

The diagram illustrates the structure of a protein-coding gene and its transcript. The top section, labeled "Coding", shows a gene with exons (orange) and introns (purple) that is transcribed into a pre-mRNA (orange and purple) and then spliced into a mature mRNA (black). The bottom section, labeled "Non-coding", shows a gene with exons (orange) and introns (purple) that is transcribed into a pre-mRNA (orange and purple) and then spliced into a mature mRNA (purple).

