



## Arbeitsblatt 2a: Molekulare Ursachen der Chorea Huntington

### **Sequenz Nr.1: Wildtyp-Sequenz des Huntingtin-Gens (DNA in 5'-3'-Richtung)**

(Die Zahlen am Beginn der jeweiligen Zeile markieren die Basenpaarpositionen)

```

1   gctgccggga cgggtccaag atggacggcc gctcaggttc tgcttttacc tgcggcccag
61  agccccattc attgccccgg tgctgagcgg cgccgcgagt cggcccgagg cctccgggga
121 ctgccgtgcc gggcgggaga ccgccatggc gaccctggaa aagctgatga aggccttcga
181 gtccctcaag tccttccagc agcagcagca gcagcagcag cagcagcagc agcagcagca
241 gcagcagcag cagcagcagc aacagccgcc accgccgccg ccgccgccgc cgctcctca
301 gcttcctcag ccgccgccgc aggcacagcc gctgctgect cagccgcagc cgccccgcc
361 gccgcccccg ccgccaccgc gcccggtgt ggctgaggag ccgctgcacc gaccaaagaa
  
```

### **Sequenz Nr.2: Mutierte Sequenz des Huntingtin-Gens (DNA in 5'-3'-Richtung)**

```

1   gctgccggga cgggtccaag atggacggcc gctcaggttc tgcttttacc tgcggcccag
61  agccccattc attgccccgg tgctgagcgg cgccgcgagt cggcccgagg cctccgggga
121 ctgccgtgcc gggcgggaga ccgccatggc gaccctggaa aagctgatga aggccttcga
181 gtccctcaag tccttccagc agcagcagca gcagcagcag cagcagcagc agcagcagca
241 gcagcagcag cagcagcagc agcagcagca gcagcagcag cagcagcagc agcagcagca
301 gcagcagcag cagcagcagc agcagcagca gcagcagcag cagcagcagc aacagccgcc
361 accgccgccg ccgccaccgc cgctcctca gcttcctcag ccgccgccgc aggcacagcc
  
```

Entnommen aus dem National Center for Biotechnology Information  
<http://www.ncbi.nlm.nih.gov/> (public domain)  
 Homo sapiens huntingtin (HTT), mRNA (NCBI Reference Sequence: NM\_002111.6)