What is circAD?

CircAD (circRNAs associated with diseases) is a comprehensive, manually curated resource for dysregulated circRNAs in disease. This database provides the information including source PMID, genome locus, gene name, method of experimental validation, fold change and significance. In exception to other databases, we have also included the primer details for respective circRNAs available in the publication. For cases where primer details were not available, we have included suggested primers for the circRNAs. CircAD contains 930 circRNAs annotations including 850 circRNAs from human, 71 entries from mouse, 24 from rat and 4 from chicken.
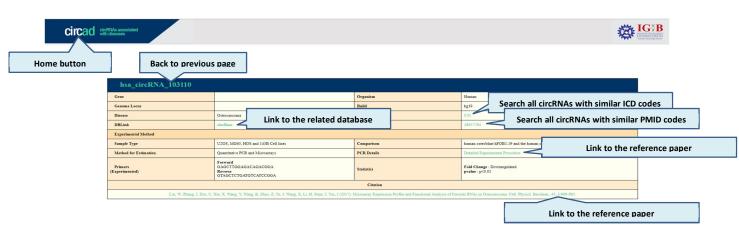
Home page

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circad — circRNAs associated with diseases

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circRNA Name	Alias	Gene Name	Genome Locus	Organism	Disease
hsa_circRNA_100241				Human	Osteosarcoma
hsa_circRNA_103110				Human	Osteosarcoma
hsa_circRNA_103309		RBMS3		Human	Osteosarcoma
mmu_circRNA_25329				Mouse	Ischemic brain after stroke
ADCY1	hsa_circ_19159	ADCY1		Human	Gliomas
BEND6	hsa_circ_0131980	BEND6		Human	Gliomas
CDR1as/ciRS-7/mmu_circ_0001878		Cdr1	chr11:33307958-33309057:+	Mouse	Myocardial infarction
cir-GLI2	hsa_circ_0056288	GLI2	chr2:121708818-121713006:+	Human	Osteosarcoma
Cir-ITCH	hsa_circ_0001141, hsa_circ_001763	ITCH	chr20:33001547-33037285:+	Human	Esophageal squamous cell carcinoma
cir-ITCH	hsa_circ_0001141, hsa_circ_001763	ITCH	chr20:33001547-33037285:+	Human	Colorectal cancer
Cir-ITCH/hsa_circ_0001141	hsa_circ_001763	ITCH	chr20:33001547-33037285:+	Human	Bladder cancer
cir7	CDR1as,hsa_circ_0001946		chrX:139865339-139866824:+	Human	Colorectal cancer
circ SHPRH		SHPRH		Human	Gliomas
Circ-104916		NEK6		Human	Gastric cancer
circ-BANP		BANP		Human	Colorectal cancer
Circ-CER/circRNA_100876/hsa_circ_0023404	hsa_circ_0023404	RNF121	chr11:33307958-33309057:+	Human	Osteoarthritis
circ-Foxo3		Foxo3		Mouse	Breast cancer
circ-Foxo3/hsa_circ_0006404	hsa_circ_0006404	FOXO3	chr6:108984657-108986092:N/A	Human	Myocardial senescence
circ-KLDHC10/hsa_circ_0082333		KLHDC10	chr7:129756284-129762042:+	Human	Colorectal cancer
circ-LDLRAD3/hsa_circ_0006988		LDLRAD3		Human	Pancreatic cancer
circ-NT5C2/hsa_circ_0092509		NT5C2	chr10:104850367-104850753:-	Human	Osteosarcoma

Detailed circRNA information

circad — circRNAs associated with diseases

Home button

Back to previous page

hsa_circRNA_103110

Gene		Organism	Human
Genome Locus		Build	hg19
Disease	Osteosarcoma		C41
DBLink	circBase		28957794
Experimental Method			
Sample Type	U2OS, MG63, HOS and 143B Cell lines	Comparison	human osteoblast hFOB1.19 and the human o...
Method for Estimation	Quantitative PCR and Microarrays	PCR Details	Detailed Experimental Procedure
Primers (Experimented)	Forward GAGCTTGGAGACAGACGGA Reverse GTAGCTCTGATGTCATCCGGA	Statistics	Fold Change : Downregulated pvalue : p<0.05

Link to the related database

Search all circRNAs with similar ICD codes

Search all circRNAs with similar PMID codes

Link to the reference paper

Citation

Liu, W, Zhang, J, Zou, C, Xie, X, Wang, Y, Wang, B, Zhao, Z, Tu, J, Wang, X, Li, H, Shen, J, Yin, J (2017). Microarray Expression Profile and Functional Analysis of Circular RNAs in Osteosarcoma. Cell. Physiol. Biochem., 43, 3:969-985.

Link to the reference paper

Suggested primer page

hsa_circ_0000140/hsa_circ_002059

Gene	KIAA0907	Organism	Human
Genome Locus	chr1:155891165-155895634:-	Build	hg19
Disease	Gastric cancer	ICD-10	C16.0
DBLink	circBase	PMID	25689795
Experimental Method			
Sample Type	Tissues	Comparison	101 paired gastric cancer tissues and adjacent nontumorous tissues from surgical gastric cancer patients and 36 paired plasma samples from preoperative and postoperative gastric cancer patients
Method for Estimation	Quantitative PCR and Microarrays	PCR Details	Detailed Experimental Procedure
Primers (Predicted)	Suggested Primers	Fold Change : Downregulated pvalue : p<0.05	
Citation			
Li, P, Chen, S, Chen, H, Mo, X, Li, T, Shao, Y, Xiao, B, Guo, J (2015). Using circular RNA as a novel type of biomarker in the screening of gastric cancer. Clin. Chim. Acta, 444:132-6.			

Link to the predicted primers

Locus:			chr1:155891165-155895634							
Product Size	**Left Primers**	**Right Primers**	**Left GC**	**Right GC**	**Left Tm**	**Right Tm**	**Left Position**	**Right Position**	**Left Size**	**Right Size**
233	AGGCTGGTCTCAAACTCCTG	CCTACCTCCACCTCCCAAAG	55	60	59.31	59.088	69	301	20	20
185	CCAGCTGATAGTGGGCAAC	AGCCTGGTCTCGAATTCCTA	57.895	50	58.214	57.839	152	336	19	20
120	CCGTGCCCAGCTGATAGT	ATGAGCCACTATGCCAGCC	61.111	57.895	59.097	59.85	146	265	18	19
148	CCTCGGCCTTCCAAAGTG	GCCAGCCCGTATTCTATATTCC	61.111	50	58.013	58.467	106	253	18	22
226	CGGCCTTCCAAAGTGCTG	CCTGGTCTCGAATTCCTAAGC	61.111	52.381	59.043	58.172	109	334	18	21
170	CTCGTGATCCACCTGCCTC	CCACTATGCCAGCCCGTAT	63.158	57.895	59.857	59.245	91	260	19	19
173	CTGACCTCGTGATCCACCTG	ACTATGCCAGCCCGTATTCT	60	50	59.826	58.575	86	258	20	20
279	GTCTCAAACTCCTGACCTCG	GTCTCACCATGTTTCTCAGCC	55	52.381	57.644	58.92	75	353	20	21
146	GTGGGCAACTCTTTTCTGGG	AAACTGCCTACCTCCACCTC	55	55	59.038	59.015	162	307	20	20
192	TCAAACTCCTGACCTCGTGA	AGTCATGAGCCACTATGCCA	50	50	58.3	58.793	78	269	20	20
233	TTGGTCAGGCTGGTCTCAAA	TCCACCTCCCAAAGTGCTAG	50	55	59.157	59.016	63	295	20	20