

Supplementary table 2

Prediction of NPM1 protein binding with 6 sites within *IQGAP2* gene promoters

>hg38_knownGene_ENST00000274364.11 range=chr5:76401285-76403284 5'pad=0 3'pad=0
strand=+ repeatMasking=none

TTTCTTTCCCTTGGATGCTCTCCATCCAGCTTTTACCACACTTCCACTTCAAGCCACACT
TTCAAACCCTGTCACCTTCCTGGACCATTTTAGTTCAGAGTGATTTTTTCACCCACCTCT
AAATATATAGACTACTCATTATTTGGGCTCTAAGTCATACACTCATACGAAAATTGTTAT
GTGTAAATACTTAATTGTTAACACTTGACAAATGCAACAACAGAAATGGAATGAACCTT
AGACATCATTAAATTCAGCATCTCCTGACATGCACGAAAATCCCCCTCCACATTTCTCCT
TTGGGTGAATAATCAATTGACAGGGTGCCGAGCCTCAAATGTGGCCATTTCGCCTCTGAA
TTGTTCTTAGACTGAGAGGCATCTGCTTTTTAAGAAAGGAAAACCTCCATTTCATCCCAT
CCAAACAGGTGAGAATCTAATGCCATCAGGGAAAAAATATTTTGTATCCCG
TCTGAATTGAGAGTTCCCTGTGTACAGTTTACGTCCCTGTGAGCATCTACCACTCACAG
AGCCACCCTAAGCACGCTCTGCAGTGTGAGCATCACCTGGCAGTATGCTAGAAATTAG
AAATGCAAATTCATGAGCACCAGCCAGACCCATTGAGTCGGAAATTCTCAGGGTGGG
GCCAAGAATGTGAGTTTCAACAAGTTTGAGAAGGACTGCGTCTCCTATATGAAATGG
AAAACAGCTGCTCATCCTCTGTATCCTTGCATAATAAAAAATGATTAGTGTCACTATGCC
ACCATTTCCCTCAGCGAAATAATTTCCATCCCCCACC GCCTCCGAGGGTCTTGC ACTCT
CACCCAGGCTGGAGTGC ACTGGTGCAATCACAACCCACAGCAGCCTTGTCTCTCGGG
CTCAAGCAATCCTCCACCTCAGCTTCTGAGTAGCTTGGGACTGCAGGCGCAACCAC
CACGCCCCGGCTAATACGGCTAATATTTTTTTCATTTTTTGGAGAGACGGGGTCTCGCT
ATGTTGCCCAGGCTGGTCTGGAACCTTGGGCTCAAGGGATCCTTGTGCCTCGGCTTC
ACAAAGTGCTGGGATTACAGGCGTGAGCCGCCGCGCCCGGCTCTAAATAATTCTTATC
GCCCTCCCTCAGTTTGTCTTCTGTTATCGGGTCACCCACACATTCCACAATTGTCAA
TAGGTGAGGGCACAGGTACGGAAGCGTCCCGCATTCCCTCCAGATTTTATCACGCTG
AGACACAAAGAGAAAAATAGCTCTGGCGACCGCATGAAAACCCCGATTTCAAAACA
GCCACATGCAGTTTAATTTCTTAAAAGCTTAGCCGGAAGGTTTCTGTGGCTTGCGA
CCCAGCTGGGCTTGAGAGAAGGCTCTGCACACTGGGGCGGGGCGGGCACAAGGT
GATCGGAGGGAGGGGATGACTCGCAGTTGTGTTTGAGTGGTTGCCTTGGGTTATCT
TGTTCTCCAGCACACACACTCAGTTTCTTGTGATAAGGGGAACCCTGTTATTTGT
AGACAAAAAGTGACAGAAGCAACTTTCGAAGCAAAAAAAAAAAAAAAAAAAAAA
AAACAAAACCAAAAAGACGAAGAAGAACAAGTCAACGTGAAATCTCCCCAG
AGGAAAAGGAACCGCGCTGTTTGTCCCTCAGTAACTGAGCAACACCCCGGACACGAA
GGGCTCCCTGTGACTTCTGCGTTTTTCTTGCATTCTCCGCGTTGGTTCACTTCCACC
CTCGAAACTCTCCAGAAGCGAGAAATAAGGCGGGGTGGCCGCCACCCCGAGGCCACC
AGCTGTGCGGGGGCCCCAGCTGCAGGGGGTCCCGGCCAGCGTCCCTCTCGGCCCCCT
TCCCTCTCCCCCGGGGAGAAGGGGCGGGTCCACGCGGCTGGGCGCTGCGCCCGAC
ACGCGGTAGGGGTGCTGCGTCTCGGCGCGCGCTCCACCGCGGTGAATAACGGGGC
CTGGCTGGAGGAGAAAGC

Red highlights denote potential NPM1 binding sites within the *IQGAP2* promoter

Green highlights indicate reference sequences used for primer design.

primers list:

Gene Name	Forward Sequence (5'-3')	Reverse Sequence (5'-3')
primer 1 for binding site 1	GCACGAAAATCCCCTTCCAC	TGCCTCTCAGTCTAAGAACAATT
primer 2 for binding site 2	CAGCCCAGACCCATTGAGT	TGAGCAGCTGTTTTCCATTTC
primer 3 for binding site 3	CTTATCGCCCTCCCTCAGTT	AAAATCTGGAGGGAATGCGG
primer 4 for binding site 4&5	AGCCGGAAAAGGTTTCTGTG	CCACTCAAAACACAACCTGCG
primer 5 for binding site 6	TCTCGGCCCTTCCCTCT	AGCCAGGCCCCGTTATTC