

The diagram illustrates the structure of a protein-coding gene. It is divided into two main horizontal sections: 'Coding' and 'Non-coding'.

**Coding Region:** This section is characterized by a series of blue vertical bars representing exons, connected by black horizontal lines representing introns. The sequence starts with a black vertical bar (5' cap) on the left, followed by a series of blue bars and lines. The sequence ends with a black vertical bar (3' poly-A tail) on the right. The label 'Coding' is positioned to the right of this section.

**Non-coding Region:** This section is located below the coding region. It consists of a single blue vertical bar representing the non-coding RNA sequence, followed by a black vertical bar representing the 3' end. The label 'Non-coding' is positioned to the right of this section.

MRP-S27



A\_RO\_D200

C\_RO\_D45

