

عنوان مقاله:

Study of Local Black Iraqi Goats Genotypes for the Cytb Gene

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خلاصه مقاله:

Goats are the earliest domesticated ruminants. The local goat, *Capra hircus*, is considered one of the most important animals globally to provide good livestock production under harsh environmental conditions. This study aimed to detect the genetic structures of the local Iraqi goats bred in the central and southern regions of the country and investigate the possibility of benefiting from their genetic structures to construct improvement programs for increasing the productivity of these animals. To this end, blood samples were taken from 15 domestic black goats. A total of 10 ml of each animal's blood was placed in plastic containers of 10 ml. The DNA was extracted and sent to the laboratories of Juan Ju University, People's Republic of China, to analyze the sequences of the nitrogenous bases of the Cytochrome b (Cytb) gene. The results showed the presence of a genetic morphology for a segment of 670 base pairs for all the studied samples, and 15 sequences of this strain were recorded in the gene bank under the following accession numbers (LC496353.1:1-LC496367.1:1). The sequences of the nitrogenous bases of this segment of the gene, which were registered in the gene bank of some international goat breeds, were used for comparison with the sequences of black Iraqi goats to analyze the phylogenetic tree, calculate the genetic distance, study haplotypes, and calculate neutrality. The results showed the presence of one mutation in the studied segment of the Cytb gene, with a size of 670 bp. The mutation in base 46 of the studied gene converted from the purine group to the pyrimidine group (the shift from the nitrogen leaders A

کلمات کلیدی:

local black, Iraqi goats genotypes, Cytb gene

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