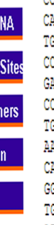
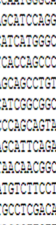




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Circular RNA Interactome



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Circular RNA

RBP on CircRNA

miRNA Target Sites

Divergent Primers

siRNA Design

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hsa_circ_0076305 circRNA Mature Sequence

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60TGCCTCACTTTTGGTGGAGTACAGATCGGAGCTCCACCCGAGAGCTTCTCGTGCCTCTTTTGACACGCG
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Length: 1098 nt

B Query: sequence of circPGC Vector Sbjct: Sequence information

circPGC

Score	Expect	Identities	Gaps	Strand
2152 bits(1165)	0.0	1165/1165(100%)	0/1165(0%)	Plus/Minus
Query 1	AAAGGTACGTACTAATGAC	1165/1165(100%)	0/1165(0%)	60
Sbjct 1212	AAAGGTACGTACTAATGAC	1165/1165(100%)	0/1165(0%)	1165
Query 61	CATCGGGACCTCCACCCGAGAACTTCTCGTGGCTCTTTTGACACCGGCTCTCCAACTTGTG			120
Sbjct 1152	CATCGGGACCTCCACCCGAGAACTTCTCGTGGCTCTTTTGACACCGGCTCTCCAACTTGTG			1093
Query 121	GGTGCCTCTCTGCTACTGTCGACGAGCGCGGCTCGACCAAGTCACTCCGCTTCAACCCGAC			180
Sbjct 1092	GGTGCCTCTCTGCTACTGTCGACGAGCGCGGCTCGACCAAGTCACTCCGCTTCAACCCGAC			1033
Query 181	CGAGTCTGCTCCACTACTGCCAACCAATGGCGACAGCTTCTTCGCTGAGTATGGCAGTGGCAG			240
Sbjct 1032	CGAGTCTGCTCCACTACTGCCAACCAATGGCGACAGCTTCTTCGCTGAGTATGGCAGTGGCAG			973
Query 241	CCTCACCGGCTTCTTGGCTATGACACCGCTGACTGTCCAGACGATCCAGGTGCCCAACCA			300
Sbjct 972	CCTCACCGGCTTCTTGGCTATGACACCGCTGACTGTCCAGACGATCCAGGTGCCCAACCA			913
Query 301	GGAGTTCGGCTTGAAGTGAAGTGAAGCGCTGGTACCAACTTGGCTATGCGGCACTTTGATGG			360
Sbjct 912	GGAGTTCGGCTTGAAGTGAAGTGAAGCGCTGGTACCAACTTGGCTATGCGGCACTTTGATGG			853
Query 361	CATCATGGCGCTGGGCTAAGCTGCTCTCTGCTGGTGAAGGGCCACCAAGCATATGACGG			420
Sbjct 852	CATCATGGCGCTGGGCTAAGCTGCTCTCTGCTGGTGAAGGGCCACCAAGCATATGACGG			793
Query 421	CATGCTGACAGGAGCGCGCTGCTGCTGCGGAGCTTTCAGCGCTTCACTCTACCAACCAACCA			480
Sbjct 792	CATGCTGACAGGAGCGCGCTGCTGCTGCGGAGCTTTCAGCGCTTCACTCTACCAACCAACCA			733
Query 481	GGGCTCCACCGGGGAGCGGCTTGTCTTTGGGGCTGCGATAGCAGCGCTGTACACGGGGCA			540
Sbjct 732	GGGCTCCACCGGGGAGCGGCTTGTCTTTGGGGCTGCGATAGCAGCGCTGTACACGGGGCA			673
Query 541	GATCTACTGGGCGCTGTCAACCGGAACTCTACTGCGGAGATTGGCATGAAAGCATTTCT			600
Sbjct 672	GATCTACTGGGCGCTGTCAACCGGAACTCTACTGCGGAGATTGGCATGAAAGCATTTCT			613
Query 601	CATCGGCGCGACGGGCTCCGCTGGTGTCTTCTGAGGGTTGCCAGGCCATCGTGACACAGG			660
Sbjct 612	CATCGGCGCGACGGGCTCCGCTGGTGTCTTCTGAGGGTTGCCAGGCCATCGTGACACAGG			553
Query 661	CACCTCTCTGCTACTGTGCCCGACGAGTACATGAGTGCTCTTCTGACGGCCACAGGGGC			720
Sbjct 552	CACCTCTCTGCTACTGTGCCCGACGAGTACATGAGTGCTCTTCTGACGGCCACAGGGGC			493
Query 721	CCAGGAGGATGAGTATGACAGATTCTCGTGAAGCTTAACAGCATTCAGAAATCTGCCAG			780
Sbjct 492	CCAGGAGGATGAGTATGACAGATTCTCGTGAAGCTTAACAGCATTCAGAAATCTGCCAG			433
Query 781	CTTGACCTTCAATCAATGAGTGTGGAGTTTCCCTTGCCAGCTTCTCTCATATCTCTCAG			840
Sbjct 432	CTTGACCTTCAATCAATGAGTGTGGAGTTTCCCTTGCCAGCTTCTCTCATATCTCTCAG			373
Query 841	TAAACAAGCGCTACTGACACGCTGGGAGTGGAGCCCACTAAGCTGCTCTCCAGAAAGCGGCA			900
Sbjct 372	TAAACAAGCGCTACTGACACGCTGGGAGTGGAGCCCACTAAGCTGCTCTCCAGAAAGCGGCA			313
Query 901	GGCCCTGTGGATCTCGGGGATGTCTTCTTCTCAGGCTCTACTACTTCGCTTCAACGACTTGG			960
Sbjct 312	GGCCCTGTGGATCTCGGGGATGTCTTCTTCTCAGGCTCTACTACTTCGCTTCAACGACTTGG			253
Query 961	CAACAACAGAGTAGGCTTTGCCACTCGCGCTAGACTTGTGCTGCTCGACAGCTGGGGTCC			1020
Sbjct 252	CAACAACAGAGTAGGCTTTGCCACTCGCGCTAGACTTGTGCTGCTCGACAGCTGGGGTCC			193
Query 1021	CCTCTTCTCTTTCGACCTGCACCTCTCTAGGCGATTGATCTGCTTTTCCACTCTGGATT			1080
Sbjct 192	CCTCTTCTCTTTCGACCTGCACCTCTCTAGGCGATTGATCTGCTTTTCCACTCTGGATT			1

Table SI. Primer sequences used for PCR.

Gene	Sequence (5'-3')
circPGC-F	TACTTCAGGCTGCCTACTTTGGTGAGATCAG
circPGC-R	CTTGCTTCTTACTAAAGAAGAAGCTATTTATTATTAGAGAAAGTCCAGAGTCCAGA
pcDNA (3.1)-F	GTTCTTCTTTAGTAAGAAGCAAGGAAAAGAATTAGGCTCG
pcDNA (3.1)-R	GTAGGCAGCCTGAAGTATAAAAAAAAAAGTCATTAGTACGTACCT
F, forward; R, reverse.	

Table SII. Primer sequences used for quantitative PCR.

Gene	Sequence (5'-3')
hsa_circ_0076305 (qPCR)-F	CCCTCCTAGGGCATTGTATCTG
hsa_circ_0076305 (qPCR)-R	GCCGGTGTCAAAAAGGACCA
hsa_circ_0076304 (qPCR)-F	CCACTCTGGATTTCAGCCTTCT
hsa_circ_0076304 (qPCR)-R	TGCCATCAAAGTGCATAG
hsa_circ_0000390 (qPCR)-F	GCCGGTGTCAAAAAGGACCA
hsa_circ_0000390 (qPCR)-R	GAGCATCTCATACGGGGAA
PGC mRNA (qPCR)-F	CTGCGACTGCAGAACTCAGA
PGC mRNA (qPCR)-R	CAGCAAGCCCTTCTCCTTCA
GAPDH (qPCR)-F	ACCCACTCCTCCACCTTTGAC
GAPDH (qPCR)-R	TGTTGCTGTAGCCAAATTCGTT

F, forward; R, reverse.

Table SIII. Association between circPGC expression and clinicopathological characteristics of patients with GC.

Characteristic	Number of patients (n=30)	High circPGC expression, n (%) (n=4)	Low circPGC expression, n (%) (n=26)
Age, years			
≥60	22	2 (50)	20 (77)
<60	8	2 (50)	6 (23)
Sex			
Female	6	0 (0)	6 (23)
Male	24	4 (100)	20 (77)
TNM staging			
I/II	13	4 (100)	9 (35)
III/IV	17	0 (0)	17 (65)
Primary focus			
T1/T2	4	2 (50)	2 (8)
T3/T4	26	2 (50)	24 (92)
Lymphatic metastasis			
Yes	21	3 (75)	18 (69)
No	9	1 (25)	8 (31)
CircPGC, CircPGC, hsa_circ_0076305; TNM, tumor-node-metastasis.			