

()

β 3-Adrenoceptor Trp64Arg

(ADRB3) β 3-Adrenoceptor : _____

ADRB3 Trp64Arg

: _____

()

BMI<20, 20≤BMI<25, 25≤BMI<30, BMI≥30 :

HDL-C

(BSTN1)

RFLP

/ ± / kg/m :TT)

PCR

/ A : _____

(p: / ± / kg/m :TA/A

β 3-Adenoceptor Trp64Arg

: _____

β 3-Adenoceptor :

/ / : / / : / / :

()

BMI

BMI

:

BMI

BMI (

BMI (

BMI (

BMI

ADR β 3

SPSS

EDTA

Trp64Arg

(8p12-q11.2) ADR β 3

HDL-C ()

LDL-C

mg/dL

mg/dL

% /

% / /

DNA

(Tris-HCl 10mmol/L, MgCl₂ Lysis

PBS 5mmol/L, Triton X %1 pH 7.6)

DNA

RBC

DNA

Salting Out

DNA

PCR

ADRB3

bp

EDTA

,dNTPs : μ L

PCR

Taq 10X PCR buffer, MgCl₂(1.5mM) mix(0.2mM)

: DNA Polymerase (1U)

5'- 5'CGCCCAATACCGCCAACAC -3

BMI)

) CCACCAGGAGTCCCATCACC -3'

(

DNA ng (

β 3 Adrenoceptor Trp64Arg

(n=)	(n=)	()
/ ± *	± /	()
± †	/ ± /	()
± *	±	()
±	±	()
± †	±	()
/ ± / †	/ ± /	
± †	±	()
±	±	()
± *	±	()
± *	±	()
± †	±	() HDL-C
±	±	() LDL-C

p< / † p< / *

TBE %) RFLP
 ()
 bp Trp64 (Hybaid)
 bp Arg64
 bp i (:
 (() °C
 SPSS : °C ii (°C
 ±) °C iii ()
 (()
 PCR () °C
 ANOVA t
 post-hoc %
 BMI
) TT () AA/TA
 / (U PCR μL
 (Roche) MvaI
 °C

()

i- Denaturation
 ii- Annealing
 iii-Extention

/

/ Trp

LDL-C HDL-C

LDL-C

HDL-C

BMI

TT
BMILDL-C HDL-C
AA/TA**β3-Adrenoceptor****BMI**

≤ BMI (n=)	≤ BMI< (n=)	≤ BMI< (n=)	BMI< (n=)	
(/)	(/)	()	(/)	β3 Adrenoceptor
(/)	(/)	(/)	()	** (%)AA/TA
±	±	±	±	** (%)TT
±	±	± †	± ‡	()
±	±	± †	± *	()
±	±	±	± ‡	()
±	±	± †	± *	()
±	±	± †	± *	()
±	±	±	± Δ	() HDL-C
±	±	± ‡	± *	() LDL-C
ANOVA				**
BMI				
< ≤ BMI<	(p< /)*		(p< /)	
≤ ≤ BMI<	(p< /)‡ ≤ BMI	≤ BMI<	(p< /)† ≤ BMI	≤ BMI
	≤ BMI<	(p< /)‡ ≤ BMI	≤ BMI	(p< /)Δ BMI

		()	
±	±		()
±	±	()	
±	±	()	
± *	±		()
±	±		()
/ ± / *	/ ± /		
/ ± / *	± /	()	
± *	±	()	
± *	±	()	
± *	±	()	
±	±	()) HDL-C
±	±	()) LDL-C

p < / *

(<%)

(n=)

Trp64Arg

≤ BMI < ≤ BMI < BMI <)

(≤ BMI

Trp64Arg

()

(± /)

()

(/ ± /)

Trp64Arg

Trp64Arg

:

:

A

(± / / ± /)

References

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