

# Free epub 14 2 human chromosomes reading guide answer key 129706 (PDF)

chromosome 2 is the second largest human chromosome spanning more than 242 million base pairs and representing almost eight percent of the total dna in human cells chromosome 2 contains the *hoxd* homeobox gene cluster chromosome 2 is the second largest human chromosome spanning about 243 million building blocks of dna base pairs and representing almost 8 percent of the total dna in cells learn about health implications of genetic changes humans have 23 pairs of chromosomes for a total of 46 chromosomes in fact each species of plants and animals has a set number of chromosomes a fruit fly for example has four pairs of chromosomes while a rice plant has 12 and a dog 39 chromosome 2 is the second largest of the 46 chromosomes found in human cells chromosome 2 spans 243 million base pairs and makes up around 8 of the total dna present within our cells how many chromosomes do people have in humans each cell normally contains 23 pairs of chromosomes for a total of 46 twenty two of these pairs called autosomes look the same in both males and females the 23rd pair the sex chromosomes differ between males and females the 46 chromosomes of a human cell are organized into 23 pairs and the two members of each pair are said to be homologues of one another with the slight exception of the x and y chromosomes see below it turns out that chromosome 2 which is unique to the human lineage of evolution emerged as a result of the head to head fusion of two ancestral chromosomes that remain separate in other chromosomes in humans can be divided into two types autosomes body chromosome s and allosome sex chromosome s certain genetic traits are linked to a person s sex and are passed on through the sex chromosomes it turns out that chromosome 2 which is unique to the human lineage of evolution emerged as a result of the head to head fusion of two ancestral chromosomes that remain separate in other for example humans are diploid  $2n$  and have 46 chromosomes in their normal body cells these 46 chromosomes are organized into 23 pairs 22 pairs of autosomes and 1 pair of sex chromosomes the sex cells of a human are haploid  $n$  containing only one homologous chromosome from each pair two of the chromosomes the x and the y chromosome are called sex chromosomes and in almost all people females have 2 x chromosomes males have 1 x and 1 y chromosome at conception the mother gives an x chromosome to the child and the father may contribute an x or a y the chromosome from the father determines if the baby is female or male the human genome is a complete set of nucleic acid sequences for humans encoded as dna within the 23 chromosome pairs in cell nuclei and in a small dna molecule found within individual mitochondria these are usually treated separately as the nuclear genome and the mitochondrial genome

1 key points every species has its own specific number of chromosomes for example humans have 46 chromosomes in a typical body cell many species have chromosomes that come in matched pairs for example the 46 chromosomes in a human cell can be organized into 23 pairs these paired chromosomes are called homologous chromosomes the chromosome image below is the online version of chromosome 2 depicted on the human genome landmarks poster click here for printable image legend magenta and green these regions reflect the unique patterns of light and dark bands seen on human chromosomes that have been stained to allow viewing through a light microscope red prev next chromosome map our genetic information is stored in 23 pairs of chromosomes that vary widely in size and shape chromosome 1 is the largest and is over three times bigger than chromosome 22 the 23rd pair of chromosomes are two special chromosomes x and y that determine our sex chromosome 2 is noteworthy for being the second largest human chromosome trailing only chromosome 1 in size it is also home to the gene with the longest known protein coding sequence a 280 000 base pair gene that codes for a muscle protein called titin which is 33 000 amino acids long introduction in the past 6 15 million years as our species began to diverge from the lineages of our closest living relatives chimpanzees and other great apes our ancestors acquired the genetic medical encyclopedia chromosomes are structures found in the center nucleus of cells that carry long pieces of dna dna is the material that holds genes it is the building block of the human body chromosomes also contain proteins that help dna exist in the proper form information chromosomes come in pairs among sexually reproducing organisms the number of chromosomes in the body somatic cells is diploid  $2n$  a pair of each chromosome twice the haploid  $1n$  number found in the sex cells or gametes chromosome 2 is of particular interest in terms of human evolution as it is the product of head to head fusion of two ancestral chromosomes after the separation of the human and chimpanzee

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