

## GeneOntolo

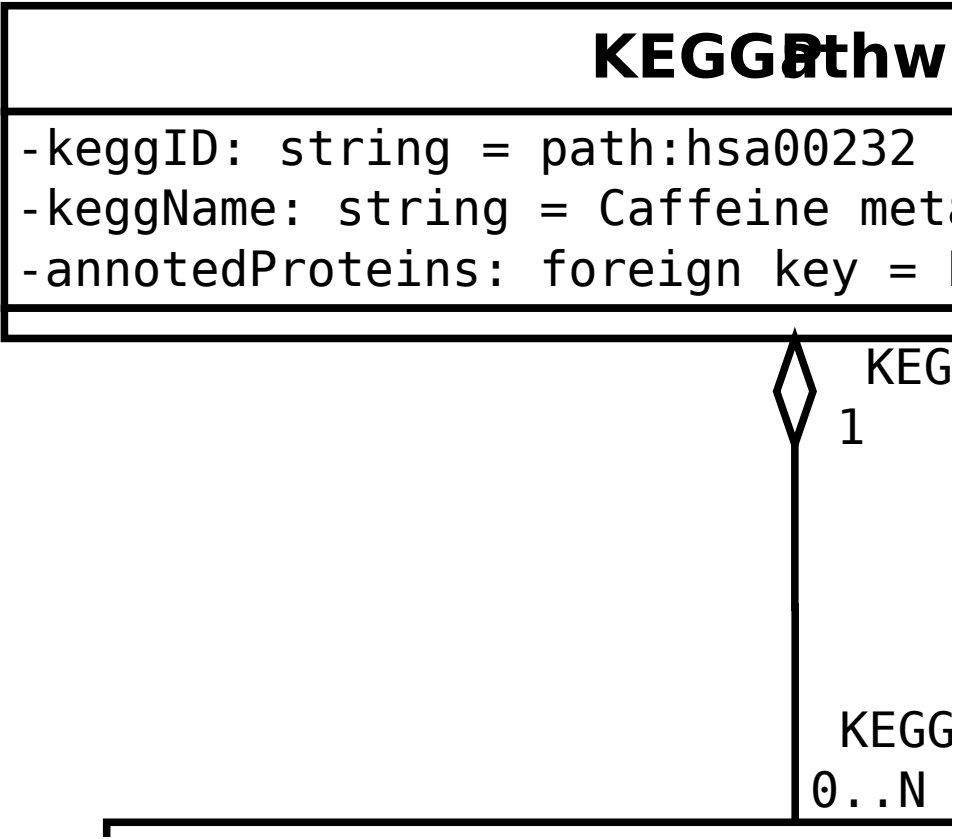
```
-goID: string = go:0005739  
-goTerm: string = mitochondrion  
-goAspect: char = C  
+proteinGOAnnotations: list = P
```

Λ Gen

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roteinGOAnnotation.id

ieOntology



9
abolism ProteinKEGGAnnotation
G

Annotation

Synony
erectile (androm) - forder

<b>mGeneSymbol</b>
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GeneSymbol
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Y 1  
GOAn  
0..N

ProteinGAnnot
-protein: foreign key = pr
-go: foreign key = GeneOnt
-evidenceCode: string = IE

ProteinDomain
-protein (primary): foreign key = Pr
-domainID (primary): string = PF0007
-sourceDB (primary): string = Pfam o
-domainName: string = Ras

ProteinCrossReferer
-protein (primary): foreign key = Pr
-sourceDB (primary): string = GI
-crossReferenceID (primary): string

Table

notation

## Annotation

protein.uniprotAC  
ology.goID  
A

GOannotation  
0..N

Protein  
1

protein.uniprotAC  
1  
r SMART

Domain  
0..N

Protein  
1

## Reference

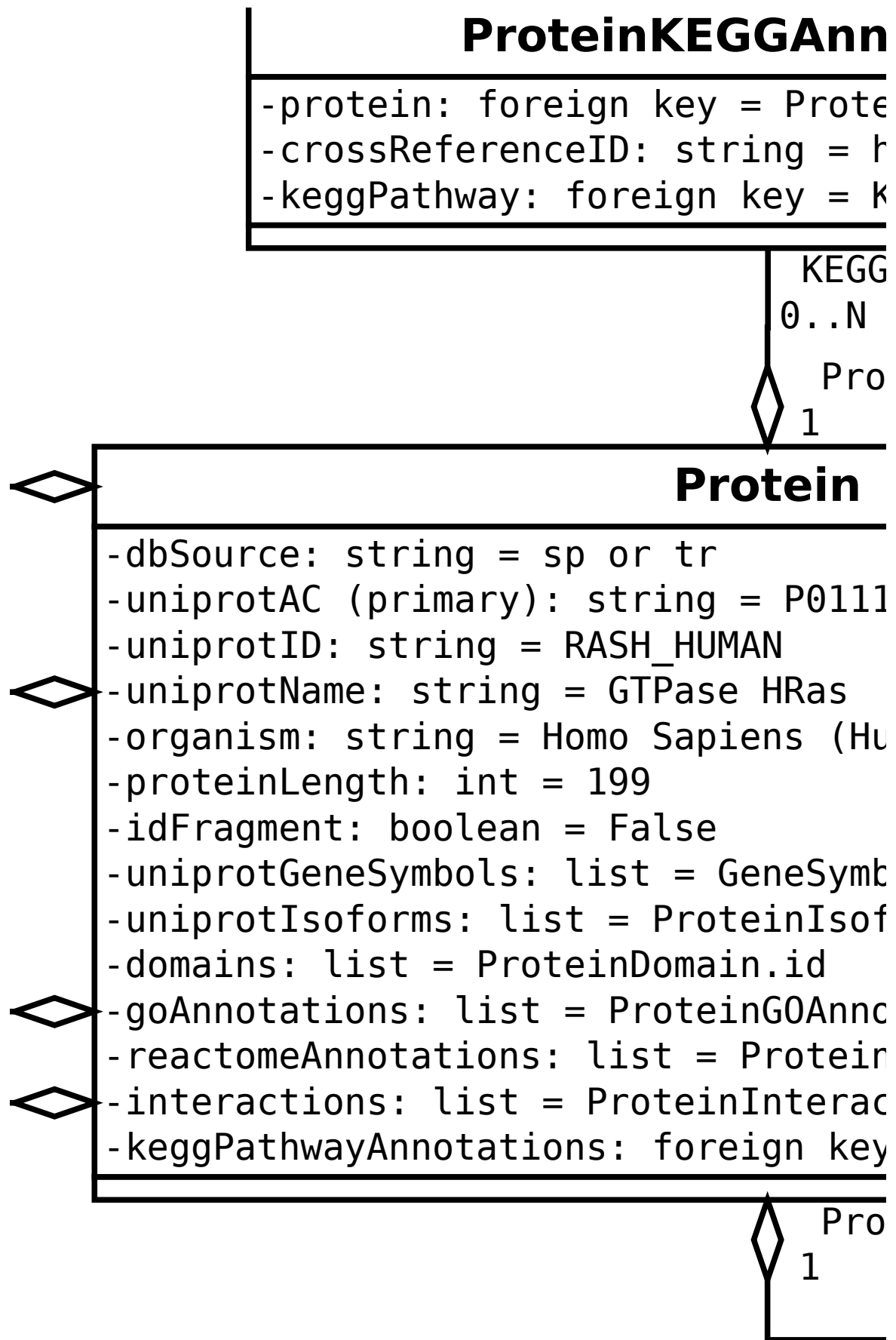
protein.uniprotAC  
= 6321837

CrossReference Protein  
0..N 1

Protein  
1

## Status





**otation**  

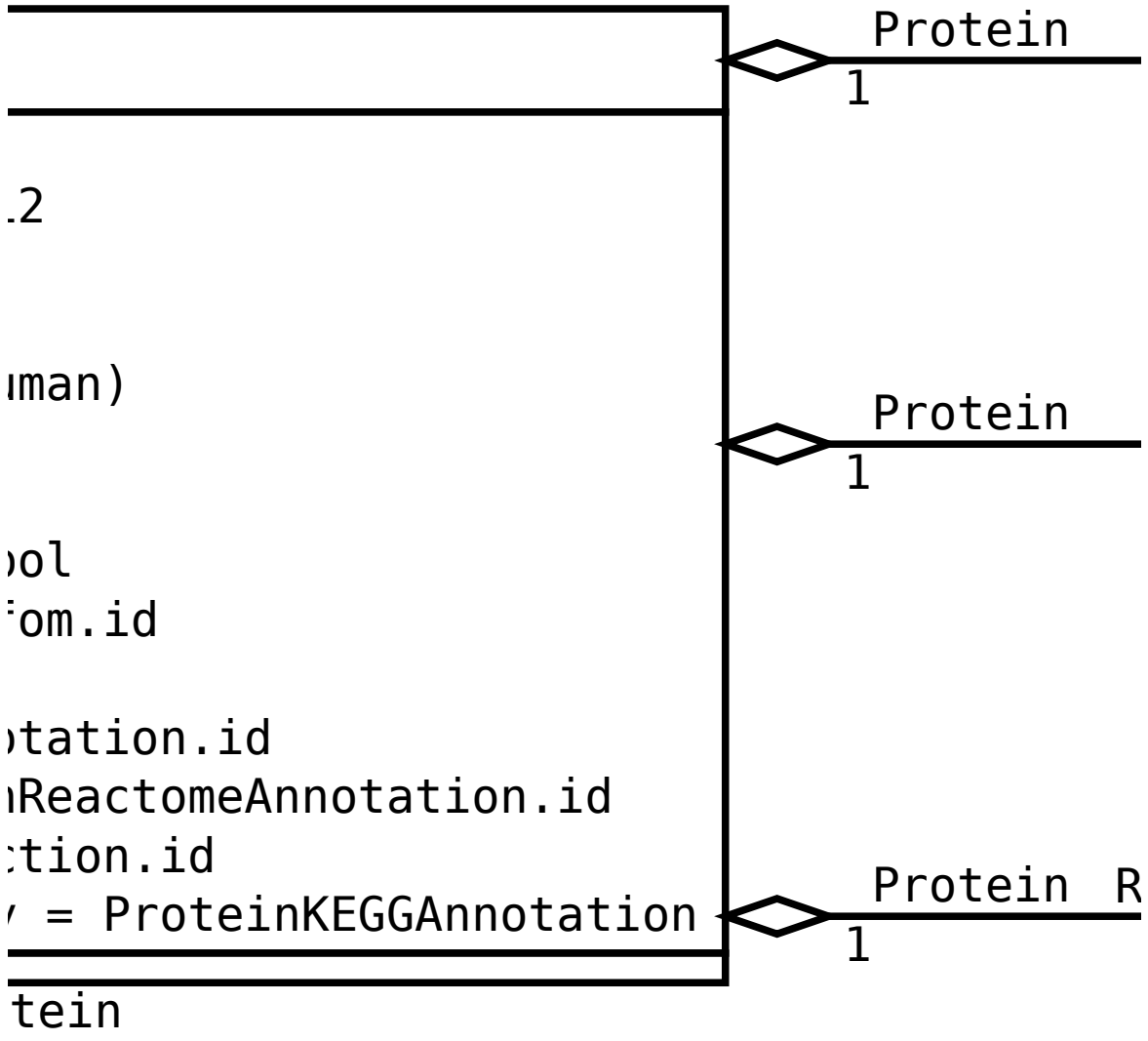

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in.uniprotAC  
sa:10  
KEGGPathway.keggID  


---

Annotation

tein



**ProteinNetworkModule**

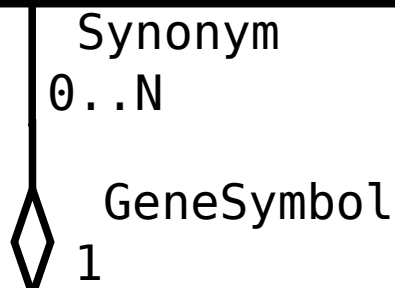
-protein (primary): foreign key
-geneSymbol (primary): foreign key
-uniprotSynonymGeneSymbol (primary)

	<b>GeneSymbol</b>
GeneSymbol	-protein (primary): foreign key
1..N	-uniprotGeneSymbol (primary)
	-uniprotSynonymGeneSymbol (primary)

	<b>ProteinIsoform</b>
Isoform	-protein: foreign key
1..N	-isoformUniprotAC: String
	-isAlternative: boolean

	<b>ProteinReactomeAnnotation</b>
ReactomeAnnotation	-protein: foreign key
0..N	-reactome: foreign key

```
key = GeneSymbol.protein_id
on key = GeneSymbol.uniprotGeneSymbol
primary): String = HSF2L
```



## GeneSymbol

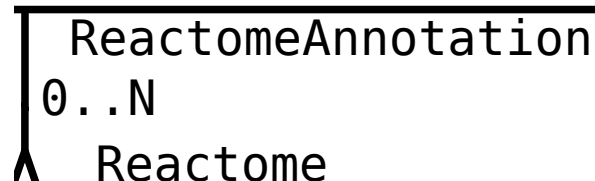
```
reign key = Protein.uniprotAC
primary): String = HSFY1
bols: list = SynonymGeneSymbol
```

## isoform

```
= Protein.uniprotAC
ing = P01112-2
n = False
```

## ReactomeAnnotation

```
= Protein.uniprotAC
= Reactome.reactomeID
```



<ul style="list-style-type: none"><li>-tableName: String</li><li>-tableStatus: Stri</li><li>-tableSource: Stri</li></ul>
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<ul style="list-style-type: none"><li>-interactor/</li><li>-interactorE</li><li>-detectionMe</li><li>-pubmedID: s</li><li>-interaction</li><li>-sourceDB: s</li><li>-confidence\$</li></ul>
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```
= <class name>  
ng = error/ok  
ng = <filename>
```

Interaction  
0..N

## ProteinInteraction

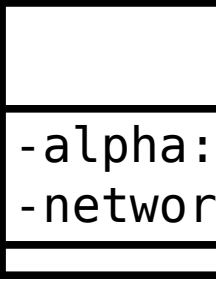
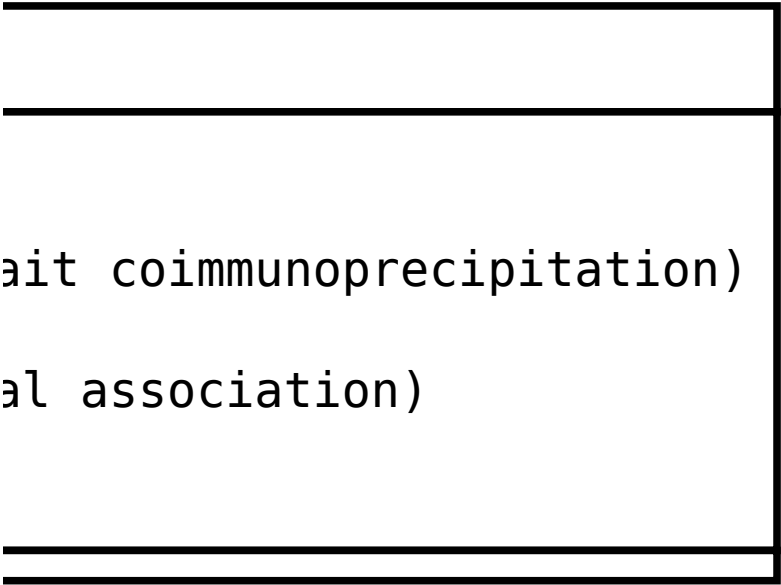
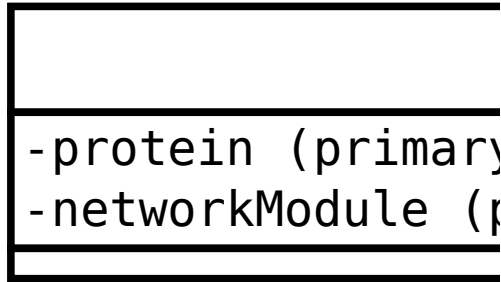
```
A: foreign key = protein.uniprotAC  
B: foreign key = protein.uniprotAC  
method: string = psi-mi:'MI:0006' (anti b  
string = pubmed:1323411  
nType: string = psi-mi:'MI:0915' (physica  
string = Intact  
Score: string = 0.95
```

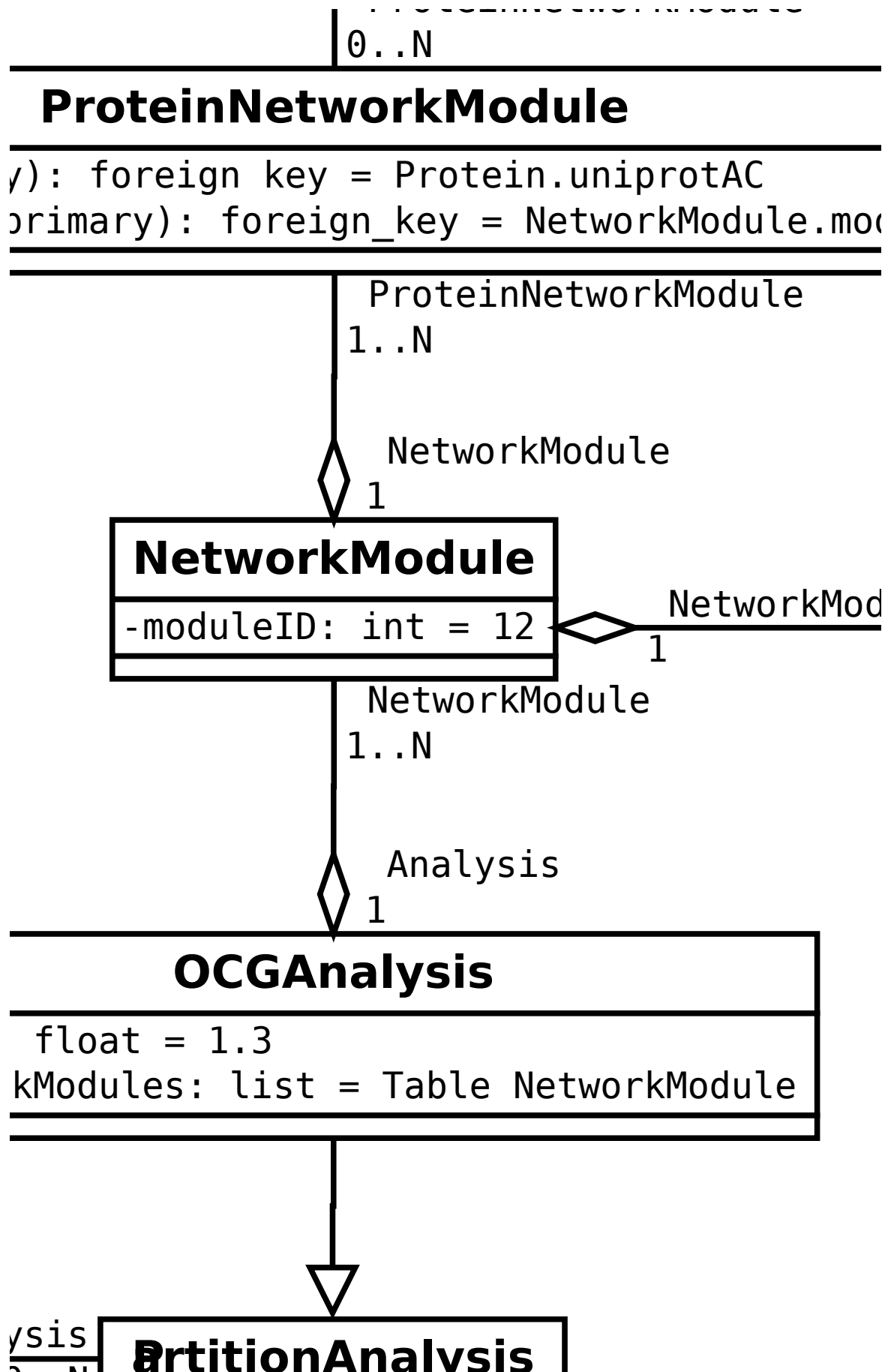
Interaction  
1..N

Network  
1

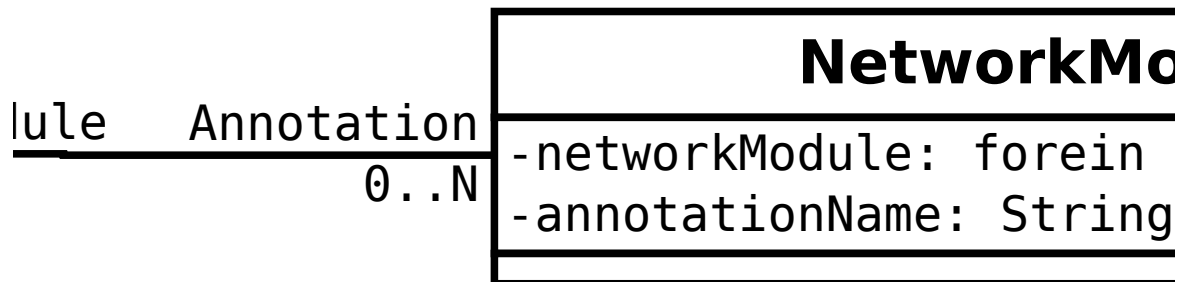
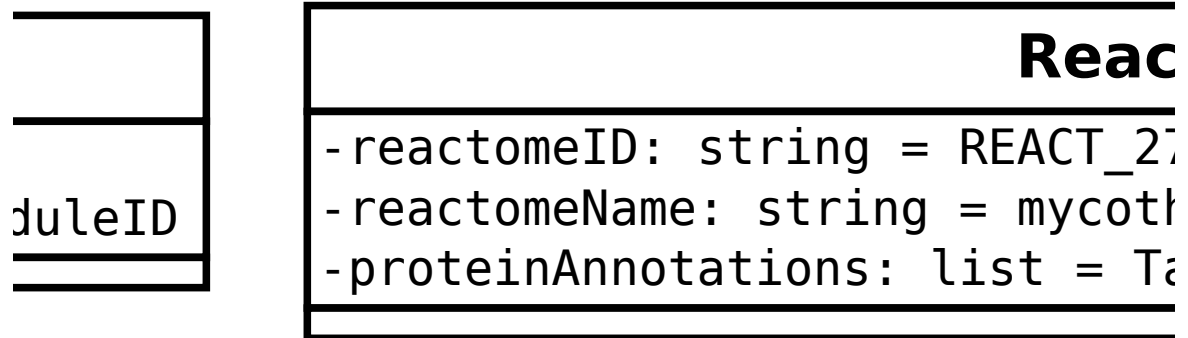
## PPINetwork

```
-Name (primary): string = Cocomplex
```









✓ 1

<b>Reactome</b>
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7106
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niol metabolism
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able ProteinReactomeAnnotation
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<b>ModuleAnnotation</b>
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key = NetworkModule.moduleID = organelle_organization
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