

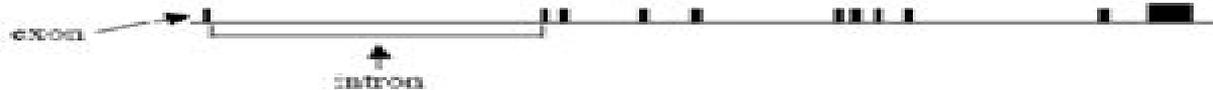
Alternative Splicing Activity



Gene Structure

Eukaryotic genes are composed of interspersed exons and introns.

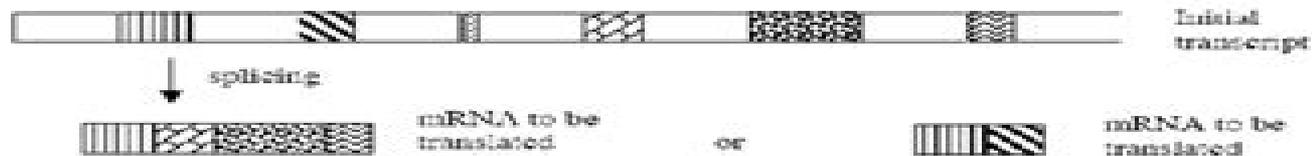
- Exons (**expressed sequences**) contain the coding regions of the protein.
- Introns (**interspersed sequences**) are removed after transcription.



Most genes have 7 or 8 exons, with an average length of 145 base pairs (bp). Introns have an average length of 3365 bp.

Splicing

Following transcription, introns are removed from the RNA transcript by a process called splicing. Splicing results in a joining of all the exons that make up the coding region of a protein. In alternative splicing, the same gene is processed in two or more ways. When the gene is spliced, different exons may be included or excluded from the final transcript. For example, the initial transcript shown below could be spliced to produce several different mRNA products, two of which are shown below.



This same initial transcript could be spliced in many additional ways not shown above.

Scientists used to think that "one gene, one protein". Now we see that many proteins can be made from one gene. Humans have only 20,000 - 25,000 genes. Earlier predictions of gene number based on the number of proteins humans were estimated to produce was 100,000. Vertebrates have an average of 3.2 different final transcripts per gene. About 59% of our genes are spliced into more than one different mRNA.

In this activity you will use colored pens or pencils to draw the mRNA before and after it has been spliced. Similar to the diagram shown above, you will use empty boxes to represent introns and colored boxes to represent exons.

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VM Jensen

A decorative graphic element consisting of a light blue horizontal bar with a rounded right end, partially overlapping a red circular gradient.

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