

Z607 Allelic Variants of Human Calcitonin in the Korean Population

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칼슘 조절에 관여하는 calcitonin 호르몬은 갑상선에서 분비되며, 칼슘대사의 이상 증세인 골다공증, 상피소체기능항진증 및 상피소체기능감퇴증과 연관성 있는 것으로 알려져 있다. 본 연구에서는 정상적인 한국인 300명을 대상으로 DNA를 추출하고 PCR을 이용하여 calcitonin 유전자내 CA염기서열의 반복횟수에 대한 유전적 다형현상이 있음을 보고하며, CA염기 반복횟수에 따른 대립인자의 빈도를 산출하고 타 민족집단의 결과와 비교한다.

Z608 Isolation and Characterization of New Family Genes of DNA Damage in Fission Yeast

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The SNF2 family includes proteins from a variety of species with roles in cellular processes such as transcriptional regulation, recombination and various types of DNA repair. Several proteins with unknown function are also included in this family. Here, we report the cloning and characterization of *hrp2+* gene (helicase related gene from *S. pombe*) which was isolated by PCR amplification using the conserved domain of SNF2 motifs within the *ERCC6* gene which encodes a protein involved in DNA excision repair. The *hrp2+* gene was isolated by screening with yeast *S. pombe* genomic library. The isolated cloned contained 6.5 kb insert DNA. Southern blot analysis confirmed that *S. pombe* chromosome contains the same DNA as *hrp2+* gene. The 4.7 kb transcript of mRNA was identified by Northern blot. To examine the transcriptional regulation of *hrp2+* gene, DNA damaging agents were treated.