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CRISPR Genome Editing
ComponentDefinition
      DNA-Based CRISPR Target Site (miRNA Target Site, Blunt End Restriction Enzyme Cleavage Junction)
Interaction
      CRISPR Cleavage (Cleavage)
           Participants
                 gRNA Binding Site (Modifier)
                 Cas9 Cleavage Site (Modifier)
                 CRISPR Complex (Enzymatic Catalyst)
                                                                        gRNA
                                                                 pU6
                                                                              Termin...
ModuleDefinitions
                                                                 10bp
                                                                        10bp
                                                                               10bp
                                                                                                                                      DNA 1
      gRNA Expression
                                                               U6 gRNA expression device (30bp)
           ComponentDefinitions
                 DNA-Based U6 gRNA Expression Device (Gene)
                 RNA-Based gRNA (sgRNA) as Output
                                                                                                       Cas9
                                                                                                              *gRNA
                                                                                                              10bp
                                                                                                       10bp
           Interaction
                 gRNA Production (Genetic Production)
                                                                                                      *CRISPR complex (20...
                       Participants
                                                                BBa 17...
                                                                              Termin...
                            gRNA as Product
                                                                        Cas9
                                                                 23bp
                                                                        10bp
                                                                               10bp
      Cas9 Expression
                                                                T7 Cas9 expression desvice (43bp)
           ComponentDefinitions
                 DNA-Based
                                   T7 Cas9 Expression Device (Gene)
                                   Cas9 (Endonuclease) as Output
                 Protein-Based
           Interaction
                 Cas9 Production (Genetic Production)
                       Participants
                            Cas9 as Product
      CRISPR Complex Formation
           ComponentDefinitions
                 RNA-Based
                                   gRNA (sgRNA) as Input
                                   Cas9 (Endonuclease) as Input
                 Protein-Based
                                   CRISPR Complex (Endonuclease) as Output
                 Complex-Based
                                        ComponentDefinitions
                                              gRNA
                                              Cas9
           Interaction
                 CRISPR Complex Formation (Non-Covalent Binding)
                       Participants
                            gRNA as Reactant
                            Cas9 as Reactant
```

CRISPR Complex as Product