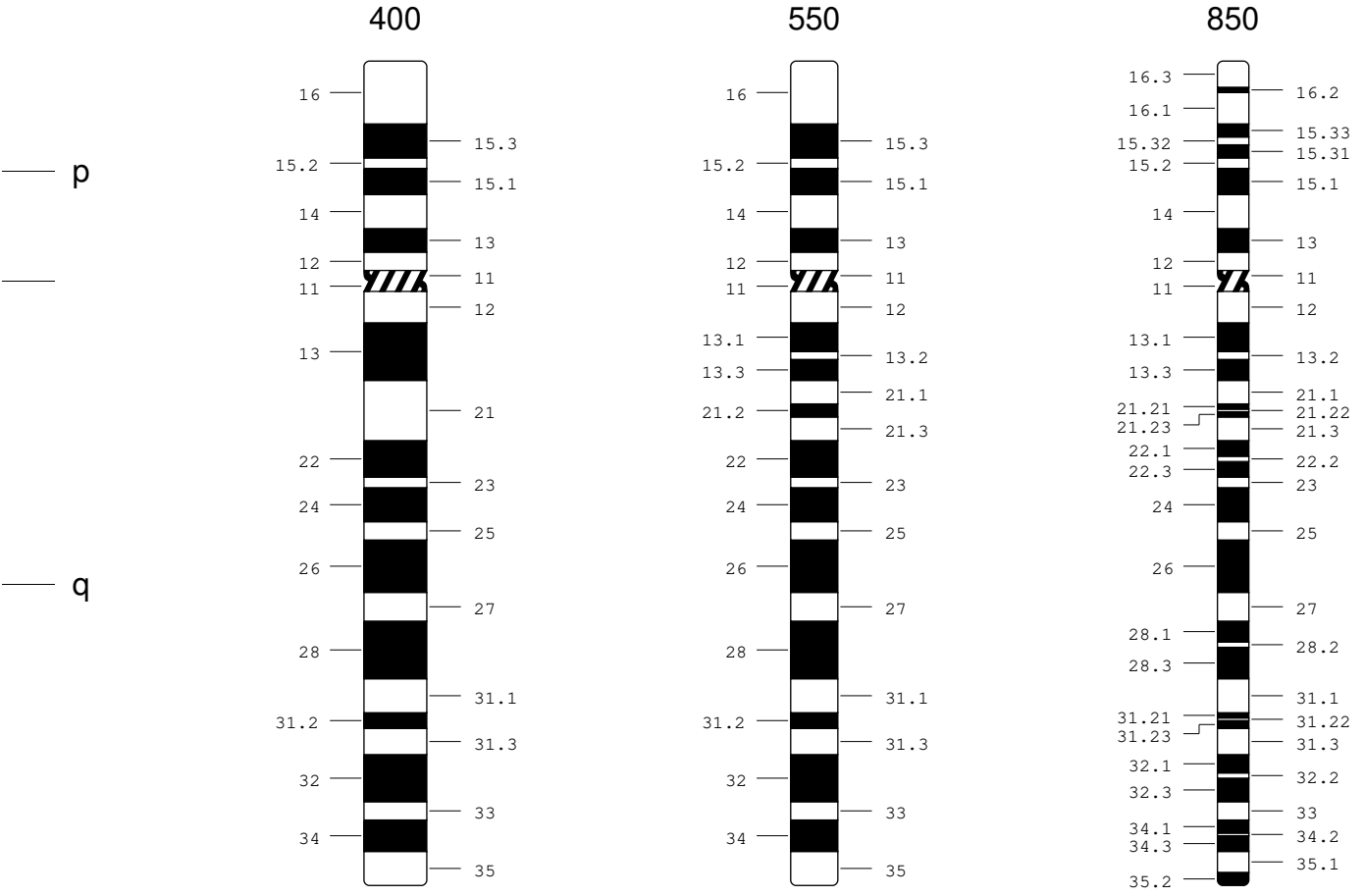CHROMOSOME 4