Û	Ţ.	Û			
5'GAATTC/	AGTGACCTTACTTGAATTCAAGGT0	CAGAATTC	3'	Person	1
Û		Ŋ.			
5' GAATTCA	GTGACCTTACTTC AATTCAAGGTC	ΔGΔΔΤΤΟ	3,	Person 2	7

In Person 2 the DNA sequence has been changed in just one place, from a G to a C. If we are cutting this DNA with the restriction enzyme EcoR 1, the enzyme will look for the sequence GAATTC and cut the DNA between the G and A (arrows). If it doesn't find this exact sequence it will not cut the DNA. So, in the case of person 2 there will be one less cut site than in person 1. The gel for this situation will look like this:

Person 1	Person 2	
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