



Genetic associations of the *INSIG2* rs7566605 polymorphism with obesity-related metabolic traits in Malaysian Malays

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Genet. Mol. Res. 13 (3): 4904-4910 (2014)

Received April 8, 2013

Accepted November 20, 2013

Published July 4, 2014

DOI <http://dx.doi.org/10.4238/2014.July.4.4>

ABSTRACT. A genome-wide association study showed that the tagging single nucleotide polymorphism (SNP) rs7566605 in the insulin-induced gene 2 (*INSIG2*) was associated with obesity. Attempts to replicate this result in different populations have produced inconsistent findings. We aimed to study the association between the rs7566605 SNP with obesity and other metabolic parameters in Malaysian Malays. Anthropometric and obesity-related metabolic parameters and DNA samples were collected. We genotyped the rs7566605 polymorphism in 672 subjects using real-time polymerase chain reaction. No significant associations were found between the rs7566605 tagging SNP of *INSIG2* with obesity or other metabolic parameters in the Malaysian Malay population. The *INSIG2* rs7566605 SNP may not play a role in the development

of obesity-related metabolic traits in Malaysian Malays.

Key words: Insulin-induced gene 2; Single nucleotide polymorphism; Obesity