

>GXP_123003 (C17orf50/human)

Bold portions of the sequence are conserved among humans, macaques, and capuchin monkeys^{1,2}

< C17orf50 Promoter - 1417 nucleotides

gggaggctgaggcaggagaattgcttgaacccgggaggcagaggttgcag 50
ccctccgactccgtcctcttaacgaacttgggccctccgtctccaacgtc

tgagccgagattgcgccaactgcactccagcctgggtgacggtgagactct 100
actcggctctaacgcggtgacgtgaggtcggaccactgccactctgaga
Ccaat enhancer/binding protein

gtccgctacccccaccgccccccaaaaaagattcagggtttcctaagct 150
caggcgatgggggggtggcgggggggttttttctaagtccaaaggattcga
MEF3 binding sites

PAR/bZIP family Motif composed of binding sites for pluripotency or stem cell factors

tgggatttctgtagtaatgcaaacctctgcatataccggtatccactggc 200
accctaaagacatcattacgtttggagacgtatatggccataggtgaccg

actcatttgtgtcactcataggacaccgaagcaaggaagctgaggcaa 250
tgagtaaacacagtgagtatcctgtggcttcggtcccttcgactccgttt

caggccaaagttgctgtgccacgagtaataaagtcctttgtctctgactt 300
gtccggtttcaacgacacggtgctcattatttcaggaaacagagactgaa

ggagcctcatgttttctggcagcaccatgaaactacaactagttaacat 350
cctcggagtacaaaagaccgctcgtgggtactttgatggttgatcaattgta

ggtagcttgcaaataaggataacatttcagatccttcacagttcttgatag 400
ccatcgaacgtttatcctattgtaaagcttaggaagtgtcaagaactatc

ggttgcccccttgtgactacgagattcctgggggccaaggctctgctctctg 450
ccaacgggggaacactgatgctctaaggacccccggtccagacgagagac
PAX-4/PAX-6 paired domain binding sites

ttctccagcccatcaacttgcctccaccaaacttagatgcccaaaggaag 500

¹ ClustalW [<http://www.genome.jp/tools-bin/clustalw>], accessed 28 March 2018

² BoxShade, accessed 28 March 2018

aagaggtcgggtagttgaacggaggtggtttgaatctacgggtttccttc
CCAAT Binding factors

ggactccattgcctccactctcagacttggatggaggatcgcagatcac 550
cctgaggtaacgggaggtgagagtctgaacctacctcctagcgtctagt

tattagactgggctctctttgaggtcagcaacttcatctcaacagatgga 600
ataatctgacccgagagaaactccagtcgttgaagtagagttgtctacct
bHLH transcription factors

gggctttccagagctgaatctgtccattgtccatctacacattcctctct 650
cccgaaaggctctcgacttagacaggtaacaggtagatgtgtaaggagaga

gtgccaacacactccacttcgagtcaggaaaggaaaggattttctgaa 700
cacggttggtgaggtgaagctcaggtcctttcctttcctaaaaggactt

gctccttgattttac{tccctccctcacc}tgcccccaacaaatacaca 750
cgaggaactaaaatgagggagggagtggggacggggggtgtttatgtgt
Chorion-specific transcription factors with a GCM DNA binding domain

atatccaggagctataccagcctggtaccgagtcctacttctactgga 800
tataggtcctcgatatggtcggaccatgggcctcaggatgaaggatgacct

THAP domain containing protein
cttggcaccattcccttggttccctggactggcaatgaaatggaata 850
gaaccgtggtgaagggaacacaaggaaccatgaccgttactttacctttat

ggagaaagtggagagcattggggtgaagaaggataaggataagacaggaaga 900
cctcttcacctctcgtacccacttcttctattctattctgtccttct
Brn-5 POU domain factor
Lim homeodomain factors

ggaa{gacagaatataatgataca}aacaaaccagtgctttcagtgcttc 950
ccttctgtcttataattactatgtttggttggtcacgaaagtcacgaagg
{Pancreatic and intestinal homeodomain transcription factor}

Glucocorticoid responsive and related elements
cataggccaggtaaagcgtggtactgtattactatctctgacttacagat 1000
gtatccggtccatttcgcaccatgacataatgatagagactgaatgtcta

gaagagactgaggggtcagagagataccatgctgaaatcagataactttt 1050
cttctctgactccagtcctctctatgggtacgactttagtctattgaaa

Vertebrate caudal related homeodomain protein

a **catcttatgtggtag** agctgggatttg **aacccagtttattg** cgggc **c**caaa 1100
tataaatacaccatctcgaccctaaa cttgggtcaaataacgccc **gg**ttt

TATA Binding factor

AHR-arnt heterodimers and AHR-related factors

gccatc{ctctcttcccctt **ttaat**} **gccttcctaagaggggaag** gtag **gagac** 1150
cggtaggagagaaggggaaat **tacggaaggattctcccttccatcctctg**

RP58 (ZFP238) zinc-finger protein

atctgagttgttagtgctttgggaggctctggaaaaggaaattattcctg 1200
tagactcaacaatcacgaaaccctccgagaccttttctttaataaggac

ggcagagccttatgggcaggtgaggttctagccccacccttgtgaccta 1250
ccgtctcgggaatacccgctccactccaagatcggggtggggaacactggat

MYT1 C2HC zinc finger protein

a tagaggccctagacatgag **acaagttctatgggt** **tctgggcaccctct** 1300
tatctccgggatctgtactctgtttcaagataccaagaccctgtgggaga

cacatcccagtctctgatcagggaaagcagggcacagccttggaagaat 1350
gtgtaggggtcagagactagtcctttcgtcccgtgtcgaacccttctta

ggataagcatggtg **agtggggctggaggcaggggtgggg** ctggaggacagg 1400
cctattcgtaccactcaccccgacctccgtcccaccccgacctcctgtcc

Pleomorphic adenoma gene

acctcttgaccctagct 1417
tggaactgggatcga

*Double stranded thanks to Sequence Utilities [http://molbiol.edu.ru/eng/scripts/01_12.html] accessed 2 April 2018