

SUPPLEMENTARY TABLES

Supplementary Table 1. The upregulated lncRNA in IVDD based on GSE56081.

Gene symbol	Regulation direction	Fold change	<i>p</i> -value	FDR
C14orf132	up	25.315744	0.0000575	0.002230592
FLJ44054	up	12.046523	0.0000529	0.002158638
TMEM41B	up	10.290109	0.000803	0.009374719
H19	up	9.438205	0.000526	0.007148484
MDM4	up	9.3215885	0.002827955	0.019875953
PMS2L3	up	7.177083	0.00314208	0.021223195
MALAT1	up	6.855616	0.004708168	0.027079232
C10orf75	up	6.6556325	0.000394	0.005983249
SNHG8	up	6.5955076	0.00083	0.009555447
RPL10	up	6.124247	0.00000973	0.001106426
LOC728855	up	6.1202617	0.002670312	0.019144418
MGC23270	up	6.11878	0.00000957	0.001106426
COX11	up	6.0228524	0.000306	0.005141456
RNF126P1	up	5.7088127	0.000487	0.006878821
LOC96610	up	5.559347	0.000549	0.007337372
SBF1P1	up	5.491599	0.00346884	0.022488918
NCRNA00188	up	5.452553	0.00140898	0.012828844
GAS5	up	5.403014	0.000681	0.008418643
HNRPA1L-2	up	5.0491734	0.000142	0.003403639
SCARNA23	up	4.9850054	0.000103	0.002904538
CATSPER2P1	up	4.806248	0.00325512	0.021722205
LOC404266	up	4.666092	0.001056403	0.010741591
RGL2	up	4.5703983	0.000404	0.006064587
LOC645166	up	4.4355288	0.001016234	0.010493009
SNHG6	up	4.274251	0.000386	0.00590595
LOC441601	up	3.9893003	0.0000628	0.002335666
CIRBP	up	3.9523647	0.000481	0.006829181
RPL21P28	up	3.9490988	0.000911	0.010032637
LOC285696	up	3.5922666	0.001126515	0.011189451
IFITM4P	up	3.540142	0.0000692	0.002394151
RPL23AP7	up	3.4901786	0.002118995	0.016462892
GBAP1	up	3.2741895	0.000912	0.010032637
LOC647979	up	3.1333585	0.000582	0.007589122
LOC649395	up	2.7442327	0.0000396	0.001908888

Supplementary Table 5. The potential target mRNAs of miR-221-3p that up-regulated in IVDD.

SLC7A6
ADAM12
EIF1
OTUD4
CAMTA1
TFR2
ZFP36
HNRNPA0
KLHL21
PPFIBP1
MGP
HMBOX1
BSDC1
SLC5A3
SOCS3
KLF9
LFNG
GPM6A
HMGCR
PFKFB2
MAPK1
ATF2
DDX17
PDE4DIP
GAS1
BNIP3L
TOLLIP
KCNMB4
DNAJB14
CYP1B1
ZNF22
MEF2D
SLC25A37
CHSY1
PRDX6
DICER1
MYO1C
GREB1
LSM14A
TIPARP
BCL2L2
LTBP2
TRAPPC10
ATF4
UBE2G2
BRD9

BTBD3
GIT1
KLF8
FOS
CEBPG
SCARB2
HIFX
KLHDC10
CYTH3
MLEC
MEST
CHD5
CCND2
SOX11
SPARC
KCTD12
IGFBP4
LANCL1
