

## **Analysis of OPG Gene Polymorphism T245G (rs3134069) in Slovak Postmenopausal Women**

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**Abstract :** Osteoporosis is a common multifactorial disease with a strong genetic component characterized by reduced bone mass and increased risk of fractures. Genetic factors play an important role in the pathogenesis of osteoporosis. The aim of our study was to identify the genotype and allele distribution of T245G polymorphism in OPG gene in Slovak postmenopausal women. A total of 200 unrelated Slovak postmenopausal women with diagnosed osteoporosis and 200 normal controls were genotyped for T245G (rs3134069) polymorphism of OPG gene. Genotyping was performed using the Custom Taqman® SNP Genotyping assays. Genotypes and alleles frequencies showed no significant differences ( $p=0.5551$ ;  $p=0.6022$ ). The results of the present study confirm the importance of T245G polymorphism in OPG gene in the pathogenesis of osteoporosis.

**Keywords :** OPG gene, T245G polymorphism, osteoporosis, T245G polymorphism, real-time PCR

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