

## 1. The RT-qPCR Raw data of mice kidney

Sample	Gene	Relative mRNA expression	Sample_Group
con-4	Igf1	1.346242327	Control
con-5	Igf1	1.136732555	Control
con-6	Igf1	0.604725884	Control
DKD-10	Igf1	0.250338054	DKD
DKD-12	Igf1	0.38244429	DKD
DKD-13	Igf1	0.342878822	DKD
con-4	Hspa1a	1.935573239	Control
con-5	Hspa1a	0.827491489	Control
con-6	Hspa1a	0.535015516	Control
DKD-10	Hspa1a	0.67886322	DKD
DKD-12	Hspa1a	0.505554316	DKD
DKD-13	Hspa1a	0.520592972	DKD
CON4	Fos	0.398201277	Control
CON5	Fos	1.56037763	Control
CON6	Fos	1.451587879	Control
DKD10	Fos	0.347063209	DKD
DKD12	Fos	0.367217445	DKD
DKD13	Fos	0.783321464	DKD
CON4	Pck1	2.734622384	Control
CON5	Pck1	1.15937589	Control
CON6	Pck1	0.315412115	Control
DKD10	Pck1	1.124233334	DKD
DKD12	Pck1	0.677917811	DKD
DKD13	Pck1	1.516208	DKD

## 2. Statistical analysis (Kolmogorov-Smirnov test, Homogeneity test of variance, T test and Mann-Whitney test) of the RT-qPCR data

### Kolmogorov-Smirnov test

Gene	sig.
Fos	0.178391461
Hspa1a	0.03095856
Igf1	.200*
Pck1	.200*

\*. This is the lower limit of true significance.

### Homogeneity test of variance

Gene	sig.
Fos	0.089364821
Hspa1a	0.042004514
Igf1	0.069407758
Pck1	0.165684596

**T test**

Gene	Group	Mean value	T	Sig. (2-tailed)
Igfl	Control	1.029233589	3.141	0.035
	DKD	0.325220389		
Fos	Control	1.136722262	1.606	0.184
	DKD	0.499200706		
Pck1	Control	1.403136796	0.396	0.712
	DKD	1.106119715		

**Mann-Whitney test**

Gene	Group	Mean Rank	Z	Asymp. Sig. (2-tailed)	Exact sig. [2*(1-tailed sig.)]
Hspa1a	Control	4.666666667	-1.52753	0.126630458	.200 <sup>b</sup>
	DKD	2.333333333			

*b. No corrected for ties.*