

Class name: Nucleotide	Superclass:	Subclasses:
Responsibilities	Collaborations	

Class name: DNA	Superclass: Sequence	Subclasses:
Responsibilities	Collaborations	
Provides frequency for its nucleotide content	Nucleotide	
Transcribes a mRNA sequence	Nucleotide, mRNA	

Class name: mRNA	Superclass: Sequence	Subclasses:
Responsibilities	Collaborations	
Provides frequency for its nucleotide content	Nucleotide	
Creates the complementary string	Nucleotide	
Translates an aminoacid sequence	Nucleotide, AminoAcidChain	

Class name: AminoAcid	Superclass:	Subclasses:
Responsibilities	Collaborations	

Class name: AminoAcidChain	Superclass: Sequence	Subclasse S: Protein, Oligopeptide
Responsibilities	Collaborations	
Provides frequency for its aminoacids content	AminoAcid	
Identify if the aminoacid chains are proteins or oligopeptides	AminoAcid, Protein, Oligopeptide	

Class name: Protein	Superclass: AminoAcidChain	Subclasses:
Responsibilities	Collaborations	

Class name: Oligopeptide	Superclass: AminoAcidChain	Subclasses:
Responsibilities	Collaborations	