

G protein-coupled receptor 45 (GPR45) in pcDNA3.1+  
Sequence Range: 1 to 1236

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      >KpnI                               >EcoRI
      |                                   |
    >Asp718I   >BamHI   >BstXI
      |         |         |         |
      10       20       30       40       50
TTAGCTTGGTACCGAGCTCGGATCCACTAGTCCAGTGTGGTGAATTCAC

      60       70       80       90      100
CATGGCCTGCAACAGCACGTCCCTTGAGGCTTACACATACCTGCTGCTGA
  M  A  C  N  S  T  S  L  E  A  Y  T  Y  L  L  L>
      _____GPR45_____>

      110      120      130      140      150
ACACCAGCAACGCCTCAGACTCGGGGTCCACCCAGTTGCCCCGACCCCTC
  N  T  S  N  A  S  D  S  G  S  T  Q  L  P  A  P  L>
      _____GPR45_____>

      160      170      180      190      200
AGGATCTCCTTGGCCATAGTGATGCTGCTGATGACCGTGGTGGGGTTCT
  R  I  S  L  A  I  V  M  L  L  M  T  V  V  G  F  L>
      _____GPR45_____>

      210      220      230      240      250
GGGCAAACTGTGGTCTGCATCATCGTGTACCAGAGGCCGGCTATGCGCT
  G  N  T  V  V  C  I  I  V  Y  Q  R  P  A  M  R>
      _____GPR45_____>

      260      270      280      290      300
CGGCCATCAACCTGCTGCTGGCCACCCTGGCCTTCTCCGACATCATGCTG
  S  A  I  N  L  L  L  A  T  L  A  F  S  D  I  M  L>
      _____GPR45_____>

      310      320      330      340      350
TCCCTCTGCTGCATGCCCTTCACCGCCGTCAACCTCATCACCGTGCCTG
  S  L  C  C  M  P  F  T  A  V  T  L  I  T  V  R  W>
      _____GPR45_____>

      360      370      380      390      400
GCACTTTGGGGACCACTTCTGCCGCCTCTCAGCCACGCTCTACTGGTTTT
  H  F  G  D  H  F  C  R  L  S  A  T  L  Y  W  F>
      _____GPR45_____>

      410      420      430      440      450
TTGTCCTGGAGGGCGTGGCCATCCTGCTCATCATCAGCGTGGACCGCTTC
  F  V  L  E  G  V  A  I  L  L  I  I  S  V  D  R  F>
      _____GPR45_____>

      460      470      480      490      500
CTCATCATCGTCCAGCGCCAGGACAAGCTGAACCCGCGCAGGGCCAAGGT
  L  I  I  V  Q  R  Q  D  K  L  N  P  R  R  A  K  V>
      _____GPR45_____>

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                                >ApaI
                                |
          510          520          530          540          550
GATCATCGCGGTCTCCTGGGTGCTGTCCTTCTGCATCGCGGGGCCCTCGC
  I  I  A  V  S  W  V  L  S  F  C  I  A  G  P  S>
_____GPR45_____>

                                >ApaI
                                |
          560          570          580          590          600
TCACGGGCTGGACGCTGGTGGAGGTGCCGGCGGGGCCCCACAGTGCGTG
  L  T  G  W  T  L  V  E  V  P  A  R  A  P  Q  C  V>
_____GPR45_____>

          610          620          630          640          650
CTGGGCTACACGGAGCTCCCCGCTGACCGCGCCTACGTGGTCACCTTGGT
  L  G  Y  T  E  L  P  A  D  R  A  Y  V  V  T  L  V>
_____GPR45_____>

          660          670          680          690          700
GGTGGCCGTGTTCTTCGCGCCCTTTGGCGTCATGCTGTGCGCCTACATGT
  V  A  V  F  F  A  P  F  G  V  M  L  C  A  Y  M>
_____GPR45_____>

          710          720          730          740          750
GCATCCTCAACACGGTCCGCAAGAACGCCGTGCGCGTGCACAACCAGTCG
  C  I  L  N  T  V  R  K  N  A  V  R  V  H  N  Q  S>
_____GPR45_____>

          760          770          780          790          800
GACAGCCTGGACCTGCGGCAGCTCACCAGGGCGGGCCTGCGGCGCCTGCA
  D  S  L  D  L  R  Q  L  T  R  A  G  L  R  R  L  Q>
_____GPR45_____>

          810          820          830          840          850
GCGGCAGCAACAGGTCAGCGTGGACTTGAGCTTCAAGACCAAGGCCTTCA
  R  Q  Q  Q  V  S  V  D  L  S  F  K  T  K  A  F>
_____GPR45_____>

          860          870          880          890          900
CCACCATCCTGATCCTCTTCGTGGGCTTCTCCCTCTGCTGGCTGCCCCAC
  T  T  I  L  I  L  F  V  G  F  S  L  C  W  L  P  H>
_____GPR45_____>

          910          920          930          940          950
TCCGTCTACAGCCTCCTGTCTGTGTTTAGCCAGCGCTTTTACTGCGGTTTC
  S  V  Y  S  L  L  S  V  F  S  Q  R  F  Y  C  G  S>
_____GPR45_____>

          960          970          980          990          1000
CTCCTTCTACGCCACCAGCACCTGCGTCCTGTGGCTCAGTTACCTCAAGT
  S  F  Y  A  T  S  T  C  V  L  W  L  S  Y  L  K>
_____GPR45_____>

          1010          1020          1030          1040          1050
CCGTCTTCAACCCCATCGTCTACTGCTGGAGAATCAAAAAATTCCGCGAG
  S  V  F  N  P  I  V  Y  C  W  R  I  K  K  F  R  E>

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____GPR45____>
      1060      1070      1080      1090      1100
GCCTGCATAGAGTTGCTGCCCCAGACCTTCCAAATCCTCCCCAAAGTGCC
  A  C  I  E  L  L  P  Q  T  F  Q  I  L  P  K  V  P>
____GPR45____>
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      >BamHI
      |
      |1110      1120      1130      1140      1150
TGAGCGGATCCGAAGGAGAATCCAGCCAAGCACAGTCTACGTGTGCAATG
  E  R  I  R  R  R  I  Q  P  S  T  V  Y  V  C  N>
____GPR45____>
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      >XhoI      >XbaI
      |      |
      |1160      1170|      1180      1190      1200
AAAACCAGTCTGCGGTTTAGCTCGAGTCTAGATGACTAACTATAGTGTCA
  E  N  Q  S  A  V  *>
____GPR45____>
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      1210      1220      1230
CCTAAATCGTATGTCCCTTTAGTGAGGGTAATGTCC
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