

$$\left(\begin{array}{c} \text{ } \end{array} \right)$$

//

//

GIRK₂

*

 $GIRK_2$

Wistar

RT-PCR

GDX+Testosterone Sham GDX

*GIRK*₂

()

*GIRK*₂

()

*GIRK*₂

GIRK₂ mRNA

()

*GIRK*₂

RT-PCR

***GIRK₂* :**

.()

.()

.(-)

.(-)

.()

GIRK₂

.()

GIRK₂

.()

.()

) Wistar

) (-

.()

(-

% ± °C

.(-)

(GDX) (intact)

. (GDX+T)

+

Sham

GIRK

G

.()

(mg/kg)

GIRK

GIRK₁₋₄GIRK₂

.(-)

GIRK₂

Mitrovic

Sham

GIRK₂

.()

/

Sham

PCR annealing

() β -actin GIRK₂

GIRK₂ ()

Primer3 β -actin

<http://www.genome.wi.mit.edu>

NCBI BLAST

<http://www.ncbi.nlm.nih.gov> mg/kg

PCR Sham

β -actin GIRK₂ ()

(VBC biotech, Austria)

GenBank

RT-PCR Sham

GIRK₂ ()

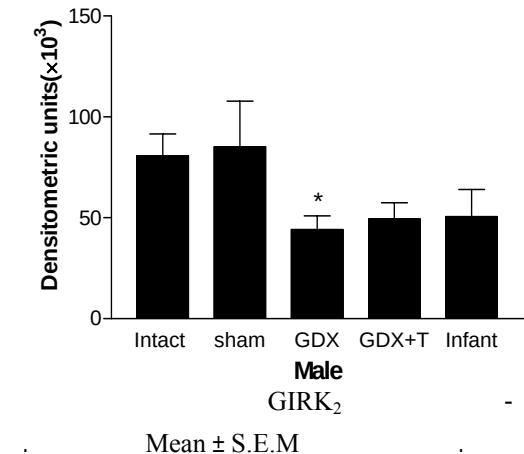
RNA μ g

RT μ l CO₂

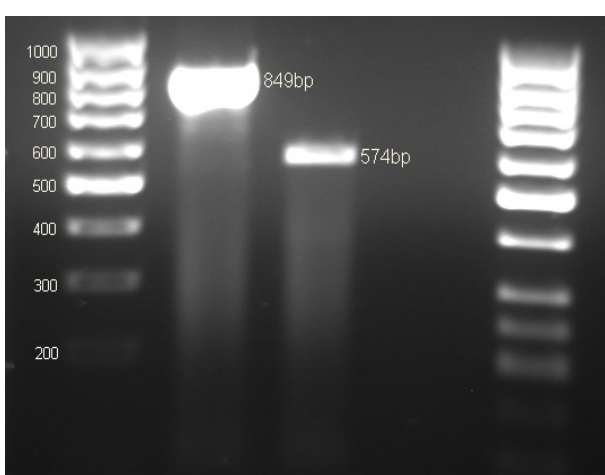
RT 1X : cDNA

RT-PCR					
Gene	Sequence	position	Anneal temperature(°C)	PCR product size (bp)	Gene Bank accession nos.
GIRK ₂	F 5'-tgaggaaactatgcctgatgt-3' R 5'-ttcttcgggtctctctt-3'	862-881 1435-1416	53	574	EF156275
β -Actin	F 5'-gaagtacccattgaacacg-3' R 5'-gacagtgaggccagataga-3'	282-301 1130-1111	55	849	EF156276

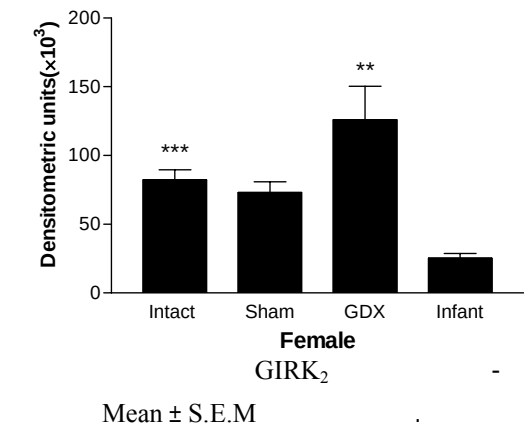
			(50mM DTT, 20mM MgCl ₂ , 250mM KCl, 250mM Tris HCl pH 8.3 @ 25°C)
	cDNA		M-Mulv 20iu/μl (Fermentas) μl
			Rnasin 40iu/ μl (Fermentas) μl
	PCR	μl	() dNTP 25mM / μl
% /	loading	/ μg/μl / μl	DEPC Water / μl
DNA ladder		RT . μl	Oligo dT (Fermentas)
	bp		°C
		° C	M-Mulv
UV	Gel documentation acquisition	PCR	Rat cDNA PCR
		GIRK ₂	
			β-actin
Lab works (UVP,UK)		PCR	
	GIRK ₂		μl cDNA
		μl dNTP 25mM :	μl
		() / μl Taq 5iu/μl / μl MgCl ₂	
t-test		μl 10μM μl 10X PCR buffer	
	P< /		μl
		Touchgene	PCR
		Gradient thermocycler (Techne, UK)	
			:
	PCR	()	C°.
GIRK ₂	bp :	annealing	C° :
	() β-actin		C°
GIRK ₂		()	C°.
			PCR
	GIRK ₂ mRNA		cDNA
(Intact)		cDNA	PCR
			PCR



Mean $\pm$ S.E.M
P < / *
:GDX

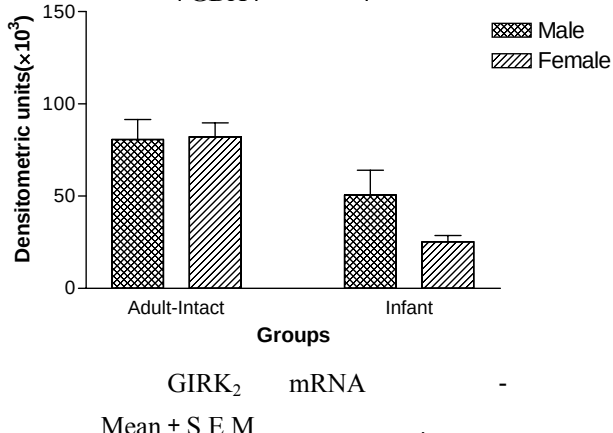


β - GSK-3 β PCR
: : 100 bp DNA ladder :
: : β -actin bp :
: : GSK-3 β bp :
cDNA PCR :
mg/kg

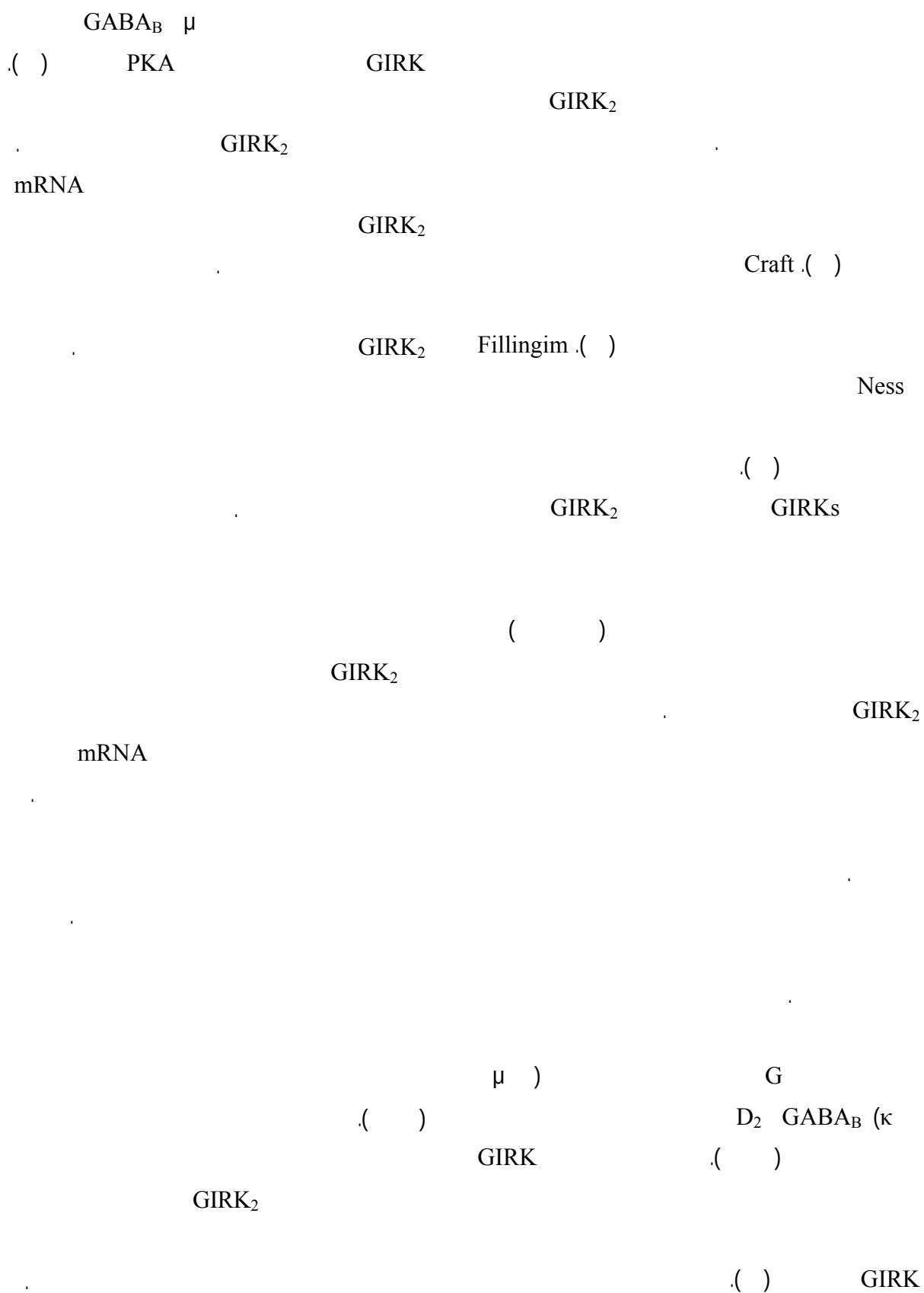


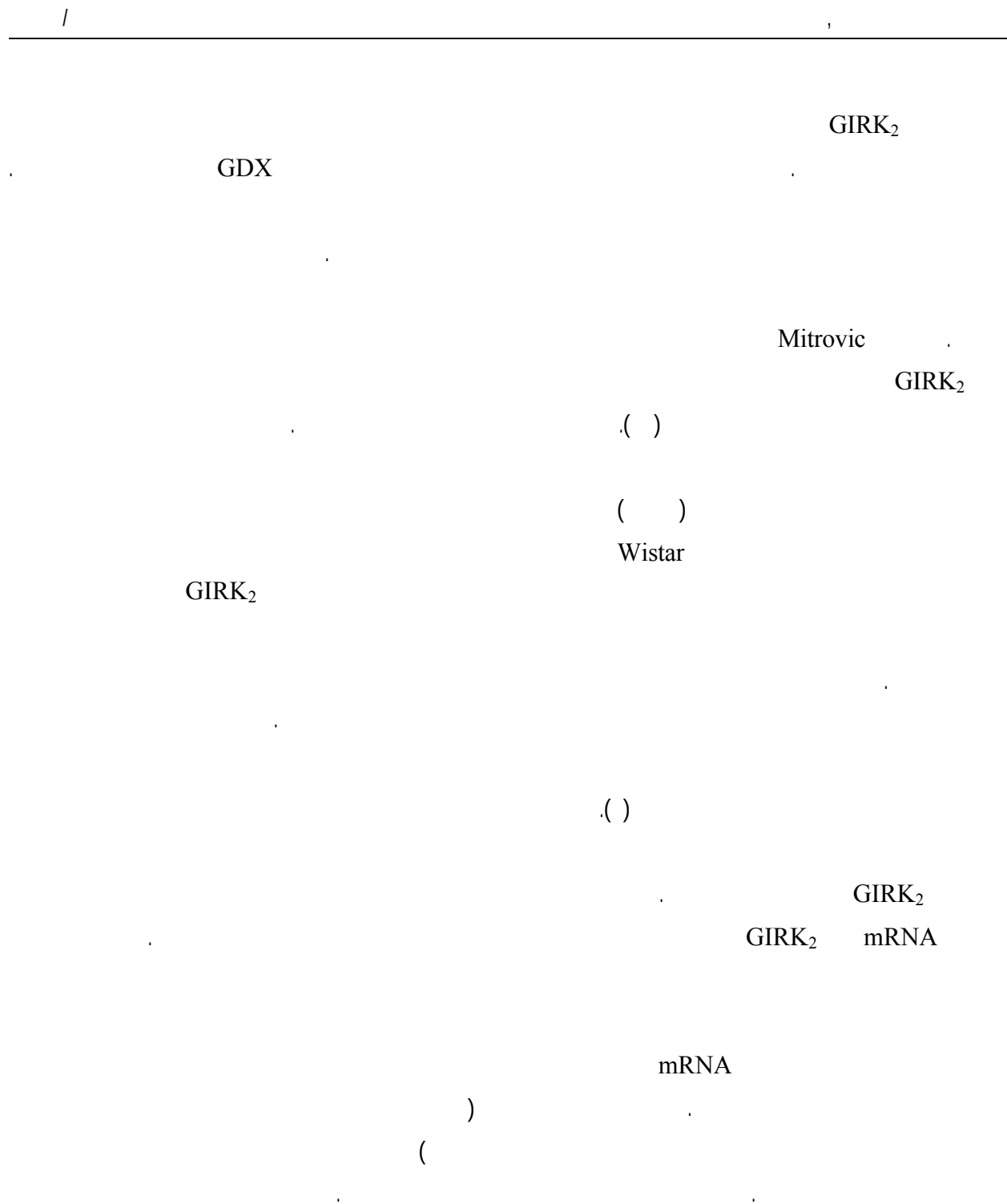
Mean $\pm$ S.E.M
P < / ***
P
: GDX :

mRNA
mg/kg
GSK-3 β
()



GSK-3 β mRNA
(P < /)
mRNA
(P < /)
GSK-3 β mRNA
()
()





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