

Human orphan g protein coupled receptor 56 (GPR56), wild type, cloned into pcDNA3.1+

Sequence Range: 1 to 2134

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                                >HindIII
                                |
          10      20      30      40      50
CTAGCATGCTGCGTTTAACTTAAGCTTACCATGACTCCCCAGTCGCTGCT
                                M T P Q S L L>
                                _____GPR56_____>

>PstI
|
          60      70      80      90      100
GCAGACGACACTGTTCTGCTGAGTCTGCTCTTCTGCTCCAAGGTGCCC
  Q T T L F L L S L L F L V Q G A>
  _____GPR56_____>

                                >PstI
                                |
          110      120      130      140      150
ACGGCAGGGGCCACAGGGAAGACTTTTCGCTTCTGCAGCCAGCGGAACCAG
H G R G H R E D F R F C S Q R N Q>
  _____GPR56_____>

          160      170      180      190      200
ACACACAGGAGCAGCCTCCACTACAAACCCACACCAGACCTGCGCATCTC
  T H R S S L H Y K P T P D L R I S>
  _____GPR56_____>

                                >PstI
                                |
          210      220      230      240      250
CATCGAGAACTCCGAAGAGGCCCTCACAGTCCATGCCCCTTTCCCTGCAG
  I E N S E E A L T V H A P F P A>
  _____GPR56_____>

          260      270      280      290      300
CCCACCCTGCTTCCCGATCCTTCCCTGACCCAGGGGCCTCTACCACTTC
A H P A S R S F P D P R G L Y H F>
  _____GPR56_____>

          310      320      330      340      350
TGCCTCTACTGGAACCGACATGCTGGGAGATTACATCTTCTCTATGGCAA
  C L Y W N R H A G R L H L L Y G K>
  _____GPR56_____>

          360      370      380      390      400
GCGTGACTTCTTGCTGAGTGACAAAGCCTCTAGCCTCCTCTGCTTCCAGC
  R D F L L S D K A S S L L C F Q>
  _____GPR56_____>

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                                >ApaI
                                |
          410          420          | 430          440          450
ACCAGGAGGAGAGCCTGGCTCAGGGCCCCCGCTGTTAGCCACTTCTGTC
H Q E E S L A Q G P P L L A T S V>
_____GPR56_____>

          460          470          480          490          500
ACCTCCTGGTGGAGCCCTCAGAACATCAGCCTGCCCAGTGCCGCCAGCTT
T S W W S P Q N I S L P S A A S F>
_____GPR56_____>

          510          520          530          540          550
CACCTTCTCCTTCCACAGTCCTCCCCACACGGCCGCTCACAATGCCTCGG
T F S F H S P P H T A A H N A S>
_____GPR56_____>

          560          570          580          590          600
TGGACATGTGCGAGCTCAAAAGGGACCTCCAGCTGCTCAGCCAGTTCTCTG
V D M C E L K R D L Q L L S Q F L>
_____GPR56_____>

          610          620          630          640          650
AAGCATCCCCAGAAGGCCTCAAGGAGGCCCTCGGCTGCCCCCGCCAGCCA
K H P Q K A S R R P S A A P A S Q>
_____GPR56_____>

          660          670          680          690          700
GCAGTTGCAGAGCCTGGAGTCGAAACTGACCTCTGTGAGATTTCATGGGGG
Q L Q S L E S K L T S V R F M G>
_____GPR56_____>

          710          720          730          740          750
ACATGGTGTCTTTCGAGGAGGACCGGATCAACGCCACGGTGTGGAAGCTC
D M V S F E E D R I N A T V W K L>
_____GPR56_____>

          760          770          780          790          800
CAGCCCACAGCCGGCCTCCAGGACCTGCACATCCACTCCCGGCAGGAGGA
Q P T A G L Q D L H I H S R Q E E>
_____GPR56_____>

          810          820          830          840          850
GGAGCAGAGCGAGATCATGGAGTACTCGGTGCTGCTGCCTCGAACACTCT
E Q S E I M E Y S V L L P R T L>
_____GPR56_____>

          860          870          880          890          900
TCCAGAGGACGAAAGGCCGGAGCGGGGAGGCTGAGAAGAGACTCCTCCTG
F Q R T K G R S G E A E K R L L L>
_____GPR56_____>

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                                >EcoRI
                                |
          910          920          930          940          950
GTGGACTTCAGCAGCCAAGCCCTGTTCCAGGACAAGAATTCCAGCCAAGT
V D F S S Q A L F Q D K N S S Q V>
_____GPR56_____>

          960          970          980          990          1000
CCTGGGTGAGAAGGTCTTGGGGATTGTGGTACAGAACACCAAAGTAGCCA
L G E K V L G I V V Q N T K V A>
_____GPR56_____>

          1010          1020          1030          1040          1050
ACCTCACGGAGCCCGTGGTGCTCACTTTCCAGCACCAGCTACAGCCGAAG
N L T E P V V L T F Q H Q L Q P K>
_____GPR56_____>

          1060          1070          1080          1090          1100
AATGTGACTCTGCAATGTGTGTTCTGGGTTGAAGACCCACATTGAGCAG
N V T L Q C V F W V E D P T L S S>
_____GPR56_____>

          1110          1120          1130          1140          1150
CCCCGGGCATTGGAGCAGTGCTGGGTGTGAGACCGTCAGGAGAGAAACCC
P G H W S S A G C E T V R R E T>
_____GPR56_____>

          1160          1170          1180          1190          1200
AAACATCCTGCTTCTGCAACCACTTGACCTACTTTGCAGTGCTGATGGTC
Q T S C F C N H L T Y F A V L M V>
_____GPR56_____>

          1210          1220          1230          1240          1250
TCCTCGGTGGAGGTGGACGCCGTGCACAAGCACTACCTGAGCCTCCTCTC
S S V E V D A V H K H Y L S L L S>
_____GPR56_____>

          1260          1270          1280          1290          1300
CTACGTGGGCTGTGTCGTCTCTGCCCTGGCCTGCCTTGTCAACATTGCCG
Y V G C V V S A L A C L V T I A>
_____GPR56_____>

          1310          1320          1330          1340          1350
CCTACCTCTGCTCCAGGGTGCCCCCTGCCGTGCAGGAGGAAACCTCGGGAC
A Y L C S R V P L P C R R K P R D>
_____GPR56_____>

          1360          1370          1380          1390          1400
TACACCATCAAGGTGCACATGAACCTGCTGCTGGCCGTCTTCCTGCTGGA
Y T I K V H M N L L L A V F L L D>
_____GPR56_____>

          1410          1420          1430          1440          1450
CACGAGCTTCCTGCTCAGCGAGCCGGTGGCCCTGACAGGCTCTGAGGCTG
T S F L L S E P V A L T G S E A>
_____GPR56_____>

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1460 1470 1480 1490 1500  
GCTGCCGAGCCAGTGCCATCTTCCTGCACTTCTCCCTGCTCACCTGCCTT  
G C R A S A I F L H F S L L T C L>  
GPR56>

>XhoI  
1510 1520 1530 1540 1550  
TCCTGGATGGGCCTCGAGGGGTACAACCTCTACCGACTCGTGGTGGAGGT  
S W M G L E G Y N L Y R L V V E V>  
GPR56>

1560 1570 1580 1590 1600  
CTTTGGCACCTATGTCCCTGGCTACCTACTCAAGCTGAGCGCCATGGGCT  
F G T Y V P G Y L L K L S A M G>  
GPR56>

>BstXI  
1610 1620 1630 1640 1650  
GGGGCTTCCCCATCTTTCTGGTGACGCTGGTGGCCCTGGTGGATGTGGAC  
W G F P I F L V T L V A L V D V D>  
GPR56>

>BstXI  
1660 1670 1680 1690 1700  
AACTATGGCCCCATCATCTTGGCTGTGCATAGGACTCCAGAGGGCGTCAT  
N Y G P I I L A V H R T P E G V I>  
GPR56>

>BamHI  
1710 1720 1730 1740 1750  
CTACCCTTCCATGTGCTGGATCCGGGACTCCCTGGTCAGCTACATCACCA  
Y P S M C W I R D S L V S Y I T>  
GPR56>

1760 1770 1780 1790 1800  
ACCTGGGCCTCTTCAGCCTGGTGTCTGTTCAACATGGCCATGCTAGCC  
N L G L F S L V F L F N M A M L A>  
GPR56>

>BstXI  
1810 1820 1830 1840 1850  
ACCATGGTGGTGCAGATCCTGCGGCTGCGCCCCACACCCAAAAGTGGTC  
T M V V Q I L R L R P H T Q K W S>  
GPR56>

1860 1870 1880 1890 1900  
ACATGTGCTGACACTGCTGGGCCTCAGCCTGGTCCTTGGCCTGCCCTGGG  
H V L T L L G L S L V L G L P W>  
GPR56>

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      1910      1920      1930      1940      1950
CCTTGATCTTCTTCTCCTTTGCTTCTGGCACCTTCCAGCTTGTCGTCCTC
A  L  I  F  F  S  F  A  S  G  T  F  Q  L  V  V  L>
_____GPR56_____>
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      1960      1970      1980      1990      2000
TACCTTTTTCAGCATCATCACCTCCTTCCAAGGCTTCCTCATCTTCATCTG
Y  L  F  S  I  I  T  S  F  Q  G  F  L  I  F  I  W>
_____GPR56_____>
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                >PstI
                |
      2010      2020      2030      2040      2050
GTACTGGTCCATGCGGCTGCAGGCCCGGGGTGGCCCCTCCCCTCTGAAGA
Y  W  S  M  R  L  Q  A  R  G  G  P  S  P  L  K>
_____GPR56_____>
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      2060      2070      2080      2090      2100
GCAACTCAGACAGCGCCAGGCTCCCCATCAGCTCGGGCAGCACCTCGTCC
S  N  S  D  S  A  R  L  P  I  S  S  G  S  T  S  S>
_____GPR56_____>
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      >XbaI
      |
      2110      2120      2130
AGCCGCATCTAGATGACTAACTATAGGCTCTAGT
S  R  I  *>
_____>
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