

Protein Parts in SBOL

Suggested Extention of the core model

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Preview / Summary

```

class DnaComponent(Component):
    """
    Description of a stretch of DNA.
    """
    #: optional sequence
    sequence = models.TextField( help_text='nucleotide sequence',
                                blank=True, null=True )

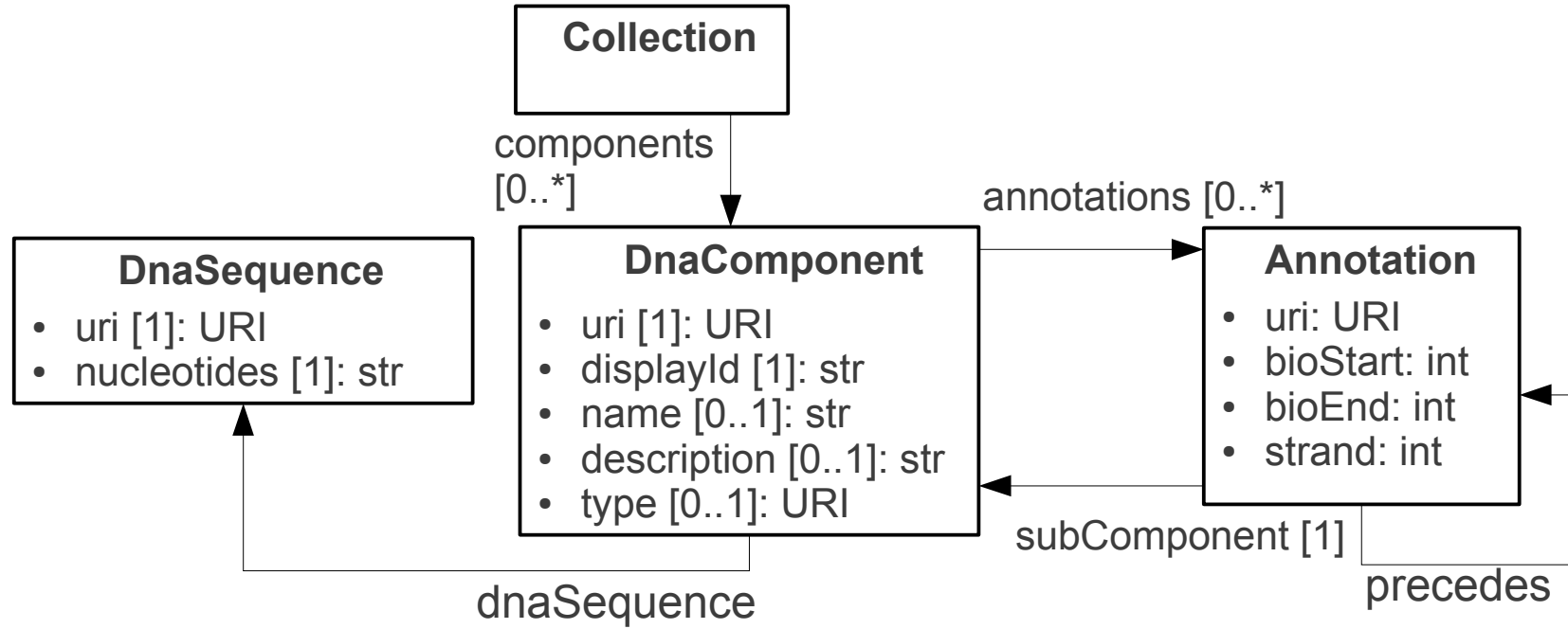
    translatesTo = models.ForeignKey( 'ProteinComponent',
                                      blank=True, null=True,
                                      related_name='encodedBy',
                                      help_text='Protein part this sequence translates to' )

    optimizedFor = models.ForeignKey( 'Chassis',
                                      blank=True, null=True )

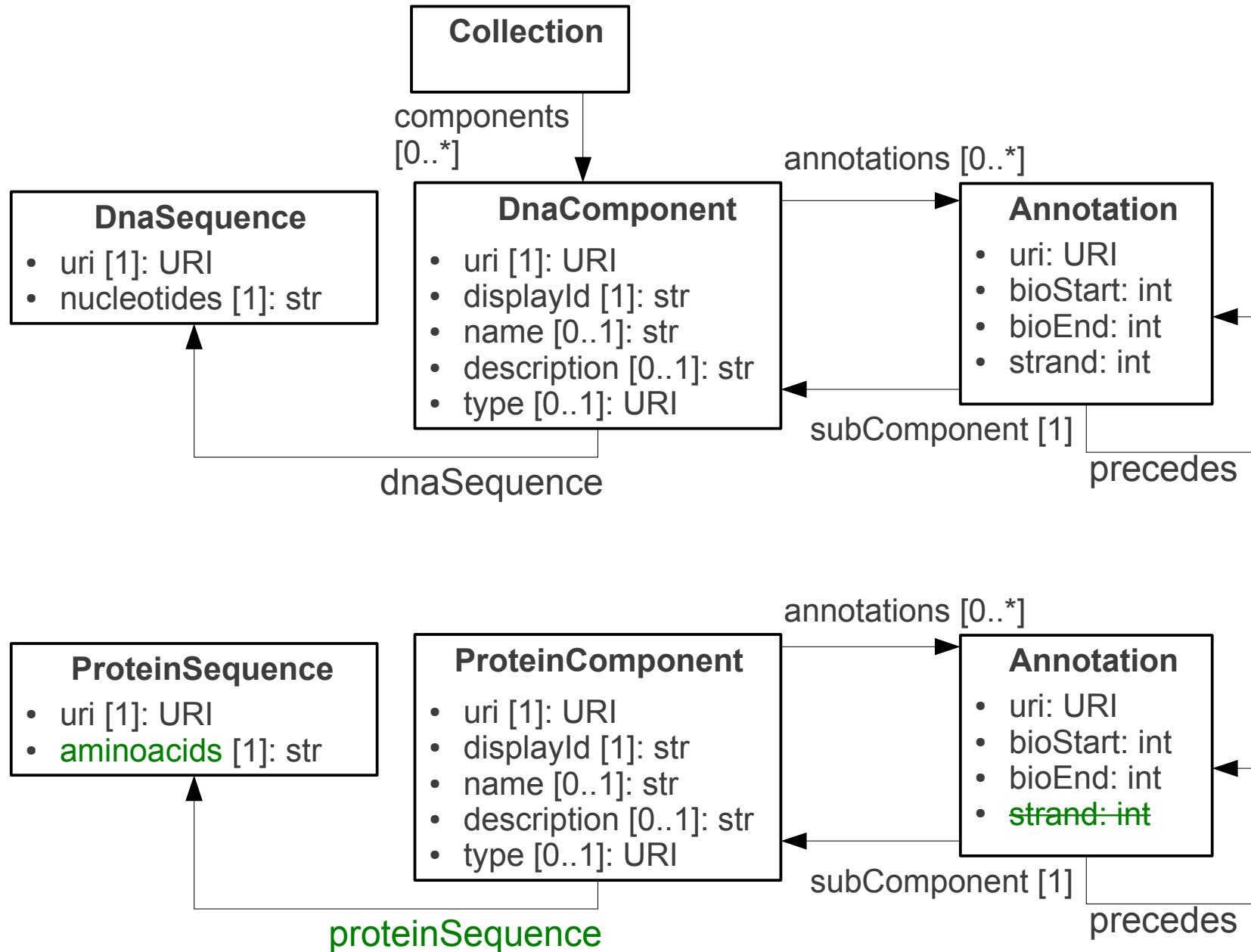
    class Meta(Component.Meta):
        pass

```

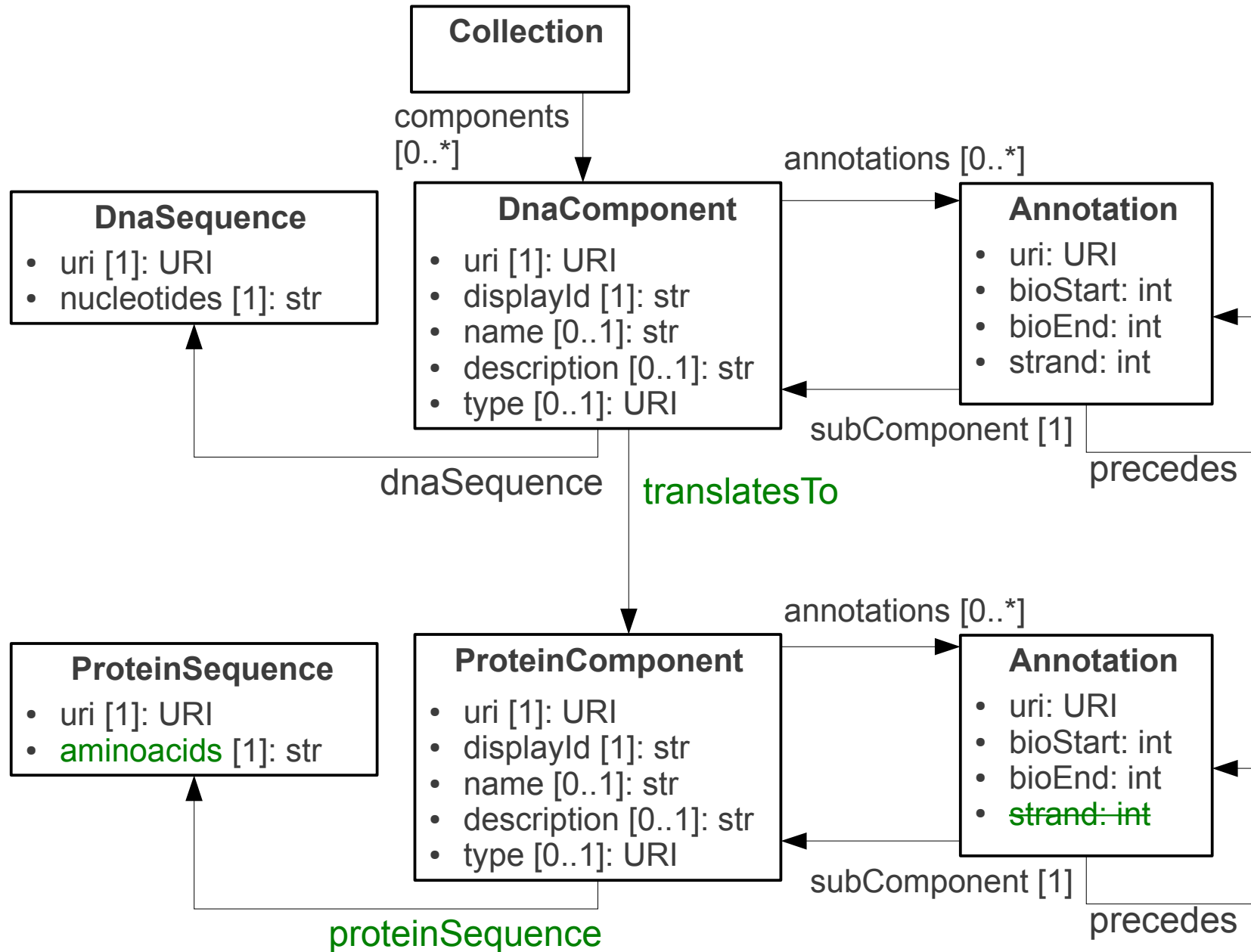
Current core model



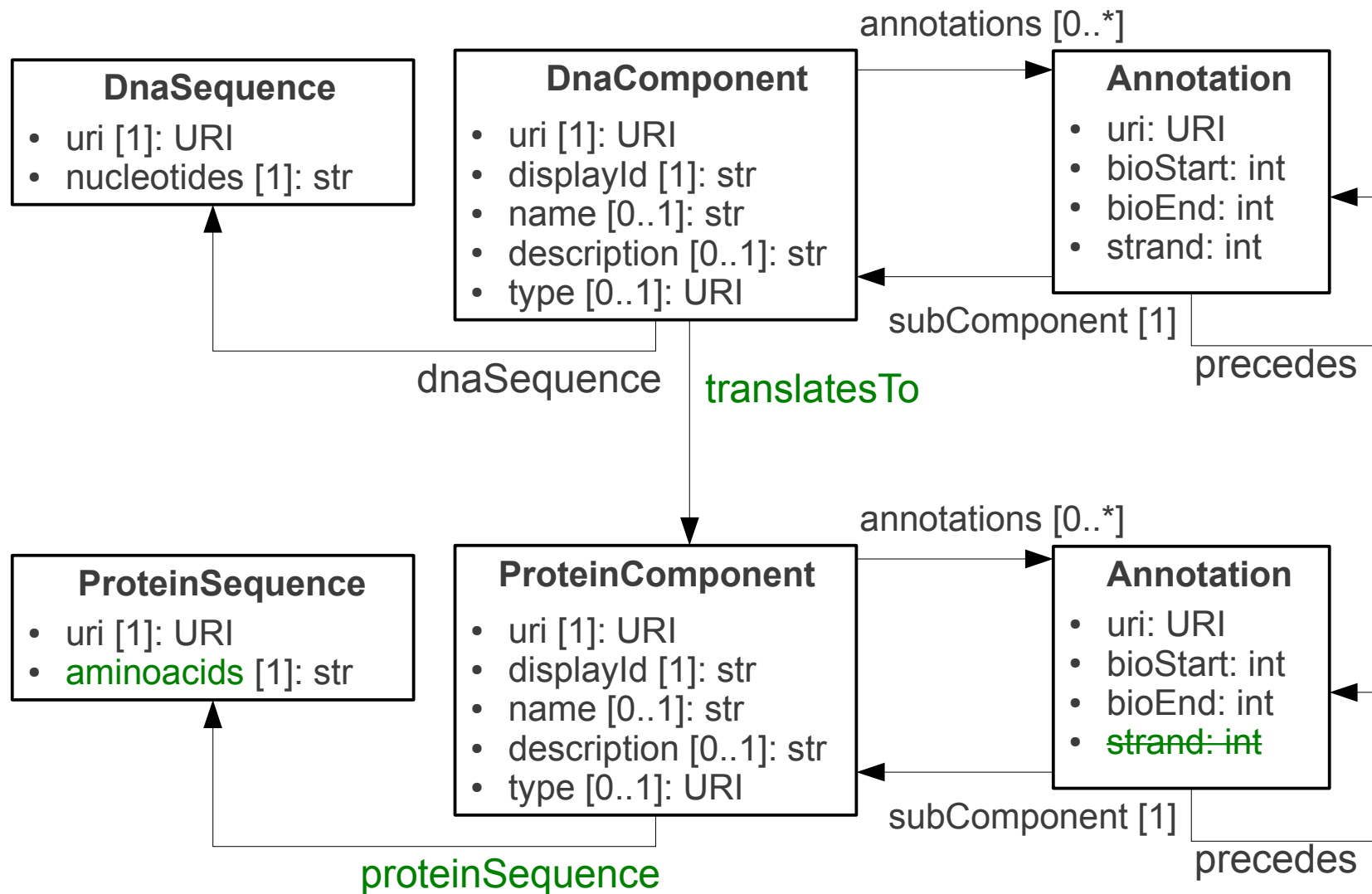
Extended core model



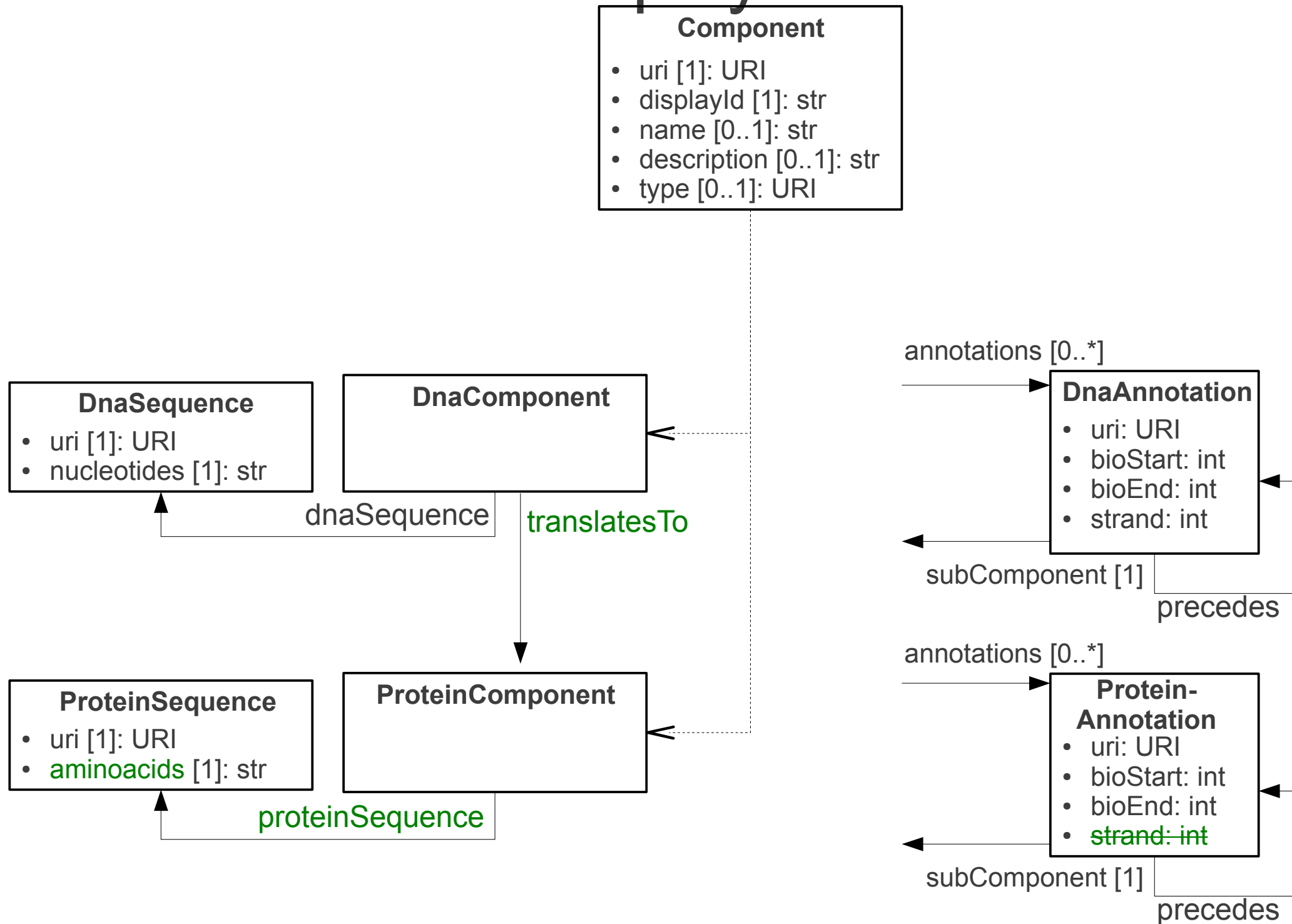
Connect...



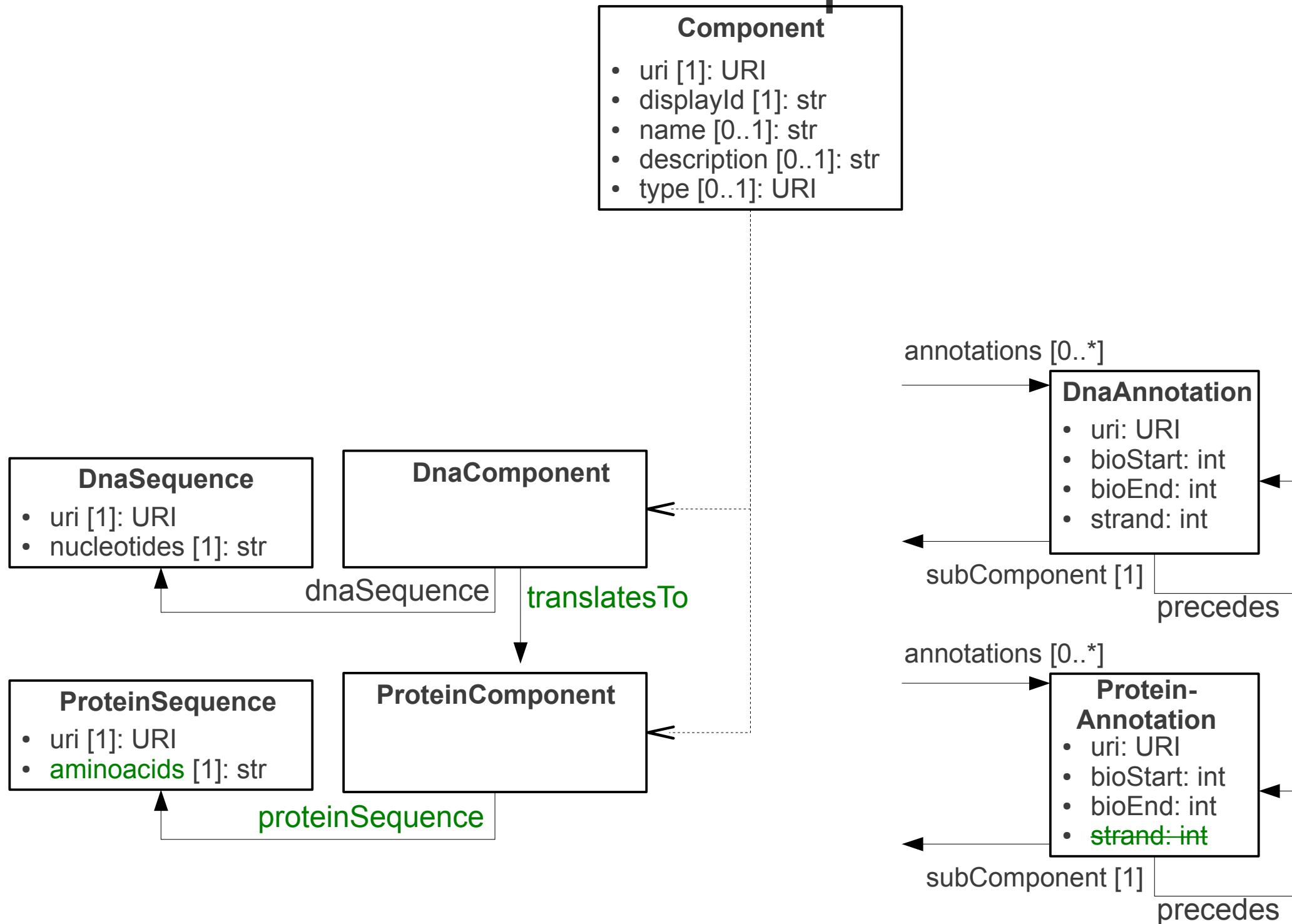
Simplify...



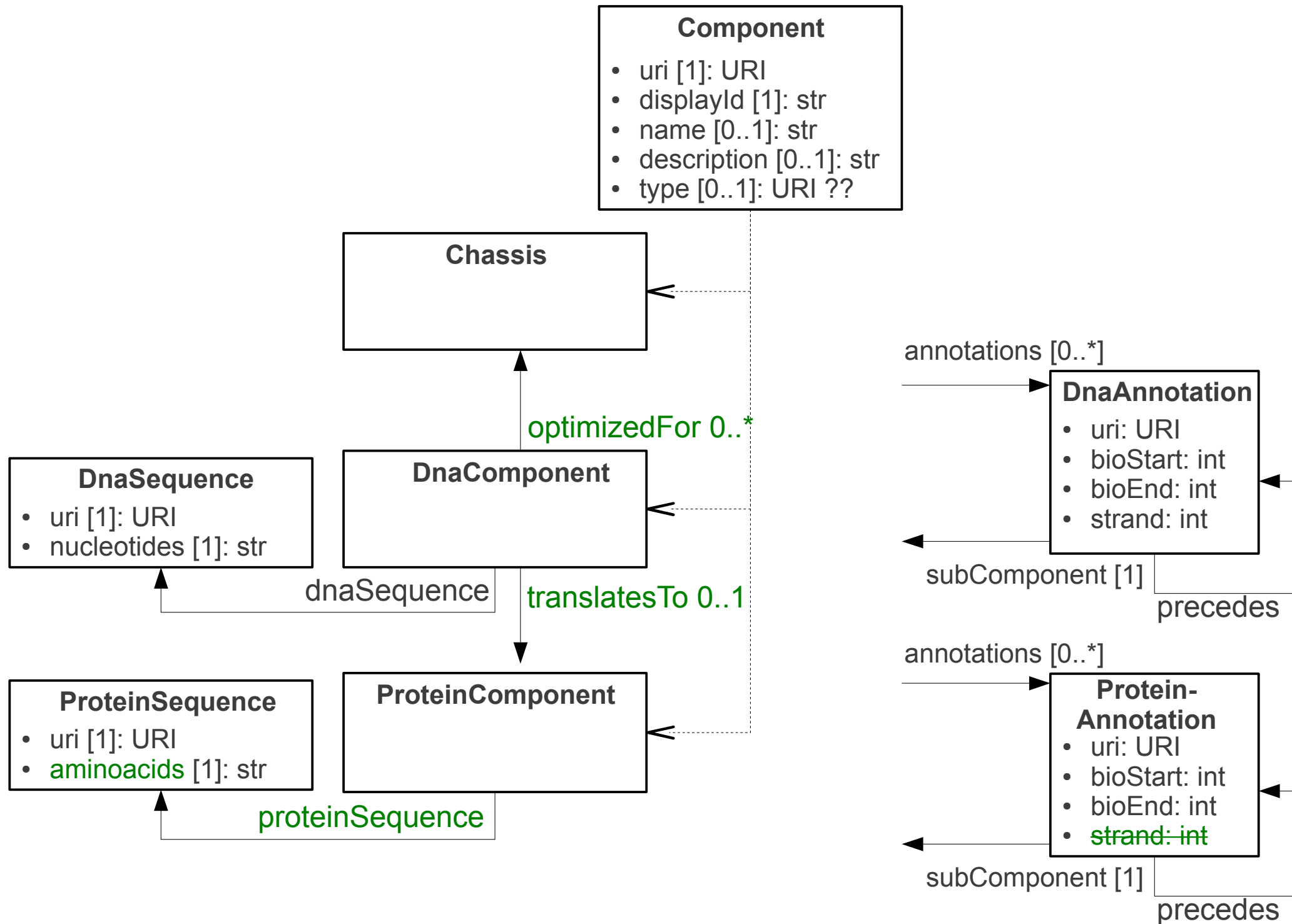
Simplify...



Next little step...

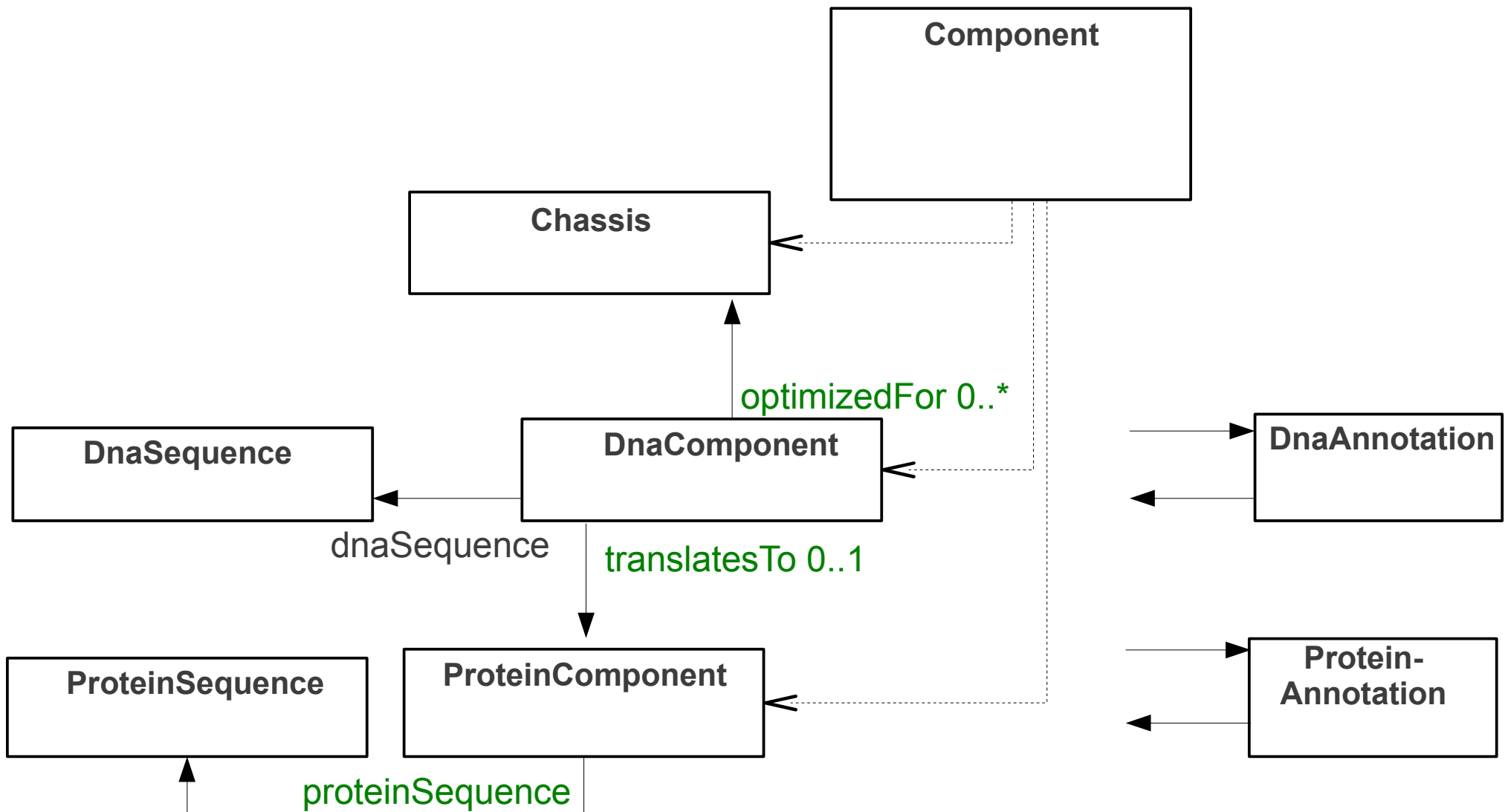


Chassis

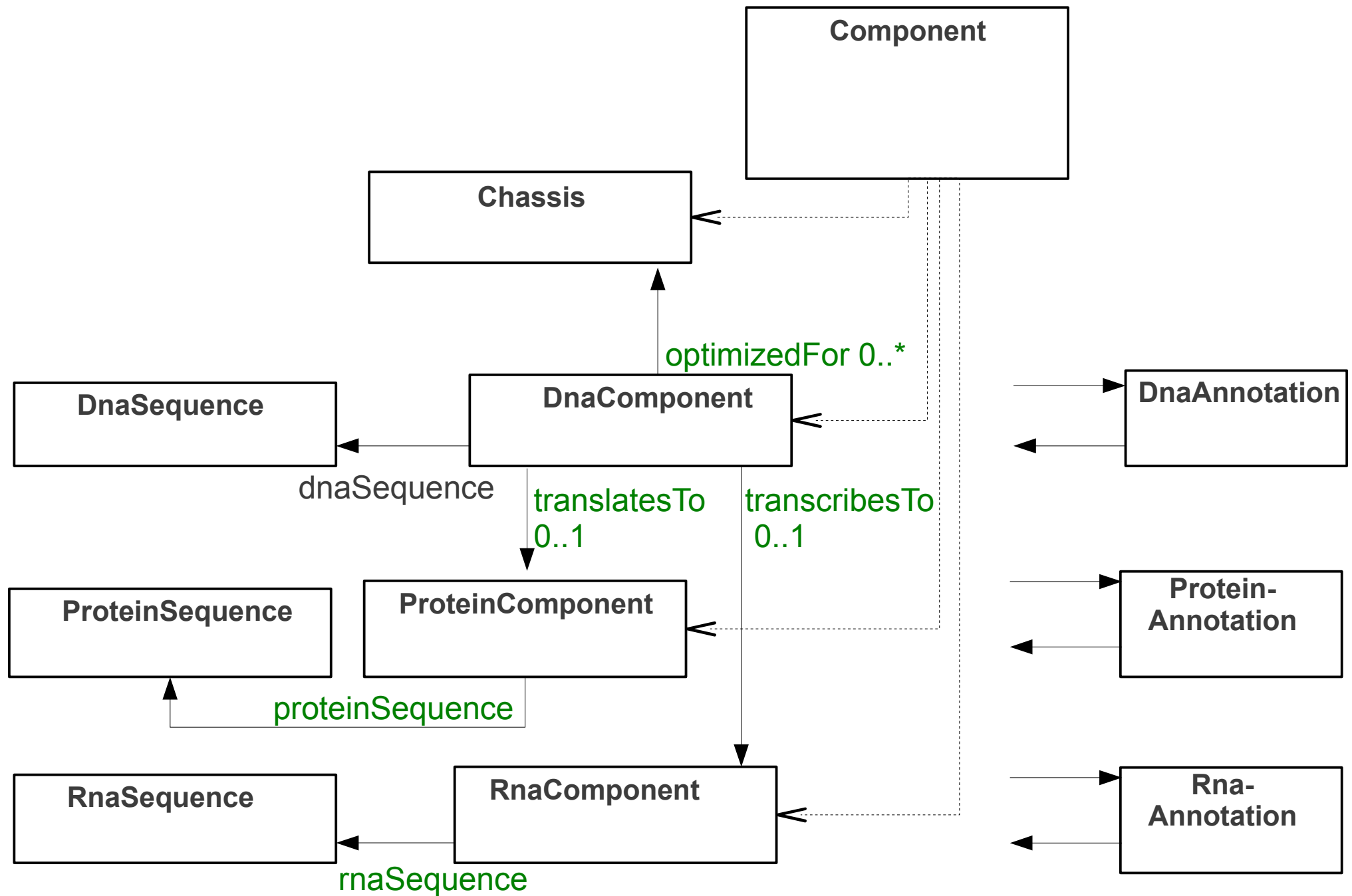


Summary -- outlook

Complete the core...



Complete Core definition

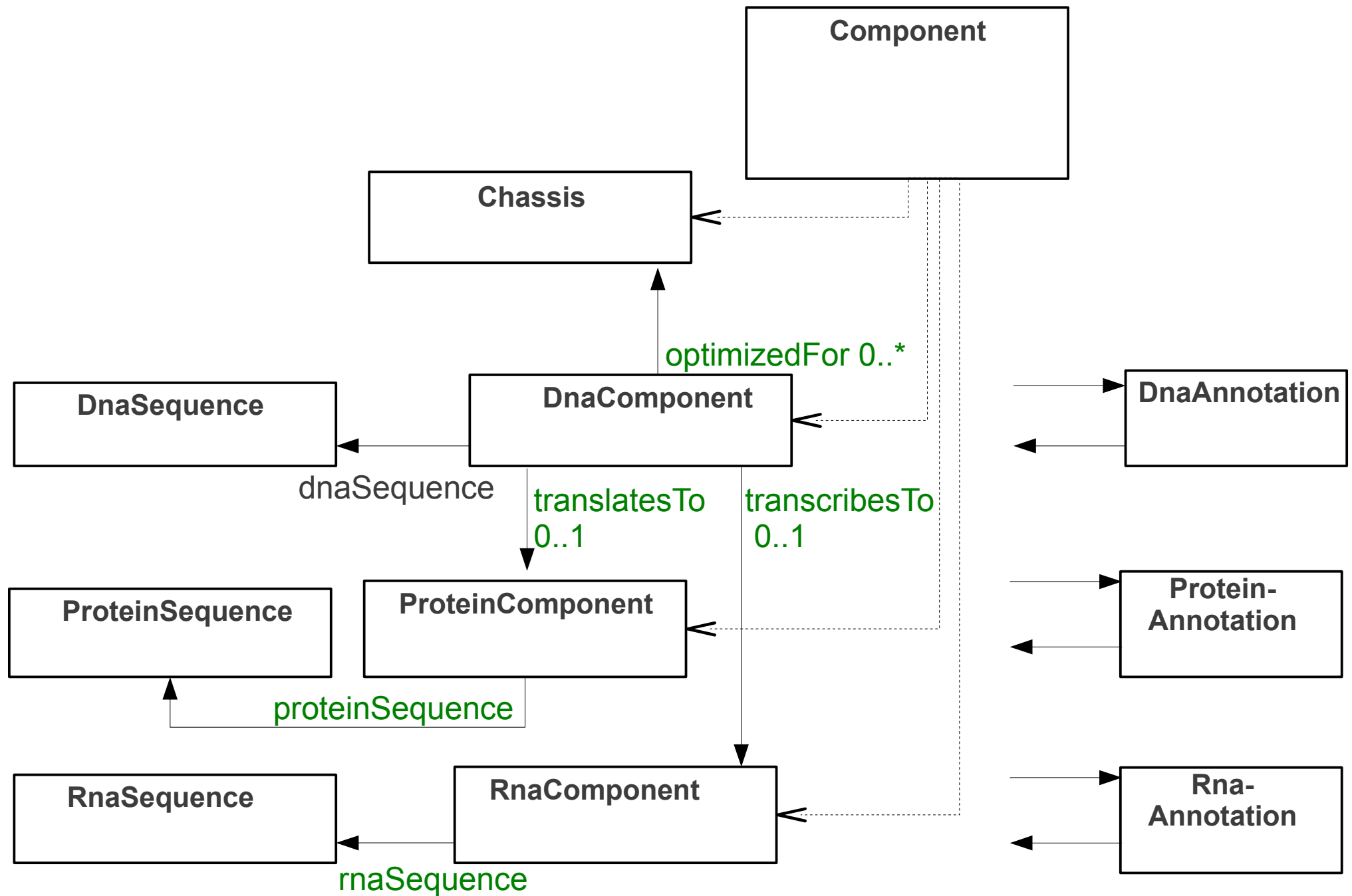


Additional core extension (perhaps not for today :)

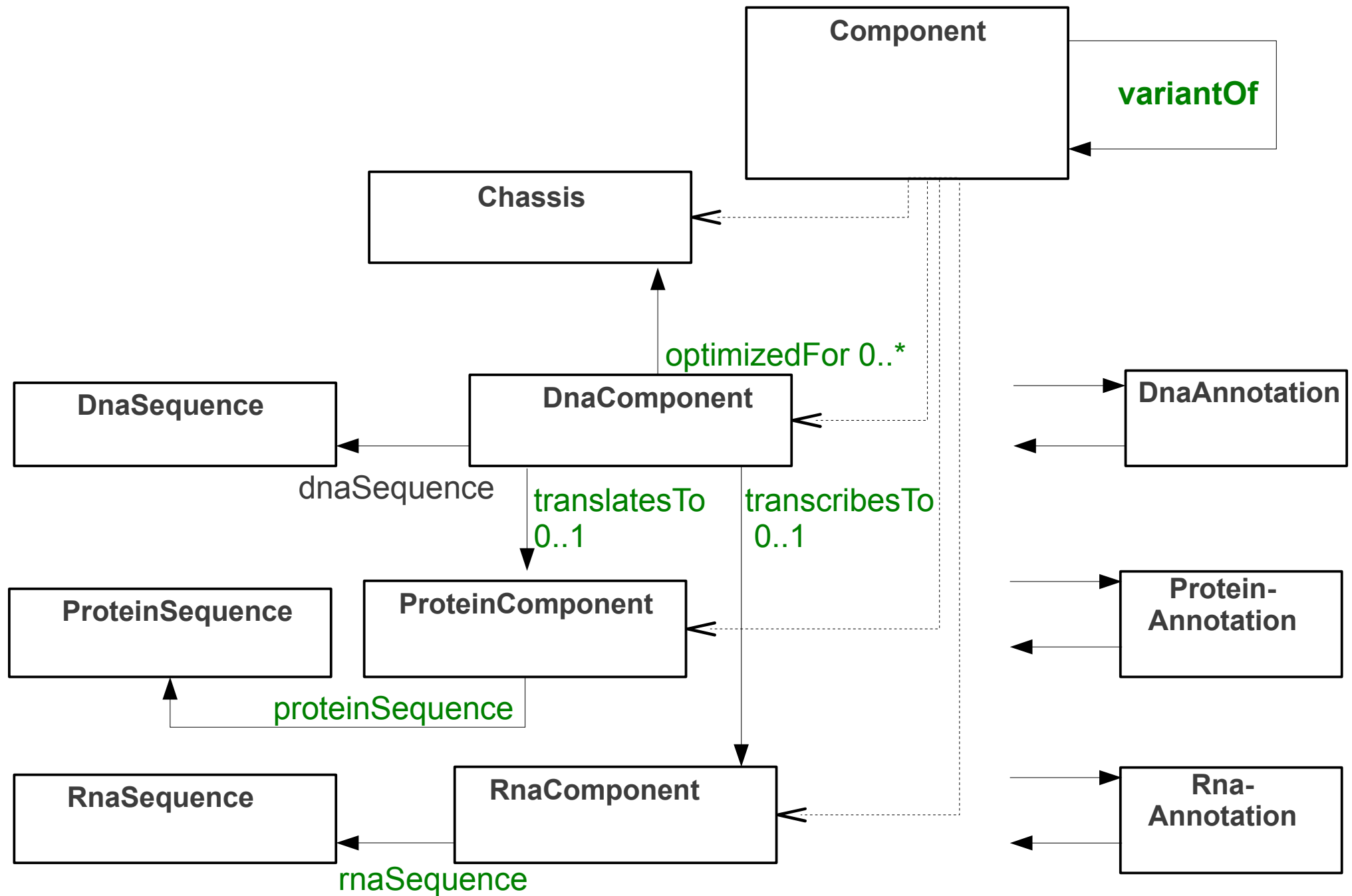
Part inheritance

Classification / Versioning / Optimization variants

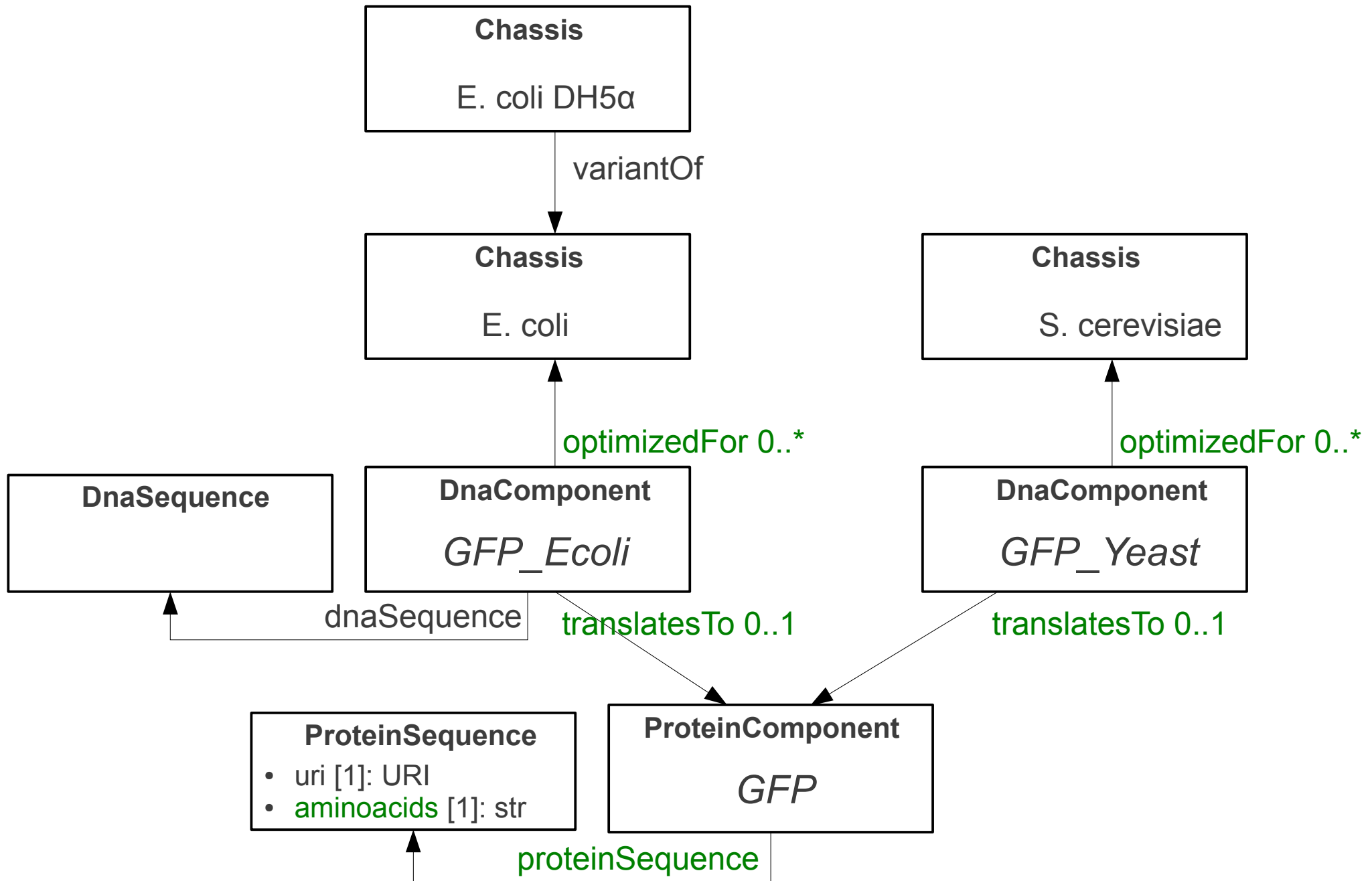
Complete Core definition



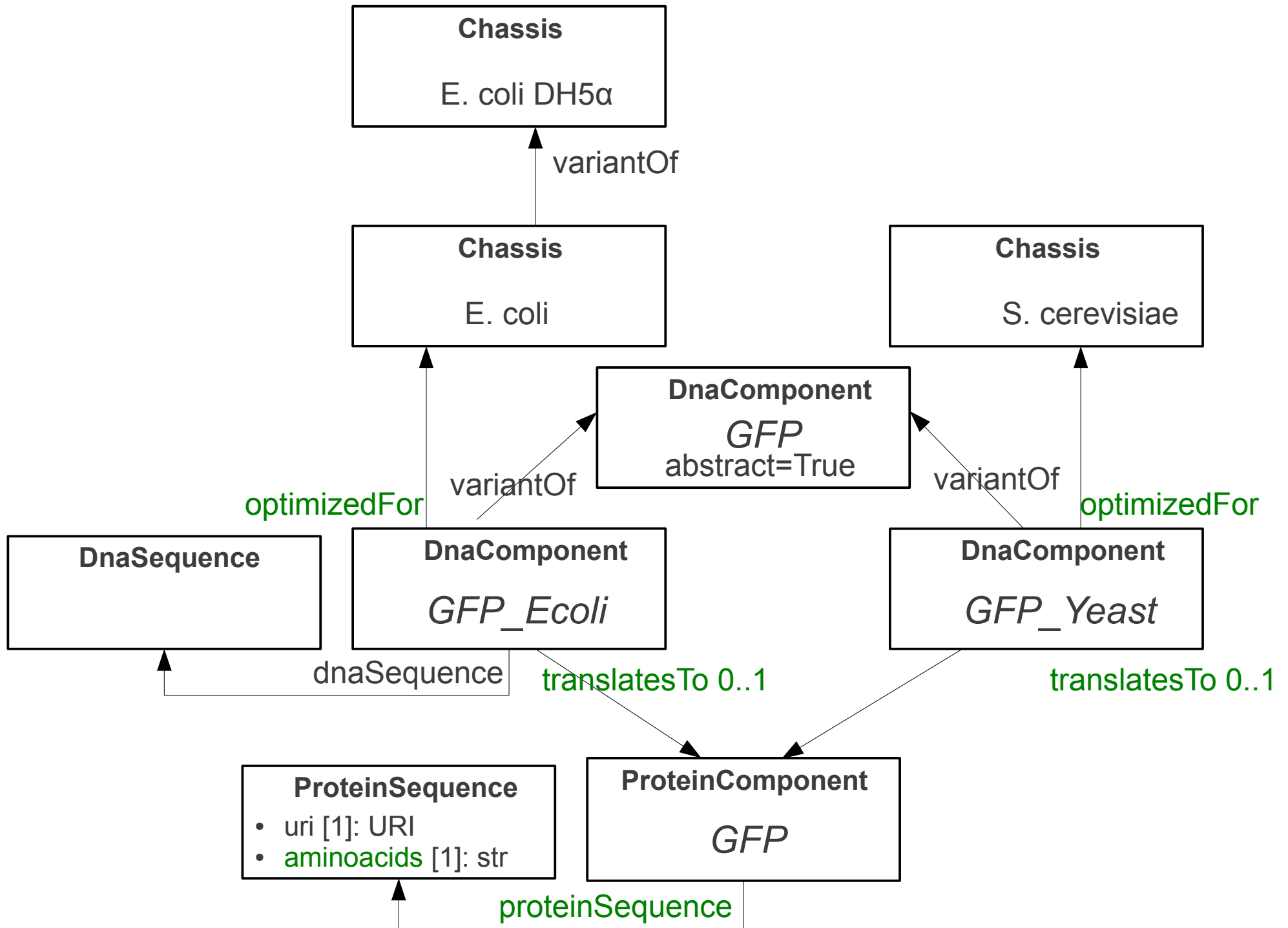
Complete Core definition



Example



Example



Discussion