G C W D L S S G N K K W>
 ____HUMAN PARATHYROID HORMONE RECEPTOR 1 (PTHR1____>

1160 1170 1180 1190 1200
 TCATCCAGGTGCCCATCCTGGCCTCCATTGTGCTCAACTTCATCCTCTTC
 AGTAGGTCCACGGGTAGGACCGGAGGTAACACGAGTTGAAGTAGGAGAAG
 I I Q V P I L A S I V L N F I L F>
 ____HUMAN PARATHYROID HORMONE RECEPTOR 1 (PTHR1____>

1210 1220 1230 1240 1250
 ATCAATATCGTCCGGGTGCTCGCCACCAAGCTGCGGGAGACCAACGCCGG
 TAGTTATAGCAGGCCCACGAGCGGTGGTTCGACGCCCTCTGGTTGCGGCC
 I N I V R V L A T K L R E T N A G>
 ____HUMAN PARATHYROID HORMONE RECEPTOR 1 (PTHR1____>

1260 1270 1280 1290 1300
 CCGGTGTGACACACGGCAGCAGTACCGGAAGCTGCTCAAATCCACGCTGG
 GGCCACACTGTGTGCCGTCGTCATGGCCTTCGACGAGTTTAGGTGCGACC
 R C D T R Q Q Y R K L L K S T L>
 ____HUMAN PARATHYROID HORMONE RECEPTOR 1 (PTHR1____>

1310 1320 1330 1340 1350
 TGCTCATGCCCTCTTTGGCGTCCACTACATTGTCTTCATGGCCACACCA
 ACGAGTACGGGGAGAAACCGCAGGTGATGTAACAGAAGTACCGGTGTGGT
 V L M P L F G V H Y I V F M A T P>
 ____HUMAN PARATHYROID HORMONE RECEPTOR 1 (PTHR1____>

1360 1370 1380 1390 1400
TACACCGAGGTCTCAGGGACGCTCTGGCAAGTCCAGATGCACTATGAGAT
ATGTGGCTCCAGAGTCCCTGCGAGACCGTTTCAGGTCTACGTGATACTCTA
Y T E V S G T L W Q V Q M H Y E M>
___HUMAN PARATHYROID HORMONE RECEPTOR 1 (PTHR1___>

1410 1420 1430 1440 1450
GCTCTTCAACTCCTTCCAGGGATTTTTGTGCGCAATCATATACTGTTTCT
CGAGAAGTTGAGGAAGTCCCTAAAAAACAGCGTTAGTATATGACAAAGA
L F N S F Q G F F V A I I Y C F>
___HUMAN PARATHYROID HORMONE RECEPTOR 1 (PTHR1___>

1460 1470 1480 1490 1500
GCAACGGCGAGGTACAAGCTGAGATCAAGAAATCTTGAGCCGCTGGACA
CGTTGCCGCTCCATGTTGCGACTCTAGTTCTTTAGAACCTCGGCGACCTGT
C N G E V Q A E I K K S W S R W T>
___HUMAN PARATHYROID HORMONE RECEPTOR 1 (PTHR1___>

1510 1520 1530 1540 1550
CTGGCACTGGACTTCAAGCGAAAGGCACGCAGCGGGAGCAGCAGCTATAG
GACCGTGACCTGAAGTTCGCTTTCCGTGCGTCGCCCTCGTCGTCGATATC
L A L D F K R K A R S G S S S Y S>
___HUMAN PARATHYROID HORMONE RECEPTOR 1 (PTHR1___>

1560 1570 1580 1590 1600
CTACGGCCCCATGGTGTCCACACAAGTGTGACCAATGTCGGCCCCCGTG
GATGCCGGGGTACCACAGGGTGTGTTCACTGTTACAGCCGGGGGCAC
Y G P M V S H T S V T N V G P R>
___HUMAN PARATHYROID HORMONE RECEPTOR 1 (PTHR1___>

1610 1620 1630 1640 1650
TGGGACTCGGCCTGCCCCCTCAGCCCCCGCCTACTGCCCCACTGCCACCACC
ACCCTGAGCCGGACGGGGAGTCGGGGGCGGATGACGGGTGACGGTGGTGG
V G L G L P L S P R L L P T A T T>
___HUMAN PARATHYROID HORMONE RECEPTOR 1 (PTHR1___>

1660 1670 1680 1690 1700
AACGGCCACCCTCAGCTGCCTGGCCATGCCAAGCCAGGGACCCAGCCCT
TTGCCGGTGGGAGTCGACGGACCGGTACGGTTTCGGTCCCTGGGGTCGGGA
N G H P Q L P G H A K P G T P A L>
___HUMAN PARATHYROID HORMONE RECEPTOR 1 (PTHR1___>

1710 1720 1730 1740 1750
GGAGACCCTCGAGACCACACCTGCCATGGCTGCTCCCAAGGACGATG
CCTCTGGGAGCTCTGGTGTGGTGGACGGTACCGACGAGGGTTCCTGCTAC
E T L E T T P P A M A A P K D D>
___HUMAN PARATHYROID HORMONE RECEPTOR 1 (PTHR1___>

1760 1770 1780 1790 1800
GGTTCCTCAACGGCTCCTGCTCAGGCCTGGACGAGGAGGCCTCTGGGCCT
CCAAGGAGTTGCCGAGGACGAGTCCGGACCTGCTCCTCCGAGACCCGGA
G F L N G S C S G L D E E A S G P>
___HUMAN PARATHYROID HORMONE RECEPTOR 1 (PTHR1___>

>XbaI
|

1810 1820 1830 1840 1850
GAGCGGCCACCTGCCCTGCTACAGGAAGAGTGGGAGACAGTCATGTGATC
CTCGCCGGTGGACGGGACGATGTCCTTCTCACCTCTGTCAGTACACTAG
E R P P A L L Q E E W E T V M *>
____HUMAN PARATHYROID HORMONE RECEPTOR 1 (PTH____>

>PmeI
|
>ApaI
|
1860
|
TAGAGGGCCCGTTTAAAC
ATCTCCCGGGCAAATTTG