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INVESTIGATION AND IDENTIFICATION *SALMO TRUTTA CASPIUS* BY THE GROWTH HORMONE TYPE 1 (GH1) GENE ANALOGUE

Abolhasan Rezaei¹, Sheyda Akhshabi², Hamid Reza Jamalzadeh³

¹ Department of Genetics-School of basic science, Islamic Azad University,
Tonekabon Branch, Iran, a.rezaei@tonekaboniau.ac.ir

² Young Researchers Club, Tonekabon Branch, Islamic Azad University, Tonekabon, Iran,

³ Department of Fisheries Sciences and Marine Biology-School of basic science,
Islamic Azad University Tonekabon Branch, Iran.

Abstract. The genetic growth hormone (GH) relationships between several *salmon* and *Salmo trutta caspius* were analyzed by the sequencing technique. The GH gene is concluded by duplicated, isophorms determined as GH1 and GH2. In *salmons* GH gene 1 has 5 exons and 6 introns. At this study we have isolated and characterized GH1 gene containing 3.1 kbp. In related to, have designed one pair of primers from full length of GH gene was reported in the NCBI Network system (Accession nos. AY614010 [IRYNNANEN and PRIMMER et al., 2004] and X61938 [MALE et al., 1992]), DNA genomic extracted by absorption on the glass (kit) method, we performed PCR polymorphism and the sequences of the gene were also identified, annotated and compared to each other in their coding regions and function them. We show that regions have compared between other populations of *salmons* by NCBI Network program. These results also were shown that high homology between Growth hormone gene in *salmo trutta caspius* and other *salmons* was recorded (approximately 97%).

Keywords: *Salmo trutta caspius*, *Salmo salar*, Growth hormone gene type 1, DNA