

The diagram illustrates the evolution of a protein-coding gene. The top section, labeled 'Coding', shows a sequence of 12 genes. The first two are non-coding (black). The third has a blue exon. The fourth has a blue exon and a green intron. The fifth has a green exon. The sixth has a green exon and a green intron. The seventh has a green exon and a blue intron. The eighth has a blue exon. The ninth has a blue exon and a blue intron. The tenth has a blue exon and a black intron. The eleventh has a black exon. The twelfth has a black exon and a black intron. The bottom section, labeled 'Non-coding', shows a single gene with a black exon and a black intron. Arrows indicate the evolutionary path from left to right.

