

Human prostaglandin E receptor 3 subtype EP3 (Isoform VI)(PTGER3) in pcDNA 3.1

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

      >EcoRI
          |
      >BstXI
          |
          60      70      80      90      100
TG TGGT GGAATT CACC ATGA AGGAG ACCCG GGGCTAC GGAG GGGG ATGCC
AC ACCAC CTTAAG TG GTACT TCCT CTGG GCCCG CATGC CTCCC CTAC GGG
        M K E T R G Y G G D A>
    ____ HUMAN PROSTAGLANDIN E RECEPTOR 3 SUBTYPE EP ____>

          110      120      130      140      150
CCTTCTGCACCCGCCTCAACCACTCCTACACAGGCATGTGGGCGCCCCGAG
GGAAGACGTGGGCGGAGTTGGTGAGGATGTGTCCGTACACCCGCGGGCTC
P F C T R L N H S Y T G M W A P E>
    ____ HUMAN PROSTAGLANDIN E RECEPTOR 3 SUBTYPE EP ____>

          160      170      180      190      200
CGTTC CGCGGAGGCGCGGGGCAACCTCACGCGCCCTCCAGGGTCTGGCGA
GCAAGGCGGCTCCGCGCCCCGTTGGAGTGCGCGGGAGGTCCCAGACCGCT
R S A E A R G N L T R P P G S G E>
    ____ HUMAN PROSTAGLANDIN E RECEPTOR 3 SUBTYPE EP ____>

          210      220      230      240      250
GGATTGCGGATCGGTGTCCGTGGCCTTCCCGATCACCATGCTGCTCACTG
CCTAACGCCTAGCCACAGGCACCGGAAGGGCTAGTGGTACGACGAGTGAC
D C G S V S V A F P I T M L L T>
    ____ HUMAN PROSTAGLANDIN E RECEPTOR 3 SUBTYPE EP ____>

          260      270      280      290      300
GTTTCGTGGGCAACGCACTGGCCATGCTGCTCGTGTGCGCAGCTACCGG
CAAAGCACCCGTTGCGTGACCGGTACGACGAGCACAGCGCGTCGATGGCC
G F V G N A L A M L L V S R S Y R>
    ____ HUMAN PROSTAGLANDIN E RECEPTOR 3 SUBTYPE EP ____>

          310      320      330      340      350
CGCCGGGAGAGCAAGCGCAAGAAGTCCTTCCTGCTGTGCATCGGCTGGCT
GCGGCCCTCTCGTTGCGGTTCTTCAGGAAGGACGACACGTAGCCGACCGA
R R E S K R K K S F L L C I G W L>
    ____ HUMAN PROSTAGLANDIN E RECEPTOR 3 SUBTYPE EP ____>

          360      370      380      390      400
GGCGCTCACCGACCTGGTCGGGCAGCTTCTCACCACCCCGGTCGTCATCG
CCGCGAGTGGCTGGACCAGCCCGTCGAAGAGTGGTGGGGCCAGCAGTAGC
A L T D L V G Q L L T T P V V I>
    ____ HUMAN PROSTAGLANDIN E RECEPTOR 3 SUBTYPE EP ____>

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410 420 430 440 450  
TCGTGTACCTGTCCAAGCAGCGTTGGGAGCACATCGACCCGTCGGGGCGG  
AGCACATGGACAGGTTTCGTGCAACCCTCGTGTAGCTGGGCAGCCCCGCC  
V V Y L S K Q R W E H I D P S G R>  
\_\_\_HUMAN PROSTAGLANDIN E RECEPTOR 3 SUBTYPE EP\_\_\_>

460 470 480 490 500  
CTCTGCACCTTTTTTCGGGCTGACCATGACTGTTTTTCGGGCTCTCCTCGTT  
GAGACGTGGAAAAAGCCCGACTGGTACTGACAAAAGCCCGAGAGGAGCAA  
L C T F F G L T M T V F G L S S L>  
\_\_\_HUMAN PROSTAGLANDIN E RECEPTOR 3 SUBTYPE EP\_\_\_>

510 520 530 540 550  
GTTTCATCGCCAGCGCCATGGCCGTCGAGCGGGCGCTGGCCATCAGGGCGC  
CAAGTAGCGGTGCGGTACCGGCAGCTCGCCCGCGACCGGTAGTCCCGCG  
F I A S A M A V E R A L A I R A>  
\_\_\_HUMAN PROSTAGLANDIN E RECEPTOR 3 SUBTYPE EP\_\_\_>

560 570 580 590 600  
CGCACTGGTATGCGAGCCACATGAAGACGCGTGCCACCCGCGCTGTGCTG  
GCGTGACCATACGCTCGGTGTACTTCTGCGCACGGTGGGCGCGACACGAC  
P H W Y A S H M K T R A T R A V L>  
\_\_\_HUMAN PROSTAGLANDIN E RECEPTOR 3 SUBTYPE EP\_\_\_>

610 620 630 640 650  
CTCGGCGTGTGGCTGGCCGTGCTCGCCTTCGCCCTGCTGCCGGTGCTGGG  
GAGCCGCACACCGACCGGCACGAGCGGAAGCGGGACGACGGCCACGACCC  
L G V W L A V L A F A L L P V L G>  
\_\_\_HUMAN PROSTAGLANDIN E RECEPTOR 3 SUBTYPE EP\_\_\_>

660 670 680 690 700  
CGTGGGCCAGTACACCGTCCAGTGGCCCGGGACGTGGTGCTTCATCAGCA  
GCACCCGGTCATGTGGCAGGTACCGGGCCCTGCACCACGAAGTAGTCGT  
V G Q Y T V Q W P G T W C F I S>  
\_\_\_HUMAN PROSTAGLANDIN E RECEPTOR 3 SUBTYPE EP\_\_\_>

710 720 730 740 750  
CCGGGCGAGGGGGCAACGGGACTAGCTCTTCGCATAACTGGGGCAACCTT  
GGCCCCGTCCCCCGTTGCCCTGATCGAGAAGCGTATTGACCCCGTTGGAA  
T G R G G N G T S S S H N W G N L>  
\_\_\_HUMAN PROSTAGLANDIN E RECEPTOR 3 SUBTYPE EP\_\_\_>

760 770 780 790 800  
TTCTTCGCCTCTGCCTTTGCCTTCCTGGGGCTCTTGGCGCTGACAGTCAC  
AAGAAGCGGAGACGGAACGGAAGGACCCCGAGAACCGCGACTGTCAGTG  
F F A S A F A F L G L L A L T V T>  
\_\_\_HUMAN PROSTAGLANDIN E RECEPTOR 3 SUBTYPE EP\_\_\_>

810 820 830 840 850  
CTTTTCCTGCAACCTGGCCACCATTAAGGCCCTGGTGTCCCGCTGCCGGG  
GAAAAGGACGTTGGACCGGTGGTAATTCCGGGACCACAGGGCGACGGCCC  
F S C N L A T I K A L V S R C R>  
\_\_\_HUMAN PROSTAGLANDIN E RECEPTOR 3 SUBTYPE EP\_\_\_>

860 870 880 890 900  
CCAAGGCCACGGCATCTCAGTCCAGTGCCAGTGGGGCCGCATCACGACC

GGTTCCGGTGCCGTAGAGTCAGGTCACGGGTCACCCCGGCGTAGTGCTGG  
A K A T A S Q S S A Q W G R I T T>  
\_\_\_HUMAN PROSTAGLANDIN E RECEPTOR 3 SUBTYPE EP\_\_\_>

910 920 930 940 950  
GAGACGGCCATTGAGCTTATGGGGATCATGTGCGTGCTGTCGGTCTGCTG  
CTCTGCCGGTAAGTCGAATACCCCTAGTACACGCACGACAGCCAGACGAC  
E T A I Q L M G I M C V L S V C W>  
\_\_\_HUMAN PROSTAGLANDIN E RECEPTOR 3 SUBTYPE EP\_\_\_>

960 970 980 990 1000  
GTCTCCGCTCCTGATAATGATGTTGAAAATGATCTTCAATCAGACATCAG  
CAGAGGCGAGGACTATTACTACAACCTTTTACTAGAAGTTAGTCTGTAGTC  
S P L L I M M L K M I F N Q T S>  
\_\_\_HUMAN PROSTAGLANDIN E RECEPTOR 3 SUBTYPE EP\_\_\_>

1010 1020 1030 1040 1050  
TTGAGCACTGCAAGACACACACGGAGAAGCAGAAAGAATGCAACTTCTTC  
AACTCGTGACGTTCTGTGTGTGCCTCTTCGTCTTTCTTACGTTGAAGAAG  
V E H C K T H T E K Q K E C N F F>  
\_\_\_HUMAN PROSTAGLANDIN E RECEPTOR 3 SUBTYPE EP\_\_\_>

1060 1070 1080 1090 1100  
TTAATAGCTGTTTCGCCTGGCTTCACTGAACCAGATCTTGGATCCTTGGGT  
AATTATCGACAAGCGGACCGAAGTGACTTGGTCTAGAACCTAGGAACCCA  
L I A V R L A S L N Q I L D P W V>  
\_\_\_HUMAN PROSTAGLANDIN E RECEPTOR 3 SUBTYPE EP\_\_\_>

1110 1120 1130 1140 1150  
TTACCTGCTGTTAAGAAAGATCCTTCTTCGAAAGTTTTGCCAGGAGATGG  
AATGGACGACAATTCTTTCTAGGAAGAAGCTTTCAAAACGGTCCTCTACC  
Y L L L R K I L L R K F C Q E M>  
\_\_\_HUMAN PROSTAGLANDIN E RECEPTOR 3 SUBTYPE EP\_\_\_>

1160 1170 1180 1190 1200  
GGCCTGATGGAAGGTGTTTTTGTGCATGCATGGAGGCAGGTCCCCAGGACT  
CCGGACTACCTTCCACAAAAACAGTACGTACCTCCGTCCAGGGGTCCTGA  
G P D G R C F C H A W R Q V P R T>  
\_\_\_HUMAN PROSTAGLANDIN E RECEPTOR 3 SUBTYPE EP\_\_\_>

>XhoI  
|  
1210 1220 1230 1240 1250  
TGGTGCAGTTCTCATGATAGAGAACCCTGCAGTGTCCAGCTAAGCTGACT  
ACCACGTCAAGAGTACTATCTCTTGGGACGTACAGGTGCGATTGCGACTGA  
W C S S H D R E P C S V Q L S \*>  
\_\_\_HUMAN PROSTAGLANDIN E RECEPTOR 3 SUBTYPE \_\_\_>

>PmeI  
|  
>XbaI >ApaI  
| |  
| 1260 | 1270  
CGAGTCTAGAGGGCCCGTTTAAAC  
GCTCAGATCTCCCGGCAAATTTG