

# GenetikTest

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Abel Hodelin Hernandez, Timur Horn

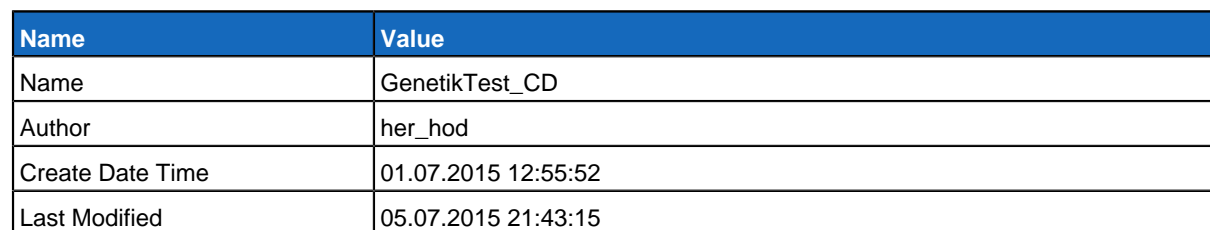
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# GenetikTest\_CD



## Summary

Name	Description
 <b>DnaGenerator</b>	<p>Ein Programm für Üben der genetischen Verfahren:</p> <p>Replication (DNA zu cDNA), Transcription (DNA zu mRNA), Translation(mRNA zu Protein).</p> <p>@author Abel Hodelin Hernandez            @author Timur Horn            @version 1.0</p>
 <b>GeneticCode</b>	<p>Speicher die genetischen Code:            Standard</p>

	Vertebrate Mitochondrial ... @author Abel Hodelin Hernandez @author Timur Horn @version 1.0
 TestGeneCode	
 GeneCode	
 ConfigGeneCode	
 GeneticQuiz	
 ImagePanel	
 NewGCDIALOG	

## Details

### DnaGenerator

Name	Value	
Description	Ein Programm für Üben der genetischen Verfahren:  Replication (DNA zu cDNA), Transcription (DNA zu mRNA), Translation(mRNA zu Protein).  @author Abel Hodelin Hernandez @author Timur Horn @version 1.0	
Active	false	
Business Key Mutable	true	
Java Detail	N/A	
Business Model	false	
Visibility	public	
Leaf	false	
Root	false	
Project Management	Name	Value
	Author	her_hod
	Create Date Time	01.07.2015 12:58:00
	Last Modified	01.07.2015 13:20:13

## Attributes

private random : java.util.Random			
Initial Value	new Random()		
Type	java.util.Random		
Allow Empty Name	false		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Java Detail	N/A		

Aggregation	None		
Derived Union	false		
Read Only	false		
Is ID	false		
Leaf	false		
Project Management	<b>Name</b>	<b>Value</b>	
	Author	her_hod	
	Create Date Time	01.07.2015 12:58:00	
	Last Modified	01.07.2015 13:08:25	


public dnaGeneral : String			
Initial Value	"TAATAGTATGAAGAGGATGACAATAACCAACAGCATCACAAAAAGTACACAACGCGACGGC		
Type	String		
Allow Empty Name	false		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Java Detail	N/A		
Aggregation	None		
Derived Union	false		
Read Only	false		
Is ID	false		
Leaf	false		
Project Management	<b>Name</b>	<b>Value</b>	
	Author	her_hod	
	Create Date Time	01.07.2015 12:58:00	
	Last Modified	01.07.2015 13:08:25	


public cdnaGeneral : String			
Description	generierte DNA-Sequenz		
Initial Value	"ATTATCATACTTCTCCTACTGTTATTGGTTGTCGTAGTGTTTTTCATGTGTTGCGCTGCCGCA		
Type	String		
Allow Empty Name	false		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Java Detail	N/A		
Aggregation	None		
Derived Union	false		
Read Only	false		
Is ID	false		
Leaf	false		


Project Management	<b>Name</b>	<b>Value</b>
	Author	her_hod
	Create Date Time	01.07.2015 12:58:00
	Last Modified	01.07.2015 13:08:25

public rnaGeneral : String			
Description	cDNA		
Initial Value	"AUUAUCAUACUUCUCCUACUGUUAUUGGUUGUCGUAGUGUUUUUCAUGUGUUGCGCUGO		
Type	String		
Allow Empty Name	false		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Java Detail	N/A		
Aggregation	None		
Derived Union	false		
Read Only	false		
Is ID	false		
Leaf	false		
Project Management	<b>Name</b>	<b>Value</b>	
	Author	her_hod	
	Create Date Time	01.07.2015 12:58:00	
	Last Modified	01.07.2015 13:08:25	

public proteinGeneral : String			
Description	mRNA		
Initial Value	"IIILLLLL VVVVFMCCAAAAGGGGPPPTTTTSSSSSYWQQNNHHEEDDKKRRRRRR****		
Type	String		
Allow Empty Name	false		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Java Detail	N/A		
Aggregation	None		
Derived Union	false		
Read Only	false		
Is ID	false		
Leaf	false		
Project Management	<b>Name</b>	<b>Value</b>	
	Author	her_hod	
	Create Date Time	01.07.2015 12:58:00	
	Last Modified	01.07.2015 13:08:25	

private senseGeneral : boolean			
Description	Protein		
Initial Value	true		
Type	 boolean		
Allow Empty Name	false		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Java Detail	N/A		
Aggregation	None		
Derived Union	false		
Read Only	false		
Is ID	false		
Leaf	false		
Project Management	<b>Name</b>	<b>Value</b>	
	Author	her_hod	
	Create Date Time	01.07.2015 12:58:00	
	Last Modified	01.07.2015 13:08:25	

private seqTypGeneral : int			
Description	Richtung zum lesen		
Initial Value	1		
Type	 int		
Allow Empty Name	false		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Java Detail	N/A		
Aggregation	None		
Derived Union	false		
Read Only	false		
Is ID	false		
Leaf	false		
Project Management	<b>Name</b>	<b>Value</b>	
	Author	her_hod	
	Create Date Time	01.07.2015 12:58:00	
	Last Modified	01.07.2015 13:08:25	




private geneCodeGeneral : int	
Description	Verfahren
Initial Value	1
Type	 int



Allow Empty Name	false		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Java Detail	N/A		
Aggregation	None		
Derived Union	false		
Read Only	false		
Is ID	false		
Leaf	false		
Project Management	<b>Name</b>	<b>Value</b>	
	Author	her_hod	
	Create Date Time	01.07.2015 12:58:00	
	Last Modified	01.07.2015 13:08:25	


## Operations

```
public generateDNA (seqLeng : int, invert : boolean, typSeqToCheck : int) : String
```


Parameters	seqLeng			
	Multiplicity	Unspecified		
	Type	 int		
	Direction	inout		
	Java Detail	N/A		
	Project Management	Name	Value	
		Author	her_hod	
		Create Date Time	01.07.2015 12:58:00	
		Last Modified	01.07.2015 13:08:25	
	invert			
	Multiplicity	Unspecified		
	Type	 boolean		
	Direction	inout		
	Java Detail	N/A		
	Project Management	Name	Value	
		Author	her_hod	
		Create Date Time	01.07.2015 12:58:00	
		Last Modified	01.07.2015 13:08:25	
	typSeqToCheck			
	Multiplicity	Unspecified		
	Type	 int		
	Direction	inout		
	Java Detail	N/A		
	Project Management	Name	Value	
		Author	her_hod	
		Create Date Time	01.07.2015 12:58:00	
		Last Modified	01.07.2015 13:08:25	
	Description	Generiert die DNA-Sequenz		
Leaf	false			
Upper	1			
Ordered	false			
Unique	true			
Return Type Description	dnaGeneral: DNA-Sequenz			
Query	false			
Project Management	Name		Value	
	Author		her_hod	
	Create Date Time		01.07.2015 12:58:00	
	Last Modified		01.07.2015 13:08:25	

```
public invertSequence (dna : String) : String
```

Parameters	<b>dna</b>		
	Multiplicity	Unspecified	
	Type	String	
	Direction	inout	
	Java Detail	N/A	
	Project Management	<b>Name</b>	<b>Value</b>
		Author	her_hod
		Create Date Time	01.07.2015 12:58:00
		Last Modified	01.07.2015 13:08:25
Description	Invertiert die XNA-Sequenz		
Leaf	false		
Upper	1		
Ordered	false		
Unique	true		
Return Type Description	dna: umgekehrte XNA-Sequenz		
Query	false		
Project Management	<b>Name</b>	<b>Value</b>	
	Author	her_hod	
	Create Date Time	01.07.2015 12:58:00	
	Last Modified	01.07.2015 13:08:25	

<b>public setCode (geneCode : int) : void</b>			
Parameters	<b>geneCode</b>		
	Multiplicity	Unspecified	
	Type	 int	
	Direction	inout	
	Java Detail	N/A	
	Project Management	<b>Name</b>	<b>Value</b>
		Author	her_hod
		Create Date Time	01.07.2015 12:58:00
		Last Modified	01.07.2015 13:08:25
Leaf	false		
Upper	1		
Ordered	false		
Unique	true		
Query	false		
Project Management	<b>Name</b>	<b>Value</b>	
	Author	her_hod	
	Create Date Time	01.07.2015 12:58:00	
	Last Modified	01.07.2015 13:08:25	


**public getSeqTyp (typ : int) : void**

Parameters	typ		
	Multiplicity	Unspecified	
	Type	 int	
	Direction	inout	
	Java Detail	N/A	
	Project Management	Name	Value
		Author	her_hod
		Create Date Time	01.07.2015 12:58:00
		Last Modified	01.07.2015 13:08:25
Leaf	false		
Upper	1		
Ordered	false		
Unique	true		
Query	false		
Project Management	Name		Value
	Author		her_hod
	Create Date Time		01.07.2015 12:58:00
	Last Modified		01.07.2015 13:08:25

<b>public dnaToCDNA () : String</b>		
Description	Replication (DNA zu cDNA)	
Leaf	false	
Upper	1	
Ordered	false	
Unique	true	
Return Type Description	cdnaGeneral: cDNA-Sequenz	
Query	false	
Project Management	<b>Name</b>	<b>Value</b>
	Author	her_hod
	Create Date Time	01.07.2015 12:58:00
	Last Modified	01.07.2015 13:08:25

<b>public dnaToMRNA () : String</b>		
Description	Transcription (DNA zu mRNA)	
Leaf	false	
Upper	1	
Ordered	false	
Unique	true	
Return Type Description	rnaGeneral: mRNA-Sequenz	
Query	false	

Project Management	<b>Name</b>	<b>Value</b>
	Author	her_hod
	Create Date Time	01.07.2015 12:58:00
	Last Modified	01.07.2015 13:08:25



public dnaToProtein (code : int) : String			
Parameters	<b>code</b>		
	Multiplicity	Unspecified	
	Type	 int	
	Direction	inout	
	Java Detail	N/A	
	Project Management	<b>Name</b>	<b>Value</b>
		Author	her_hod
		Create Date Time	01.07.2015 12:58:00
		Last Modified	01.07.2015 13:08:25
Description	Translation (mRNA zu Protein)		
Leaf	false		
Upper	1		
Ordered	false		
Unique	true		
Return Type Description	proteinGeneral: Protein-Sequenz		
Query	false		
Project Management	<b>Name</b>	<b>Value</b>	
	Author	her_hod	
	Create Date Time	01.07.2015 12:58:00	
	Last Modified	01.07.2015 13:08:25	


public checkSequence (querySequence : String) : boolean			
Parameters	<b>querySequence</b>		
	Multiplicity	Unspecified	
	Type	String	
	Direction	inout	
	Java Detail	N/A	
	Project Management	<b>Name</b>	<b>Value</b>
		Author	her_hod
		Create Date Time	01.07.2015 12:58:00
		Last Modified	01.07.2015 13:08:25
Description	Analysiert das Ergebnis Vergleich die erzeugte X-Sequenz mit der Sequenz des Benutzers		
Leaf	false		
Upper	1		
Ordered	false		

Unique	true	
Return Type Description	true wenn beide Sequenze gleich sind, sonst false	
Query	false	
Project Management	<b>Name</b>	<b>Value</b>
	Author	her_hod
	Create Date Time	01.07.2015 12:58:00
	Last Modified	01.07.2015 13:08:25

public getSequence () : String		
Description	Zeigt das Ergebnis (Sequenze)	
Leaf	false	
Upper	1	
Ordered	false	
Unique	true	
Return Type Description	seq: X-Sequenze	
Query	false	
Project Management	<b>Name</b>	<b>Value</b>
	Author	her_hod
	Create Date Time	01.07.2015 12:58:00
	Last Modified	01.07.2015 13:08:25

## Relationships

Unnamed Association				
To	Name	Value		
	End Model Element	 GeneticCode		
	Provide Property Getter Method	false		
	Provide Property Setter Method	false		
	Multiplicity	Unspecified		
	Visibility	Unspecified		
	Aggregation Kind	None		
	Navigable	Navigable		
	Derived	false		
	Derived Union	false		
	Read Only	false		
	Static	false		
	Leaf	false		
	Type	 GeneticCode		
	Project Management	Name	Value	
		Author	her_hod	
Create Date Time		01.07.2015 13:08:10		


Abstract	false			
Leaf	false			
Visibility	Unspecified			
Derived	false			
Project Management	Name		Value	
	Author		her_hod	
	Create Date Time		01.07.2015 13:08:10	
	Last Modified		01.07.2015 13:20:13	
Unnamed Association				
From	Name		Value	
	End Model Element		 GeneticQuiz	
	Provide Property Getter Method		false	
	Provide Property Setter Method		false	
	Multiplicity		Unspecified	
	Visibility		Unspecified	
	Aggregation Kind		None	
	Navigable		Non Navigable	
	Derived		false	
	Derived Union		false	
	Read Only		false	
	Static		false	
	Leaf		false	
	Project Management		Name	Value
			Author	her_hod
			Create Date Time	01.07.2015 12:59:11
Abstract	false			
Leaf	false			
Visibility	Unspecified			
Derived	false			
Project Management	Name		Value	
	Author		her_hod	
	Create Date Time		01.07.2015 12:59:11	
	Last Modified		01.07.2015 13:08:25	

## GeneticCode

Name	Value
Description	Speicher die genetischen Code: Standard Vertebrate Mitochondrial ... @author Abel Hodelin Hernandez

	@author Timur Horn @version 1.0	
Active	false	
Business Key Mutable	true	
Java Detail	N/A	
Business Model	false	
Visibility	public	
Leaf	false	
Root	false	
Project Management	<b>Name</b>	<b>Value</b>
	Author	her_hod
	Create Date Time	01.07.2015 12:59:03
	Last Modified	01.07.2015 13:20:13



## Operations

public RNAToProtein (codon : String, code : int) : String		
Parameters	<b>codon</b>	
	Multiplicity	Unspecified
	Type	String
	Direction	inout
	Java Detail	N/A
	Project Management	<b>Name</b>
		<b>Value</b>
		Author
		her_hod
	Project Management	Create Date Time
		01.07.2015 12:59:03
		Last Modified
		01.07.2015 13:08:25
	<b>code</b>	
	Multiplicity	Unspecified
	Type	 int
	Direction	inout
	Java Detail	N/A
	Project Management	<b>Name</b>
		<b>Value</b>
		Author
		her_hod
	Project Management	Create Date Time
		01.07.2015 12:59:03
		Last Modified
		01.07.2015 13:08:25
Description	Translation (mRNA zu Protein)	
Leaf	false	
Upper	1	
Ordered	false	
Unique	true	
Return Type Description	amino: Aminosäure	
Query	false	



Project Management	Name	Value
	Author	her_hod
	Create Date Time	01.07.2015 12:59:03
	Last Modified	01.07.2015 13:08:25

## Relationships

Unnamed Association				
From	Name	Value		
	End Model Element	 DnaGenerator		
	Provide Property Getter Method	false		
	Provide Property Setter Method	false		
	Multiplicity	Unspecified		
	Visibility	Unspecified		
	Aggregation Kind	None		
	Navigable	Navigable		
	Derived	false		
	Derived Union	false		
	Read Only	false		
	Static	false		
	Leaf	false		
	Type	 DnaGenerator		
	Project Management	Name	Value	
		Author	her_hod	
		Create Date Time	01.07.2015 13:08:10	
Abstract	false			
Leaf	false			
Visibility	Unspecified			
Derived	false			
Project Management	Name		Value	
	Author		her_hod	
	Create Date Time		01.07.2015 13:08:10	
	Last Modified		01.07.2015 13:20:13	

## TestGeneCode

Name	Value
Active	false
Business Key Mutable	true
Business Model	false
Visibility	public
Leaf	false

Root	false	
Project Management	<b>Name</b>	<b>Value</b>
	Author	her_hod
	Create Date Time	01.07.2015 13:15:56
	Last Modified	01.07.2015 13:20:13

## Operations

public main (str : String)		
Parameters	<b>str</b>	
	Multiplicity	Unspecified
	Type Modifier	[]
	Type	String
	Direction	inout
	Project Management	<b>Name</b>
		<b>Value</b>
		Author
		her_hod
	Project Management	Create Date Time
		01.07.2015 13:18:39
		Last Modified
		01.07.2015 13:20:13
Leaf	false	
Ordered	false	
Unique	true	
Query	false	
Project Management	<b>Name</b>	<b>Value</b>
	Author	her_hod
	Create Date Time	01.07.2015 13:16:56
	Last Modified	01.07.2015 13:20:13


## GeneCode

Name	Value	
Active	false	
Business Key Mutable	true	
Java Detail	N/A	
Business Model	false	
Visibility	public	
Leaf	false	
Root	false	
Project Management	<b>Name</b>	<b>Value</b>
	Author	her_hod
	Create Date Time	01.07.2015 12:58:37
	Last Modified	01.07.2015 13:08:25


## Attributes

public FILEEXTENTION : String			
Initial Value	".genecode"		
Type	String		
Allow Empty Name	false		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Java Detail	N/A		
Aggregation	None		
Derived Union	false		
Read Only	false		
Is ID	false		
Leaf	false		
Project Management	<b>Name</b>	<b>Value</b>	
	Author	her_hod	
	Create Date Time	01.07.2015 12:58:37	
	Last Modified	01.07.2015 13:08:25	

private name : String			
Stereotypes	Property		
Type	String		
Allow Empty Name	false		
Getter	true	Setter	true
Derived	false		
Multiplicity	Unspecified		
Java Detail	N/A		
Aggregation	None		
Derived Union	false		
Read Only	false		
Is ID	false		
Leaf	false		
Project Management	<b>Name</b>	<b>Value</b>	
	Author	her_hod	
	Create Date Time	01.07.2015 12:58:37	
	Last Modified	01.07.2015 13:08:25	


private alphabet : char			
Stereotypes	Property		
Type Modifier	[]		
Type	 char		
Allow Empty Name	false		
Getter	true	Setter	false


Derived	false		
Multiplicity	Unspecified		
Java Detail	N/A		
Aggregation	None		
Derived Union	false		
Read Only	false		
Is ID	false		
Leaf	false		
Project Management	<b>Name</b>	<b>Value</b>	
	Author	her_hod	
	Create Date Time	01.07.2015 12:58:37	
	Last Modified	01.07.2015 13:08:25	

private wordLength : int			
Type	 int		
Allow Empty Name	false		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Java Detail	N/A		
Aggregation	None		
Derived Union	false		
Read Only	false		
Is ID	false		
Leaf	false		
Project Management	<b>Name</b>	<b>Value</b>	
	Author	her_hod	
	Create Date Time	01.07.2015 12:58:37	
	Last Modified	01.07.2015 13:08:25	

private img : java.awt.image.BufferedImage			
Type	java.awt.image.BufferedImage		
Allow Empty Name	false		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Java Detail	N/A		
Aggregation	None		
Derived Union	false		
Read Only	false		
Is ID	false		
Leaf	false		

Project Management	<b>Name</b>	<b>Value</b>
	Author	her_hod
	Create Date Time	01.07.2015 12:58:37
	Last Modified	01.07.2015 13:08:25


private imgTooBig : boolean			
Type	 boolean		
Allow Empty Name	false		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Java Detail	N/A		
Aggregation	None		
Derived Union	false		
Read Only	false		
Is ID	false		
Leaf	false		
Project Management	<b>Name</b>	<b>Value</b>	
	Author	her_hod	
	Create Date Time	01.07.2015 12:58:37	
	Last Modified	01.07.2015 13:08:25	

private smallestCell : int			
Type	 int		
Allow Empty Name	false		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Java Detail	N/A		
Aggregation	None		
Derived Union	false		
Read Only	false		
Is ID	false		
Leaf	false		
Project Management	<b>Name</b>	<b>Value</b>	
	Author	her_hod	
	Create Date Time	01.07.2015 12:58:37	
	Last Modified	01.07.2015 13:08:25	

private codons : java.util.Hashtable	
Template Type Bind Info	N/A
Type	java.util.Hashtable


Allow Empty Name	false		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Java Detail	N/A		
Aggregation	None		
Derived Union	false		
Read Only	false		
Is ID	false		
Leaf	false		
Project Management	<b>Name</b>	<b>Value</b>	
	Author	her_hod	
	Create Date Time	01.07.2015 12:58:37	
	Last Modified	01.07.2015 13:08:25	

private complements : java.util.Hashtable			
Template Type Bind Info	N/A		
Type	java.util.Hashtable		
Allow Empty Name	false		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Java Detail	N/A		
Aggregation	None		
Derived Union	false		
Read Only	false		
Is ID	false		
Leaf	false		
Project Management	<b>Name</b>	<b>Value</b>	
	Author	her_hod	
	Create Date Time	01.07.2015 12:58:37	
	Last Modified	01.07.2015 13:08:25	

private reverseComplement : boolean			
Initial Value	false		
Type	 boolean		
Allow Empty Name	false		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Java Detail	N/A		
Aggregation	None		

Derived Union	false		
Read Only	false		
Is ID	false		
Leaf	false		
Project Management	<b>Name</b>	<b>Value</b>	
	Author	her_hod	
	Create Date Time	01.07.2015 12:58:37	
	Last Modified	01.07.2015 13:08:25	

private colors : java.awt.Color			
Description	colors for created image		
Type Modifier	[]		
Type	java.awt.Color		
Allow Empty Name	false		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Java Detail	N/A		
Aggregation	None		
Derived Union	false		
Read Only	false		
Is ID	false		
Leaf	false		
Project Management	<b>Name</b>	<b>Value</b>	
	Author	her_hod	
	Create Date Time	01.07.2015 12:58:37	
	Last Modified	01.07.2015 13:08:25	

private nextGeneCode : GeneCode			
Type	 GeneCode		
Allow Empty Name	false		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Java Detail	N/A		
Aggregation	None		
Derived Union	false		
Read Only	false		
Is ID	false		
Leaf	false		


Project Management	<b>Name</b>	<b>Value</b>
	Author	her_hod
	Create Date Time	01.07.2015 12:58:38
	Last Modified	01.07.2015 13:08:25

## Operations


public GeneCode ()		
Leaf	false	
Upper	1	
Ordered	false	
Unique	true	
Query	false	
Project Management	<b>Name</b>	<b>Value</b>
	Author	her_hod
	Create Date Time	01.07.2015 12:58:37
	Last Modified	01.07.2015 13:08:25


public GeneCode (name : String, alph : String, l : int)



Parameters	<b>name</b>		
	Multiplicity	Unspecified	
	Type	String	
	Direction	inout	
	Java Detail	N/A	
	Project Management	<b>Name</b>	<b>Value</b>
		Author	her_hod
		Create Date Time	01.07.2015 12:58:37
		Last Modified	01.07.2015 13:08:25
	<b>alph</b>		
	Multiplicity	Unspecified	
	Type	String	
	Direction	inout	
	Java Detail	N/A	
	Project Management	<b>Name</b>	<b>Value</b>
		Author	her_hod
		Create Date Time	01.07.2015 12:58:37
		Last Modified	01.07.2015 13:08:25
	<b>I</b>		
	Multiplicity	Unspecified	
	Type	 int	
	Direction	inout	
	Java Detail	N/A	
	Project Management	<b>Name</b>	<b>Value</b>
		Author	her_hod
		Create Date Time	01.07.2015 12:58:37
		Last Modified	01.07.2015 13:08:25
Leaf	false		
Upper	1		
Ordered	false		
Unique	true		
Query	false		
Project Management	<b>Name</b>		<b>Value</b>
	Author		her_hod
	Create Date Time		01.07.2015 12:58:37
	Last Modified		01.07.2015 13:08:25

**public GeneCode (g : GeneCode)**

Parameters	<b>g</b>		
	Multiplicity	Unspecified	
	Type	 GeneCode	
	Direction	inout	
	Java Detail	N/A	
	Project Management	<b>Name</b>	<b>Value</b>
		Author	her_hod
		Create Date Time	01.07.2015 12:58:37
		Last Modified	01.07.2015 13:08:25
Leaf	false		
Upper	1		
Ordered	false		
Unique	true		
Query	false		
Project Management	<b>Name</b>	<b>Value</b>	
	Author	her_hod	
	Create Date Time	01.07.2015 12:58:37	
	Last Modified	01.07.2015 13:08:25	

<b>private init (prefix : String, position : int) : void</b>			
Parameters	<b>prefix</b>		
	Multiplicity	Unspecified	
	Type	String	
	Direction	inout	
	Java Detail	N/A	
	Project Management	<b>Name</b>	<b>Value</b>
		Author	her_hod
		Create Date Time	01.07.2015 12:58:37
		Last Modified	01.07.2015 13:08:25
	<b>position</b>		
	Multiplicity	Unspecified	
	Type	 int	
	Direction	inout	
	Java Detail	N/A	
	Project Management	<b>Name</b>	<b>Value</b>
		Author	her_hod
		Create Date Time	01.07.2015 12:58:37
		Last Modified	01.07.2015 13:08:25
Description	fill Hashtable rekursive		
Leaf	false		
Upper	1		

Ordered	false	
Unique	true	
Query	false	
Project Management	<b>Name</b>	<b>Value</b>
	Author	her_hod
	Create Date Time	01.07.2015 12:58:37
	Last Modified	01.07.2015 13:08:25

public setCodon (name : String, value : String) : boolean		
Parameters	<b>name</b>	
	Multiplicity	Unspecified
	Type	String
	Direction	inout
	Java Detail	N/A
	Project Management	<b>Name</b>
		<b>Value</b>
		Author
		her_hod
	Project Management	Create Date Time
		01.07.2015 12:58:37
		Last Modified
		01.07.2015 13:08:25
	<b>value</b>	
	Multiplicity	Unspecified
	Type	String
	Direction	inout
	Java Detail	N/A
	Project Management	<b>Name</b>
		<b>Value</b>
		Author
		her_hod
	Project Management	Create Date Time
		01.07.2015 12:58:37
		Last Modified
		01.07.2015 13:08:25
Leaf	false	
Upper	1	
Ordered	false	
Unique	true	
Query	false	
Project Management	<b>Name</b>	<b>Value</b>
	Author	her_hod
	Create Date Time	01.07.2015 12:58:37
	Last Modified	01.07.2015 13:08:25

**public setComplement (name : String, value : String) : boolean**

Parameters	<b>name</b>		
	Multiplicity	Unspecified	
	Type	String	
	Direction	inout	
	Java Detail	N/A	
	Project Management	<b>Name</b>	<b>Value</b>
		Author	her_hod
		Create Date Time	01.07.2015 12:58:37
		Last Modified	01.07.2015 13:08:25
	<b>value</b>		
	Multiplicity	Unspecified	
	Type	String	
	Direction	inout	
	Java Detail	N/A	
	Project Management	<b>Name</b>	<b>Value</b>
		Author	her_hod
		Create Date Time	01.07.2015 12:58:37
		Last Modified	01.07.2015 13:08:25
Leaf	false		
Upper	1		
Ordered	false		
Unique	true		
Query	false		
Project Management	<b>Name</b>	<b>Value</b>	
	Author	her_hod	
	Create Date Time	01.07.2015 12:58:37	
	Last Modified	01.07.2015 13:08:25	

<b>public getComplement (letter : String) : String</b>			
Parameters	<b>letter</b>		
	Multiplicity	Unspecified	
	Type	String	
	Direction	inout	
	Java Detail	N/A	
	Project Management	<b>Name</b>	<b>Value</b>
		Author	her_hod
		Create Date Time	01.07.2015 12:58:37
		Last Modified	01.07.2015 13:08:25
Leaf	false		
Upper	1		
Ordered	false		

Unique	true	
Query	false	
Project Management	<b>Name</b>	<b>Value</b>
	Author	her_hod
	Create Date Time	01.07.2015 12:58:37
	Last Modified	01.07.2015 13:08:25

package SaveAs (FileName : String) : boolean		
Parameters	<b>FileName</b>	
	Multiplicity	Unspecified
	Type	String
	Direction	inout
	Java Detail	N/A
	Project Management	<b>Name</b>
		<b>Value</b>
		Author
		her_hod
	Project Management	Create Date Time
		01.07.2015 12:58:37
		Last Modified
		01.07.2015 13:08:25
Leaf	false	
Upper	1	
Ordered	false	
Unique	true	
Query	false	
Project Management	<b>Name</b>	<b>Value</b>
	Author	her_hod
	Create Date Time	01.07.2015 12:58:37
	Last Modified	01.07.2015 13:08:25

package ReadCode (fileName : String) : GeneCode		
Parameters	<b>fileName</b>	
	Multiplicity	Unspecified
	Type	String
	Direction	inout
	Java Detail	N/A
	Project Management	<b>Name</b>
		<b>Value</b>
		Author
		her_hod
	Project Management	Create Date Time
		01.07.2015 12:58:37
		Last Modified
		01.07.2015 13:08:25
Leaf	false	
Upper	1	
Ordered	false	
Unique	true	
Query	false	

Project Management	<b>Name</b>	<b>Value</b>
	Author	her_hod
	Create Date Time	01.07.2015 12:58:37
	Last Modified	01.07.2015 13:08:25

public getValue (codon : String) : String			
Parameters	<b>codon</b>		
	Multiplicity	Unspecified	
	Type	String	
	Direction	inout	
	Java Detail	N/A	
	Project Management	<b>Name</b>	<b>Value</b>
		Author	her_hod
		Create Date Time	01.07.2015 12:58:37
		Last Modified	01.07.2015 13:08:25
Leaf	false		
Upper	1		
Ordered	false		
Unique	true		
Query	false		
Project Management	<b>Name</b>	<b>Value</b>	
	Author	her_hod	
	Create Date Time	01.07.2015 12:58:37	
	Last Modified	01.07.2015 13:08:25	

public getSize () : int		
Leaf	false	
Upper	1	
Ordered	false	
Unique	true	
Query	false	
Project Management	<b>Name</b>	<b>Value</b>
	Author	her_hod
	Create Date Time	01.07.2015 12:58:37
	Last Modified	01.07.2015 13:08:25

public getElements () : java.util.Enumeration	
Leaf	false
Upper	1
Template Type Bind Info	N/A
Ordered	false
Unique	true


Query	false	
Project Management	<b>Name</b>	<b>Value</b>
	Author	her_hod
	Create Date Time	01.07.2015 12:58:37
	Last Modified	01.07.2015 13:08:25

public toString () : String		
Leaf	false	
Upper	1	
Ordered	false	
Unique	true	
Query	false	
Project Management	<b>Name</b>	<b>Value</b>
	Author	her_hod
	Create Date Time	01.07.2015 12:58:37
	Last Modified	01.07.2015 13:08:25


public clone () : GeneCode		
Leaf	false	
Upper	1	
Ordered	false	
Unique	true	
Query	false	
Project Management	<b>Name</b>	<b>Value</b>
	Author	her_hod
	Create Date Time	01.07.2015 12:58:37
	Last Modified	01.07.2015 13:08:25

public getCodonLength () : int		
Leaf	false	
Upper	1	
Ordered	false	
Unique	true	
Query	false	
Project Management	<b>Name</b>	<b>Value</b>
	Author	her_hod
	Create Date Time	01.07.2015 12:58:37
	Last Modified	01.07.2015 13:08:25

public getCodonKeyFromGraph (angle : double) : String		
---	--	--


Parameters	<b>angle</b>		
	Multiplicity	Unspecified	
	Type	 double	
	Direction	inout	
	Java Detail	N/A	
	Project Management	<b>Name</b>	<b>Value</b>
		Author	her_hod
		Create Date Time	01.07.2015 12:58:37
		Last Modified	01.07.2015 13:08:25
Leaf	false		
Upper	1		
Ordered	false		
Unique	true		
Query	false		
Project Management	<b>Name</b>		<b>Value</b>
	Author		her_hod
	Create Date Time		01.07.2015 12:58:37
	Last Modified		01.07.2015 13:08:25

<b>public getCodeSun () : java.awt.image.BufferedImage</b>			
Leaf	false		
Upper	1		
Ordered	false		
Unique	true		
Query	false		
Project Management	<b>Name</b>		<b>Value</b>
	Author		her_hod
	Create Date Time		01.07.2015 12:58:37
	Last Modified		01.07.2015 13:08:25


<b>public markCodon (angle : double) : java.awt.image.BufferedImage</b>			
Parameters	<b>angle</b>		
	Multiplicity	Unspecified	
	Type	 double	
	Direction	inout	
	Java Detail	N/A	
	Project Management	<b>Name</b>	<b>Value</b>
		Author	her_hod
		Create Date Time	01.07.2015 12:58:37
		Last Modified	01.07.2015 13:08:25
Description	TODO noch nicht fertig		
Leaf	false		



Upper	1	
Ordered	false	
Unique	true	
Query	false	
Project Management	<b>Name</b>	<b>Value</b>
	Author	her_hod
	Create Date Time	01.07.2015 12:58:37
	Last Modified	01.07.2015 13:08:25

public getColor (index : int) : java.awt.Color		
Parameters	<b>index</b>	
	Multiplicity	Unspecified
	Type	 int
	Direction	inout
	Java Detail	N/A
	Project Management	<b>Name</b>
		<b>Value</b>
		Author
		her_hod
		Create Date Time
		01.07.2015 12:58:37
		Last Modified
		01.07.2015 13:08:25
Leaf	false	
Upper	1	
Ordered	false	
Unique	true	
Query	false	
Project Management	<b>Name</b>	<b>Value</b>
	Author	her_hod
	Create Date Time	01.07.2015 12:58:37
	Last Modified	01.07.2015 13:08:25


public setColor (index : int, color : java.awt.Color) : void
--

Parameters	<b>index</b>		
	Multiplicity	Unspecified	
	Type	 int	
	Direction	inout	
	Java Detail	N/A	
	Project Management	<b>Name</b>	<b>Value</b>
		Author	her_hod
		Create Date Time	01.07.2015 12:58:37
		Last Modified	01.07.2015 13:08:25
	<b>color</b>		
	Multiplicity	Unspecified	
	Type	java.awt.Color	
	Direction	inout	
	Java Detail	N/A	
	Project Management	<b>Name</b>	<b>Value</b>
		Author	her_hod
		Create Date Time	01.07.2015 12:58:37
		Last Modified	01.07.2015 13:08:25
Leaf	false		
Upper	1		
Ordered	false		
Unique	true		
Query	false		
Project Management	<b>Name</b>	<b>Value</b>	
	Author	her_hod	
	Create Date Time	01.07.2015 12:58:37	
	Last Modified	01.07.2015 13:08:25	

<b>public getColorsCount () : int</b>		
Leaf	false	
Upper	1	
Ordered	false	
Unique	true	
Query	false	
Project Management	<b>Name</b>	<b>Value</b>
	Author	her_hod
	Create Date Time	01.07.2015 12:58:37
	Last Modified	01.07.2015 13:08:25



<b>public getNextCode () : GeneCode</b>	
Leaf	false


Upper	1	
Ordered	false	
Unique	true	
Query	false	
Project Management	<b>Name</b>	<b>Value</b>
	Author	her_hod
	Create Date Time	01.07.2015 12:58:37
	Last Modified	01.07.2015 13:08:25


public setNextCode (genc : GeneCode) : boolean		
Parameters	<b>genc</b>	
	Multiplicity	Unspecified
	Type	 GeneCode
	Direction	inout
	Java Detail	N/A
	Project Management	<b>Name</b>
		<b>Value</b>
		Author
		her_hod
		Create Date Time
		01.07.2015 12:58:37
		Last Modified
		01.07.2015 13:08:25
Leaf	false	
Upper	1	
Ordered	false	
Unique	true	
Query	false	
Project Management	<b>Name</b>	<b>Value</b>
	Author	her_hod
	Create Date Time	01.07.2015 12:58:37
	Last Modified	01.07.2015 13:08:25

## Relationships


Unnamed Association
---------------------

To (nextGeneCode)	Name		Value	
	End Model Element		 GeneCode	
	Representative Attribute		nextGeneCode	
	Provide Property Getter Method		false	
	Provide Property Setter Method		false	
	Multiplicity		Unspecified	
	Visibility		private	
	Aggregation Kind		None	
	Navigable		Navigable	
	Derived		false	
	Derived Union		false	
	Read Only		false	
	Static		false	
	Leaf		false	
	Type		 GeneCode	
	Project Management		Name	Value
			Author	her_hod
			Create Date Time	01.07.2015 12:58:38
Abstract	false			
Leaf	false			
Visibility	Unspecified			
Derived	false			
Project Management	Name		Value	
	Author		her_hod	
	Create Date Time		01.07.2015 12:58:38	
	Last Modified		01.07.2015 13:08:25	
Unnamed Association				


From	Name		Value			
	End Model Element		 GeneticQuiz			
	Provide Property Getter Method		false			
	Provide Property Setter Method		false			
	Multiplicity		Unspecified			
	Visibility		Unspecified			
	Aggregation Kind		None			
	Navigable		Non Navigable			
	Derived		false			
	Derived Union		false			
	Read Only		false			
	Static		false			
	Leaf		false			
	Project Management		Name		Value	
			Author		her_hod	
			Create Date Time		01.07.2015 12:59:11	
Abstract	false					
Leaf	false					
Visibility	Unspecified					
Derived	false					
Project Management	Name			Value		
	Author			her_hod		
	Create Date Time			01.07.2015 12:59:11		
	Last Modified			01.07.2015 13:08:25		
Unnamed Association						

From	Name	Value		
	End Model Element	 GeneticQuiz		
	Provide Property Getter Method	false		
	Provide Property Setter Method	false		
	Multiplicity	Unspecified		
	Visibility	Unspecified		
	Aggregation Kind	None		
	Navigable	Non Navigable		
	Derived	false		
	Derived Union	false		
	Read Only	false		
	Static	false		
	Leaf	false		
	Project Management	Name	Value	
		Author	her_hod	
		Create Date Time	01.07.2015 12:59:11	
Abstract	false			
Leaf	false			
Visibility	Unspecified			
Derived	false			
Project Management	Name	Value		
	Author	her_hod		
	Create Date Time	01.07.2015 12:59:11		
	Last Modified	01.07.2015 13:08:25		

Unnamed Association

From	Name	Value	
	End Model Element	 GeneticQuiz	
	Provide Property Getter Method	false	
	Provide Property Setter Method	false	
	Multiplicity	Unspecified	
	Visibility	Unspecified	
	Aggregation Kind	None	
	Navigable	Non Navigable	
	Derived	false	
	Derived Union	false	
	Read Only	false	
	Static	false	
	Leaf	false	
	Project Management	Name	Value
		Author	her_hod
		Create Date Time	01.07.2015 12:59:11
Abstract	false		
Leaf	false		
Visibility	Unspecified		
Derived	false		
Project Management	Name	Value	
	Author	her_hod	
	Create Date Time	01.07.2015 12:59:11	
	Last Modified	01.07.2015 13:08:25	

Unnamed Association


From	Name	Value		
	End Model Element	 NewGCDialog		
	Provide Property Getter Method	false		
	Provide Property Setter Method	false		
	Multiplicity	Unspecified		
	Visibility	Unspecified		
	Aggregation Kind	None		
	Navigable	Non Navigable		
	Derived	false		
	Derived Union	false		
	Read Only	false		
	Static	false		
	Leaf	false		
	Project Management	Name	Value	
		Author	her_hod	
		Create Date Time	01.07.2015 12:59:40	
Abstract	false			
Leaf	false			
Visibility	Unspecified			
Derived	false			
Project Management	Name	Value		
	Author	her_hod		
	Create Date Time	01.07.2015 12:59:40		
	Last Modified	01.07.2015 13:08:25		

## ConfigGeneCode

Name		Value	
Active		false	
Business Key Mutable		true	
Java Detail		N/A	
Business Model		false	
Visibility		public	
Leaf		false	
Root		false	
Project Management	<b>Name</b>		<b>Value</b>
	Author		her_hod
	Create Date Time		01.07.2015 12:57:50
	Last Modified		01.07.2015 13:08:25



## Attributes

private serialVersionUID : long			
Initial Value	1L		
Type	 long		
Allow Empty Name	false		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Java Detail	N/A		
Aggregation	None		
Derived Union	false		
Read Only	false		
Is ID	false		
Leaf	false		
Project Management	Name		Value
	Author		her_hod
	Create Date Time		01.07.2015 12:57:51
	Last Modified		01.07.2015 13:08:25

private contentPanel : javax.swing.JScrollPane			
Type	javax.swing.JScrollPane		
Allow Empty Name	false		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Java Detail	N/A		
Aggregation	None		
Derived Union	false		
Read Only	false		
Is ID	false		
Leaf	false		
Project Management	Name		Value
	Author		her_hod
	Create Date Time		01.07.2015 12:57:51
	Last Modified		01.07.2015 13:08:25

private table : javax.swing.JTable			
Type	javax.swing.JTable		
Allow Empty Name	false		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		

Java Detail	N/A		
Aggregation	None		
Derived Union	false		
Read Only	false		
Is ID	false		
Leaf	false		
Project Management	<b>Name</b>	<b>Value</b>	
	Author	her_hod	
	Create Date Time	01.07.2015 12:57:51	
	Last Modified	01.07.2015 13:08:25	

package gc : GeneCode			
Type	GeneCode		
Allow Empty Name	false		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Java Detail	N/A		
Aggregation	None		
Derived Union	false		
Read Only	false		
Is ID	false		
Leaf	false		
Project Management	<b>Name</b>	<b>Value</b>	
	Author	her_hod	
	Create Date Time	01.07.2015 12:57:51	
	Last Modified	01.07.2015 13:08:25	

package okButton : javax.swing.JButton			
Type	javax.swing.JButton		
Allow Empty Name	false		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Java Detail	N/A		
Aggregation	None		
Derived Union	false		
Read Only	false		
Is ID	false		
Leaf	false		

Project Management	<b>Name</b>	<b>Value</b>
	Author	her_hod
	Create Date Time	01.07.2015 12:57:51
	Last Modified	01.07.2015 13:08:25

package gcname_in : javax.swing.JTextField			
Type	javax.swing.JTextField		
Allow Empty Name	false		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Java Detail	N/A		
Aggregation	None		
Derived Union	false		
Read Only	false		
Is ID	false		
Leaf	false		
Project Management	<b>Name</b>	<b>Value</b>	
	Author	her_hod	
	Create Date Time	01.07.2015 12:57:51	
	Last Modified	01.07.2015 13:08:25	

package cancelButton : javax.swing.JButton			
Type	javax.swing.JButton		
Allow Empty Name	false		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Java Detail	N/A		
Aggregation	None		
Derived Union	false		
Read Only	false		
Is ID	false		
Leaf	false		
Project Management	<b>Name</b>	<b>Value</b>	
	Author	her_hod	
	Create Date Time	01.07.2015 12:57:51	
	Last Modified	01.07.2015 13:08:25	

package colorChooser : javax.swing.JColorChooser	
Type	javax.swing.JColorChooser
Allow Empty Name	false

Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Java Detail	N/A		
Aggregation	None		
Derived Union	false		
Read Only	false		
Is ID	false		
Leaf	false		
Project Management	<b>Name</b>	<b>Value</b>	
	Author	her_hod	
	Create Date Time	01.07.2015 12:57:51	
	Last Modified	01.07.2015 13:08:25	

package colorFields : javax.swing.JLabel			
Type Modifier	[]		
Type	javax.swing.JLabel		
Allow Empty Name	false		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Java Detail	N/A		
Aggregation	None		
Derived Union	false		
Read Only	false		
Is ID	false		
Leaf	false		
Project Management	<b>Name</b>	<b>Value</b>	
	Author	her_hod	
	Create Date Time	01.07.2015 12:57:51	
	Last Modified	01.07.2015 13:08:25	

package complementsFields : javax.swing.JTextField			
Type Modifier	[]		
Type	javax.swing.JTextField		
Allow Empty Name	false		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Java Detail	N/A		
Aggregation	None		
Derived Union	false		

Read Only	false		
Is ID	false		
Leaf	false		
Project Management	<b>Name</b>	<b>Value</b>	
	Author	her_hod	
	Create Date Time	01.07.2015 12:57:51	
	Last Modified	01.07.2015 13:08:25	

package letterAddInfoFields : javax.swing.JPanel			
Type Modifier	[]		
Type	javax.swing.JPanel		
Allow Empty Name	false		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Java Detail	N/A		
Aggregation	None		
Derived Union	false		
Read Only	false		
Is ID	false		
Leaf	false		
Project Management	<b>Name</b>	<b>Value</b>	
	Author	her_hod	
	Create Date Time	01.07.2015 12:57:51	
	Last Modified	01.07.2015 13:08:25	

package alphabetAddInfoArea : javax.swing.JPanel			
Type	javax.swing.JPanel		
Allow Empty Name	false		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Java Detail	N/A		
Aggregation	None		
Derived Union	false		
Read Only	false		
Is ID	false		
Leaf	false		
Project Management	<b>Name</b>	<b>Value</b>	
	Author	her_hod	
	Create Date Time	01.07.2015 12:57:51	
	Last Modified	01.07.2015 13:08:25	

# Operations

public ConfigGeneCode ()		
Description	Create the dialog.	
Leaf	false	
Upper	1	
Ordered	false	
Unique	true	
Query	false	
Project Management	Name	Value
	Author	her_hod
	Create Date Time	01.07.2015 12:57:51
	Last Modified	01.07.2015 13:08:25

package setGeneCode (gc : GeneCode) : boolean			
Parameters	gc		
	Multiplicity	Unspecified	
	Type	GeneCode	
	Direction	inout	
	Java Detail	N/A	
	Project Management	Name	Value
		Author	her_hod
		Create Date Time	01.07.2015 12:57:51
		Last Modified	01.07.2015 13:08:25
Leaf	false		
Upper	1		
Ordered	false		
Unique	true		
Query	false		
Project Management	Name		Value
	Author		her_hod
	Create Date Time		01.07.2015 12:57:51
	Last Modified		01.07.2015 13:08:25

private createMenuBar () : void	
Leaf	false
Upper	1
Ordered	false
Unique	true
Query	false

Project Management	<b>Name</b>	<b>Value</b>
	Author	her_hod
	Create Date Time	01.07.2015 12:57:51
	Last Modified	01.07.2015 13:08:25

private saveCodeFile (f : String) : boolean			
Parameters	<b>f</b>		
	Multiplicity	Unspecified	
	Type	String	
	Direction	inout	
	Java Detail	N/A	
	Project Management	<b>Name</b>	<b>Value</b>
		Author	her_hod
		Create Date Time	01.07.2015 12:57:51
		Last Modified	01.07.2015 13:08:25
Leaf	false		
Upper	1		
Ordered	false		
Unique	true		
Query	false		
Project Management	<b>Name</b>	<b>Value</b>	
	Author	her_hod	
	Create Date Time	01.07.2015 12:57:51	
	Last Modified	01.07.2015 13:08:25	

private loadGeneCode (file : String) : GeneCode			
Parameters	<b>file</b>		
	Multiplicity	Unspecified	
	Type	String	
	Direction	inout	
	Java Detail	N/A	
	Project Management	<b>Name</b>	<b>Value</b>
		Author	her_hod
		Create Date Time	01.07.2015 12:57:51
		Last Modified	01.07.2015 13:08:25
Leaf	false		
Upper	1		
Ordered	false		
Unique	true		
Query	false		

Project Management	<b>Name</b>	<b>Value</b>
	Author	her_hod
	Create Date Time	01.07.2015 12:57:51
	Last Modified	01.07.2015 13:08:25

private createNewGeneCode () : void		
Leaf	false	
Upper	1	
Ordered	false	
Unique	true	
Query	false	
Project Management	<b>Name</b>	<b>Value</b>
	Author	her_hod
	Create Date Time	01.07.2015 12:57:51
	Last Modified	01.07.2015 13:08:25

private chooseFile () : String		
Leaf	false	
Upper	1	
Ordered	false	
Unique	true	
Query	false	
Project Management	<b>Name</b>	<b>Value</b>
	Author	her_hod
	Create Date Time	01.07.2015 12:57:51
	Last Modified	01.07.2015 13:08:25


public actionPerformed (ae : java.awt.event.ActionEvent) : void			
Parameters	<b>ae</b>		
	Multiplicity	Unspecified	
	Type	java.awt.event.ActionEvent	
	Direction	inout	
	Java Detail	N/A	
	Project Management	<b>Name</b>	<b>Value</b>
		Author	her_hod
		Create Date Time	01.07.2015 12:57:51
		Last Modified	01.07.2015 13:08:25
Leaf	false		
Upper	1		
Ordered	false		
Unique	true		
Query	false		



Project Management	<b>Name</b>	<b>Value</b>
	Author	her_hod
	Create Date Time	01.07.2015 12:57:51
	Last Modified	01.07.2015 13:08:25

private readTable () : void		
Description	read table in the GeneCode Hashtable	
Leaf	false	
Upper	1	
Ordered	false	
Unique	true	
Query	false	
Project Management	<b>Name</b>	<b>Value</b>
	Author	her_hod
	Create Date Time	01.07.2015 12:57:51
	Last Modified	01.07.2015 13:08:25

public getGeneCode () : GeneCode		
Leaf	false	
Upper	1	
Ordered	false	
Unique	true	
Query	false	
Project Management	<b>Name</b>	<b>Value</b>
	Author	her_hod
	Create Date Time	01.07.2015 12:57:51
	Last Modified	01.07.2015 13:08:25

private chooseColor (index : int) : void			
Parameters	<b>index</b>		
	Multiplicity	Unspecified	
	Type	 int	
	Direction	inout	
	Java Detail	N/A	
	Project Management	<b>Name</b>	<b>Value</b>
		Author	her_hod
		Create Date Time	01.07.2015 12:57:51
		Last Modified	01.07.2015 13:08:25
Leaf	false		
Upper	1		
Ordered	false		
Unique	true		

Query	false	
Project Management	<b>Name</b>	<b>Value</b>
	Author	her_hod
	Create Date Time	01.07.2015 12:57:51
	Last Modified	01.07.2015 13:08:25

public mouseClicked (e : java.awt.event.MouseEvent) : void		
Parameters	<b>e</b>	
	Multiplicity	Unspecified
	Type	java.awt.event.MouseEvent
	Direction	inout
	Java Detail	N/A
	Project Management	<b>Name</b>
		<b>Value</b>
		Author
		her_hod
	Project Management	Create Date Time
		01.07.2015 12:57:51
		Last Modified
		01.07.2015 13:08:25
Leaf	false	
Upper	1	
Ordered	false	
Unique	true	
Query	false	
Project Management	<b>Name</b>	<b>Value</b>
	Author	her_hod
	Create Date Time	01.07.2015 12:57:51
	Last Modified	01.07.2015 13:08:25

public mousePressed (e : java.awt.event.MouseEvent) : void		
Parameters	<b>e</b>	
	Multiplicity	Unspecified
	Type	java.awt.event.MouseEvent
	Direction	inout
	Java Detail	N/A
	Project Management	<b>Name</b>
		<b>Value</b>
		Author
		her_hod
	Project Management	Create Date Time
		01.07.2015 12:57:51
		Last Modified
		01.07.2015 13:08:25
Leaf	false	
Upper	1	
Ordered	false	
Unique	true	
Query	false	

Project Management	<b>Name</b>	<b>Value</b>
	Author	her_hod
	Create Date Time	01.07.2015 12:57:51
	Last Modified	01.07.2015 13:08:25

public mouseReleased (e : java.awt.event.MouseEvent) : void			
Parameters	<b>e</b>		
	Multiplicity	Unspecified	
	Type	java.awt.event.MouseEvent	
	Direction	inout	
	Java Detail	N/A	
	Project Management	<b>Name</b>	<b>Value</b>
		Author	her_hod
		Create Date Time	01.07.2015 12:57:51
		Last Modified	01.07.2015 13:08:25
Leaf	false		
Upper	1		
Ordered	false		
Unique	true		
Query	false		
Project Management	<b>Name</b>	<b>Value</b>	
	Author	her_hod	
	Create Date Time	01.07.2015 12:57:51	
	Last Modified	01.07.2015 13:08:25	

public mouseEntered (e : java.awt.event.MouseEvent) : void			
Parameters	<b>e</b>		
	Multiplicity	Unspecified	
	Type	java.awt.event.MouseEvent	
	Direction	inout	
	Java Detail	N/A	
	Project Management	<b>Name</b>	<b>Value</b>
		Author	her_hod
		Create Date Time	01.07.2015 12:57:51
		Last Modified	01.07.2015 13:08:25
Leaf	false		
Upper	1		
Ordered	false		
Unique	true		
Query	false		

Project Management	Name	Value
	Author	her_hod
	Create Date Time	01.07.2015 12:57:51
	Last Modified	01.07.2015 13:08:25

public mouseExited (e : java.awt.event.MouseEvent) : void			
Parameters	e		
	Multiplicity	Unspecified	
	Type	java.awt.event.MouseEvent	
	Direction	inout	
	Java Detail	N/A	
	Project Management	Name	Value
		Author	her_hod
		Create Date Time	01.07.2015 12:57:51
		Last Modified	01.07.2015 13:08:25
Leaf	false		
Upper	1		
Ordered	false		
Unique	true		
Query	false		
Project Management	Name	Value	
	Author	her_hod	
	Create Date Time	01.07.2015 12:57:51	
	Last Modified	01.07.2015 13:08:25	

## GeneticQuiz

Name	Value	
Active	false	
Business Key Mutable	true	
Java Detail	N/A	
Business Model	false	
Visibility	public	
Leaf	false	
Root	false	
Project Management	Name	Value
	Author	her_hod
	Create Date Time	01.07.2015 12:59:11
	Last Modified	01.07.2015 13:08:25

## Attributes

package codeText : javax.swing.JTextPane
--

Type	javax.swing.JTextPane		
Allow Empty Name	false		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Java Detail	N/A		
Aggregation	None		
Derived Union	false		
Read Only	false		
Is ID	false		
Leaf	false		
Project Management	<b>Name</b>	<b>Value</b>	
	Author	her_hod	
	Create Date Time	01.07.2015 12:59:11	
	Last Modified	01.07.2015 13:08:25	

package status : javax.swing.JLabel			
Type	javax.swing.JLabel		
Allow Empty Name	false		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Java Detail	N/A		
Aggregation	None		
Derived Union	false		
Read Only	false		
Is ID	false		
Leaf	false		
Project Management	<b>Name</b>	<b>Value</b>	
	Author	her_hod	
	Create Date Time	01.07.2015 12:59:11	
	Last Modified	01.07.2015 13:08:25	

package rightTranslation : String			
Initial Value	""		
Type	String		
Allow Empty Name	false		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Java Detail	N/A		
Aggregation	None		

Derived Union	false		
Read Only	false		
Is ID	false		
Leaf	false		
Project Management	<b>Name</b>	<b>Value</b>	
	Author	her_hod	
	Create Date Time	01.07.2015 12:59:11	
	Last Modified	01.07.2015 13:08:25	

package I : javax.swing.JComboBox			
Template Type Bind Info	N/A		
Type	javax.swing.JComboBox		
Allow Empty Name	false		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Java Detail	N/A		
Aggregation	None		
Derived Union	false		
Read Only	false		
Is ID	false		
Leaf	false		
Project Management	<b>Name</b>	<b>Value</b>	
	Author	her_hod	
	Create Date Time	01.07.2015 12:59:11	
	Last Modified	01.07.2015 13:08:25	

package codeSelectionCB : javax.swing.JComboBox			
Template Type Bind Info	N/A		
Type	javax.swing.JComboBox		
Allow Empty Name	false		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Java Detail	N/A		
Aggregation	None		
Derived Union	false		
Read Only	false		
Is ID	false		
Leaf	false		

Project Management	<b>Name</b>	<b>Value</b>
	Author	her_hod
	Create Date Time	01.07.2015 12:59:11
	Last Modified	01.07.2015 13:08:25

package complCB : javax.swing.JCheckBox			
Type	javax.swing.JCheckBox		
Allow Empty Name	false		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Java Detail	N/A		
Aggregation	None		
Derived Union	false		
Read Only	false		
Is ID	false		
Leaf	false		
Project Management	<b>Name</b>	<b>Value</b>	
	Author	her_hod	
	Create Date Time	01.07.2015 12:59:11	
	Last Modified	01.07.2015 13:08:25	

package showImageCB : javax.swing.JCheckBox			
Type	javax.swing.JCheckBox		
Allow Empty Name	false		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Java Detail	N/A		
Aggregation	None		
Derived Union	false		
Read Only	false		
Is ID	false		
Leaf	false		
Project Management	<b>Name</b>	<b>Value</b>	
	Author	her_hod	
	Create Date Time	01.07.2015 12:59:11	
	Last Modified	01.07.2015 13:08:25	

package translText : javax.swing.JTextPane	
Type	javax.swing.JTextPane
Allow Empty Name	false

Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Java Detail	N/A		
Aggregation	None		
Derived Union	false		
Read Only	false		
Is ID	false		
Leaf	false		
Project Management	<b>Name</b>	<b>Value</b>	
	Author	her_hod	
	Create Date Time	01.07.2015 12:59:11	
	Last Modified	01.07.2015 13:08:25	

package transITextSolve : javax.swing.JTextPane			
Type	javax.swing.JTextPane		
Allow Empty Name	false		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Java Detail	N/A		
Aggregation	None		
Derived Union	false		
Read Only	false		
Is ID	false		
Leaf	false		
Project Management	<b>Name</b>	<b>Value</b>	
	Author	her_hod	
	Create Date Time	01.07.2015 12:59:11	
	Last Modified	01.07.2015 13:08:25	

package configGC : javax.swing.JButton			
Type	javax.swing.JButton		
Allow Empty Name	false		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Java Detail	N/A		
Aggregation	None		
Derived Union	false		
Read Only	false		
Is ID	false		



Leaf	false		
Project Management	<b>Name</b>	<b>Value</b>	
	Author	her_hod	
	Create Date Time	01.07.2015 12:59:11	
	Last Modified	01.07.2015 13:08:25	

package lengthList : Integer			
Initial Value	new Integer []{5,10,15,20,25,30}		
Type Modifier	[]		
Type	Integer		
Allow Empty Name	false		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Java Detail	N/A		
Aggregation	None		
Derived Union	false		
Read Only	false		
Is ID	false		
Leaf	false		
Project Management	<b>Name</b>	<b>Value</b>	
	Author	her_hod	
	Create Date Time	01.07.2015 12:59:11	
	Last Modified	01.07.2015 13:08:25	

package codonInfo : javax.swing.JTextField			
Type	javax.swing.JTextField		
Allow Empty Name	false		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Java Detail	N/A		
Aggregation	None		
Derived Union	false		
Read Only	false		
Is ID	false		
Leaf	false		
Project Management	<b>Name</b>	<b>Value</b>	
	Author	her_hod	
	Create Date Time	01.07.2015 12:59:11	
	Last Modified	01.07.2015 13:08:25	

package imagePanel : javax.swing.JPanel			
Type	javax.swing.JPanel		
Allow Empty Name	false		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Java Detail	N/A		
Aggregation	None		
Derived Union	false		
Read Only	false		
Is ID	false		
Leaf	false		
Project Management	Name	Value	
	Author	her_hod	
	Create Date Time	01.07.2015 12:59:11	
	Last Modified	01.07.2015 13:08:25	

package subCodesPanel : javax.swing.JPanel			
Description	Panel, die kleinen Bilder der nextCodes zeigt		
Type	javax.swing.JPanel		
Allow Empty Name	false		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Java Detail	N/A		
Aggregation	None		
Derived Union	false		
Read Only	false		
Is ID	false		
Leaf	false		
Project Management	Name	Value	
	Author	her_hod	
	Create Date Time	01.07.2015 12:59:11	
	Last Modified	01.07.2015 13:08:25	


package imageCodeSun : ImagePanel			
Type	ImagePanel		
Allow Empty Name	false		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Java Detail	N/A		


Aggregation	None		
Derived Union	false		
Read Only	false		
Is ID	false		
Leaf	false		
Project Management	<b>Name</b>	<b>Value</b>	
	Author	her_hod	
	Create Date Time	01.07.2015 12:59:11	
	Last Modified	01.07.2015 13:08:25	

package imageCodeSunSubs : javax.swing.JButton			
Type Modifier	[]		
Type	javax.swing.JButton		
Allow Empty Name	false		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Java Detail	N/A		
Aggregation	None		
Derived Union	false		
Read Only	false		
Is ID	false		
Leaf	false		
Project Management	<b>Name</b>	<b>Value</b>	
	Author	her_hod	
	Create Date Time	01.07.2015 12:59:11	
	Last Modified	01.07.2015 13:08:25	

package subImagesButtons : java.util.ArrayList			
Template Type Bind Info	N/A		
Type	java.util.ArrayList		
Allow Empty Name	false		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Java Detail	N/A		
Aggregation	None		
Derived Union	false		
Read Only	false		
Is ID	false		
Leaf	false		


Project Management	<b>Name</b>	<b>Value</b>
	Author	her_hod
	Create Date Time	01.07.2015 12:59:11
	Last Modified	01.07.2015 13:08:25


package newCodechosen : boolean			
Type	 boolean		
Allow Empty Name	false		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Java Detail	N/A		
Aggregation	None		
Derived Union	false		
Read Only	false		
Is ID	false		
Leaf	false		
Project Management	<b>Name</b>	<b>Value</b>	
	Author	her_hod	
	Create Date Time	01.07.2015 12:59:11	
	Last Modified	01.07.2015 13:08:25	

private dnaGen : DnaGenerator			
Initial Value	new DnaGenerator()		
Type	 DnaGenerator		
Allow Empty Name	false		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Java Detail	N/A		
Aggregation	None		
Derived Union	false		
Read Only	false		
Is ID	false		
Leaf	false		
Project Management	<b>Name</b>	<b>Value</b>	
	Author	her_hod	
	Create Date Time	01.07.2015 12:59:11	
	Last Modified	01.07.2015 13:08:25	

package gencodes : GeneCode	
Type	 GeneCode

Allow Empty Name	false		
Getter	false	Setter	false
Derived	false		
Multiplicity	*		
Java Detail	N/A		
Aggregation	None		
Derived Union	false		
Read Only	false		
Is ID	false		
Leaf	false		
Project Management	<b>Name</b>	<b>Value</b>	
	Author	her_hod	
	Create Date Time	01.07.2015 12:59:11	
	Last Modified	01.07.2015 13:08:25	

package currentGC : GeneCode			
Description	aktueller Gene code		
Type	 GeneCode		
Allow Empty Name	false		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Java Detail	N/A		
Aggregation	None		
Derived Union	false		
Read Only	false		
Is ID	false		
Leaf	false		
Project Management	<b>Name</b>	<b>Value</b>	
	Author	her_hod	
	Create Date Time	01.07.2015 12:59:11	
	Last Modified	01.07.2015 13:08:25	

package choosenGC : GeneCode			
Type	 GeneCode		
Allow Empty Name	false		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Java Detail	N/A		
Aggregation	None		
Derived Union	false		

Read Only	false	
Is ID	false	
Leaf	false	
Project Management	<b>Name</b>	<b>Value</b>
	Author	her_hod
	Create Date Time	01.07.2015 12:59:11
	Last Modified	01.07.2015 13:08:25

## Operations

public GeneticQuiz ()		
Leaf	false	
Upper	1	
Ordered	false	
Unique	true	
Query	false	
Project Management	<b>Name</b>	<b>Value</b>
	Author	her_hod
	Create Date Time	01.07.2015 12:59:11
	Last Modified	01.07.2015 13:08:25

private fillComboBox () : void		
Leaf	false	
Upper	1	
Ordered	false	
Unique	true	
Query	false	
Project Management	<b>Name</b>	<b>Value</b>
	Author	her_hod
	Create Date Time	01.07.2015 12:59:11
	Last Modified	01.07.2015 13:08:25

protected configurateGeneCode () : void		
Leaf	false	
Upper	1	
Ordered	false	
Unique	true	
Query	false	
Project Management	<b>Name</b>	<b>Value</b>
	Author	her_hod
	Create Date Time	01.07.2015 12:59:11
	Last Modified	01.07.2015 13:08:25

protected createStringToTranslate () : void		
Leaf	false	
Upper	1	
Ordered	false	
Unique	true	
Query	false	
Project Management	Name	Value
	Author	her_hod
	Create Date Time	01.07.2015 12:59:11
	Last Modified	01.07.2015 13:08:25

protected evaluate () : void		
Leaf	false	
Upper	1	
Ordered	false	
Unique	true	
Query	false	
Project Management	Name	Value
	Author	her_hod
	Create Date Time	01.07.2015 12:59:11
	Last Modified	01.07.2015 13:08:25

private createStandardCodes () : void		
Leaf	false	
Upper	1	
Ordered	false	
Unique	true	
Query	false	
Project Management	Name	Value
	Author	her_hod
	Create Date Time	01.07.2015 12:59:11
	Last Modified	01.07.2015 13:08:25

private readCodeFiles (dir : java.io.File) : void		
---	--	--

Parameters	dir		
	Multiplicity	Unspecified	
	Type	java.io.File	
	Direction	inout	
	Java Detail	N/A	
	Project Management	Name	Value
		Author	her_hod
		Create Date Time	01.07.2015 12:59:11
		Last Modified	01.07.2015 13:08:25
Leaf	false		
Upper	1		
Ordered	false		
Unique	true		
Query	false		
Project Management	Name		Value
	Author		her_hod
	Create Date Time		01.07.2015 12:59:11
	Last Modified		01.07.2015 13:08:25

<b>public mouseClicked (e : java.awt.event.MouseEvent) : void</b>			
Parameters	<b>e</b>		
	Multiplicity	Unspecified	
	Type	java.awt.event.MouseEvent	
	Direction	inout	
	Java Detail	N/A	
	Project Management	<b>Name</b>	<b>Value</b>
		Author	her_hod
		Create Date Time	01.07.2015 12:59:11
		Last Modified	01.07.2015 13:08:25
Leaf	false		
Upper	1		
Ordered	false		
Unique	true		
Query	false		
Project Management	<b>Name</b>	<b>Value</b>	
	Author	her_hod	
	Create Date Time	01.07.2015 12:59:11	
	Last Modified	01.07.2015 13:08:25	

**public mousePressed (e : java.awt.event.MouseEvent) : void**



Parameters	<b>e</b>		
	Multiplicity	Unspecified	
	Type	java.awt.event.MouseEvent	
	Direction	inout	
	Java Detail	N/A	
	Project Management	<b>Name</b>	<b>Value</b>
		Author	her_hod
		Create Date Time	01.07.2015 12:59:11
		Last Modified	01.07.2015 13:08:25
Leaf	false		
Upper	1		
Ordered	false		
Unique	true		
Query	false		
Project Management	<b>Name</b>		<b>Value</b>
	Author		her_hod
	Create Date Time		01.07.2015 12:59:11
	Last Modified		01.07.2015 13:08:25


<b>public mouseReleased (e : java.awt.event.MouseEvent) : void</b>			
Parameters	<b>e</b>		
	Multiplicity	Unspecified	
	Type	java.awt.event.MouseEvent	
	Direction	inout	
	Java Detail	N/A	
	Project Management	<b>Name</b>	<b>Value</b>
		Author	her_hod
		Create Date Time	01.07.2015 12:59:11
		Last Modified	01.07.2015 13:08:25
Leaf	false		
Upper	1		
Ordered	false		
Unique	true		
Query	false		
Project Management	<b>Name</b>		<b>Value</b>
	Author		her_hod
	Create Date Time		01.07.2015 12:59:11
	Last Modified		01.07.2015 13:08:25

**public mouseEntered (e : java.awt.event.MouseEvent) : void**

Parameters	<b>e</b>		
	Multiplicity	Unspecified	
	Type	java.awt.event.MouseEvent	
	Direction	inout	
	Java Detail	N/A	
	Project Management	<b>Name</b>	<b>Value</b>
		Author	her_hod
		Create Date Time	01.07.2015 12:59:11
		Last Modified	01.07.2015 13:08:25
Leaf	false		
Upper	1		
Ordered	false		
Unique	true		
Query	false		
Project Management	<b>Name</b>		<b>Value</b>
	Author		her_hod
	Create Date Time		01.07.2015 12:59:11
	Last Modified		01.07.2015 13:08:25

<b>public mouseExited (e : java.awt.event.MouseEvent) : void</b>			
Parameters	<b>e</b>		
	Multiplicity	Unspecified	
	Type	java.awt.event.MouseEvent	
	Direction	inout	
	Java Detail	N/A	
	Project Management	<b>Name</b>	<b>Value</b>
		Author	her_hod
		Create Date Time	01.07.2015 12:59:11
		Last Modified	01.07.2015 13:08:25
Leaf	false		
Upper	1		
Ordered	false		
Unique	true		
Query	false		
Project Management	<b>Name</b>		<b>Value</b>
	Author		her_hod
	Create Date Time		01.07.2015 12:59:11
	Last Modified		01.07.2015 13:08:25

**public addGeneCode (geneCode : GeneCode) : void**

Parameters	geneCode		
	Multiplicity	Unspecified	
	Type	 GeneCode	
	Direction	inout	
	Java Detail	N/A	
	Project Management	Name	Value
		Author	her_hod
		Create Date Time	01.07.2015 12:59:11
		Last Modified	01.07.2015 13:08:25
Leaf	false		
Upper	1		
Ordered	false		
Unique	true		
Query	false		
Project Management	Name		Value
	Author		her_hod
	Create Date Time		01.07.2015 12:59:11
	Last Modified		01.07.2015 13:08:25

public itemStateChanged (e : java.awt.event.ItemEvent) : void			
Parameters	e		
	Multiplicity	Unspecified	
	Type	java.awt.event.ItemEvent	
	Direction	inout	
	Java Detail	N/A	
	Project Management	Name	Value
		Author	her_hod
		Create Date Time	01.07.2015 12:59:11
		Last Modified	01.07.2015 13:08:25
Leaf	false		
Upper	1		
Ordered	false		
Unique	true		
Query	false		
Project Management	Name		Value
	Author		her_hod
	Create Date Time		01.07.2015 12:59:11
	Last Modified		01.07.2015 13:08:25



<b>private updateView () : void</b>	
Leaf	false
Upper	1



Ordered	false	
Unique	true	
Query	false	
Project Management	<b>Name</b>	<b>Value</b>
	Author	her_hod
	Create Date Time	01.07.2015 12:59:11
	Last Modified	01.07.2015 13:08:25

public actionPerformed (e : java.awt.event.ActionEvent) : void		
Parameters	<b>e</b>	
	Multiplicity	Unspecified
	Type	java.awt.event.ActionEvent
	Direction	inout
	Java Detail	N/A
	Project Management	<b>Name</b>
		<b>Value</b>
		Author
		her_hod
		Create Date Time
		01.07.2015 12:59:11
		Last Modified
		01.07.2015 13:08:25
Leaf	false	
Upper	1	
Ordered	false	
Unique	true	
Query	false	
Project Management	<b>Name</b>	<b>Value</b>
	Author	her_hod
	Create Date Time	01.07.2015 12:59:11
	Last Modified	01.07.2015 13:08:25



## Relationships

Unnamed Association
---------------------



To (dnaGen)	Name		Value			
	End Model Element		 DnaGenerator			
	Representative Attribute		dnaGen			
	Provide Property Getter Method		false			
	Provide Property Setter Method		false			
	Multiplicity		Unspecified			
	Visibility		private			
	Aggregation Kind		None			
	Navigable		Navigable			
	Derived		false			
	Default Value		new DnaGenerator()			
	Derived Union		false			
	Read Only		false			
	Static		false			
	Leaf		false			
	Type		 DnaGenerator			
	Project Management		Name		Value	
			Author		her_hod	
			Create Date Time		01.07.2015 12:59:11	
Abstract		false				
Leaf		false				
Visibility		Unspecified				
Derived		false				
Project Management		Name		Value		
		Author		her_hod		
		Create Date Time		01.07.2015 12:59:11		
		Last Modified		01.07.2015 13:08:25		
Unnamed Association						

To (gencodes)	Name		Value	
	End Model Element		 GeneCode	
	Representative Attribute		gencodes	
	Provide Property Getter Method		false	
	Provide Property Setter Method		false	
	Multiplicity		*	
	Visibility		package	
	Aggregation Kind		None	
	Navigable		Navigable	
	Derived		false	
	Derived Union		false	
	Read Only		false	
	Static		false	
	Leaf		false	
	Type		 GeneCode	
	Project Management		Name	Value
			Author	her_hod
			Create Date Time	01.07.2015 12:59:11
Abstract	false			
Leaf	false			
Visibility	Unspecified			
Derived	false			
Project Management	Name		Value	
	Author		her_hod	
	Create Date Time		01.07.2015 12:59:11	
	Last Modified		01.07.2015 13:08:25	

Unnamed Association

To (currentGC)	Name		Value	
	End Model Element		 GeneCode	
	Description		aktueller Gene code	
	Representative Attribute		currentGC	
	Provide Property Getter Method		false	
	Provide Property Setter Method		false	
	Multiplicity		Unspecified	
	Visibility		package	
	Aggregation Kind		None	
	Navigable		Navigable	
	Derived		false	
	Derived Union		false	
	Read Only		false	
	Static		false	
	Leaf		false	
	Type		 GeneCode	
	Project Management		Name	Value
			Author	her_hod
			Create Date Time	01.07.2015 12:59:11
Abstract	false			
Leaf	false			
Visibility	Unspecified			
Derived	false			
Project Management	Name		Value	
	Author		her_hod	
	Create Date Time		01.07.2015 12:59:11	
	Last Modified		01.07.2015 13:08:25	

Unnamed Association

To (chosenGC)	<b>Name</b>	<b>Value</b>	
	End Model Element	 GeneCode	
	Representative Attribute	chosenGC	
	Provide Property Getter Method	false	
	Provide Property Setter Method	false	
	Multiplicity	Unspecified	
	Visibility	package	
	Aggregation Kind	None	
	Navigable	Navigable	
	Derived	false	
	Derived Union	false	
	Read Only	false	
	Static	false	
	Leaf	false	
	Type	 GeneCode	
	Project Management	<b>Name</b>	<b>Value</b>
		Author	her_hod
		Create Date Time	01.07.2015 12:59:11
Abstract	false		
Leaf	false		
Visibility	Unspecified		
Derived	false		
Project Management	<b>Name</b>	<b>Value</b>	
	Author	her_hod	
	Create Date Time	01.07.2015 12:59:11	
	Last Modified	01.07.2015 13:08:25	

## ImagePanel

Name	Value
Active	false
Business Key Mutable	true
Java Detail	N/A
Business Model	false
Visibility	package
Leaf	false
Root	false



Project Management	Name	Value
	Author	her_hod
	Create Date Time	01.07.2015 12:59:30
	Last Modified	01.07.2015 13:08:25

## Attributes

private img : java.awt.image.BufferedImage			
Initial Value	null		
Type	java.awt.image.BufferedImage		
Allow Empty Name	false		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Java Detail	N/A		
Aggregation	None		
Derived Union	false		
Read Only	false		
Is ID	false		
Leaf	false		
Project Management	Name	Value	
	Author	her_hod	
	Create Date Time	01.07.2015 12:59:30	
	Last Modified	01.07.2015 13:08:25	

## Operations

public ImagePanel ()		
Leaf	false	
Upper	1	
Ordered	false	
Unique	true	
Query	false	
Project Management	Name	Value
	Author	her_hod
	Create Date Time	01.07.2015 12:59:30
	Last Modified	01.07.2015 13:08:25

public ImagePanel (i : java.awt.image.BufferedImage)
--

Parameters	<b>i</b>		
	Multiplicity	Unspecified	
	Type	java.awt.image.BufferedImage	
	Direction	inout	
	Java Detail	N/A	
	Project Management	<b>Name</b>	<b>Value</b>
		Author	her_hod
		Create Date Time	01.07.2015 12:59:30
		Last Modified	01.07.2015 13:08:25
Leaf	false		
Upper	1		
Ordered	false		
Unique	true		
Query	false		
Project Management	<b>Name</b>		<b>Value</b>
	Author		her_hod
	Create Date Time		01.07.2015 12:59:30
	Last Modified		01.07.2015 13:08:25

<b>public setImage (bi : java.awt.image.BufferedImage) : void</b>			
Parameters	<b>bi</b>		
	Multiplicity	Unspecified	
	Type	java.awt.image.BufferedImage	
	Direction	inout	
	Java Detail	N/A	
	Project Management	<b>Name</b>	<b>Value</b>
		Author	her_hod
		Create Date Time	01.07.2015 12:59:30
		Last Modified	01.07.2015 13:08:25
Leaf	false		
Upper	1		
Ordered	false		
Unique	true		
Query	false		
Project Management	<b>Name</b>		<b>Value</b>
	Author		her_hod
	Create Date Time		01.07.2015 12:59:30
	Last Modified		01.07.2015 13:08:25

**protected paintComponent (g : java.awt.Graphics) : void**

Parameters	<b>g</b>		
	Multiplicity	Unspecified	
	Type	java.awt.Graphics	
	Direction	inout	
	Java Detail	N/A	
	Project Management	<b>Name</b>	<b>Value</b>
		Author	her_hod
		Create Date Time	01.07.2015 12:59:30
		Last Modified	01.07.2015 13:08:25
Leaf	false		
Upper	1		
Ordered	false		
Unique	true		
Query	false		
Project Management	<b>Name</b>	<b>Value</b>	
	Author	her_hod	
	Create Date Time	01.07.2015 12:59:30	
	Last Modified	01.07.2015 13:08:25	

## NewGCDialog


Name	Value	
Active	false	
Business Key Mutable	true	
Java Detail	N/A	
Business Model	false	
Visibility	public	
Leaf	false	
Root	false	
Project Management	<b>Name</b>	<b>Value</b>
	Author	her_hod
	Create Date Time	01.07.2015 12:59:40
	Last Modified	01.07.2015 13:08:25

## Attributes

package at : javax.swing.JTextField			
Type	javax.swing.JTextField		
Allow Empty Name	false		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Java Detail	N/A		

Aggregation	None		
Derived Union	false		
Read Only	false		
Is ID	false		
Leaf	false		
Project Management	<b>Name</b>	<b>Value</b>	
	Author	her_hod	
	Create Date Time	01.07.2015 12:59:40	
	Last Modified	01.07.2015 13:08:25	

package It : javax.swing.JTextField			
Type	javax.swing.JTextField		
Allow Empty Name	false		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Java Detail	N/A		
Aggregation	None		
Derived Union	false		
Read Only	false		
Is ID	false		
Leaf	false		
Project Management	<b>Name</b>	<b>Value</b>	
	Author	her_hod	
	Create Date Time	01.07.2015 12:59:40	
	Last Modified	01.07.2015 13:08:25	

package gc : GeneCode			
Type	 GeneCode		
Allow Empty Name	false		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Java Detail	N/A		
Aggregation	None		
Derived Union	false		
Read Only	false		
Is ID	false		
Leaf	false		

Project Management	<b>Name</b>	<b>Value</b>
	Author	her_hod
	Create Date Time	01.07.2015 12:59:40
	Last Modified	01.07.2015 13:08:25

## Operations

public NewGCDialog ()		
Leaf	false	
Upper	1	
Ordered	false	
Unique	true	
Query	false	
Project Management	<b>Name</b>	<b>Value</b>
	Author	her_hod
	Create Date Time	01.07.2015 12:59:40
	Last Modified	01.07.2015 13:08:25



private createLabel () : void		
Leaf	false	
Upper	1	
Ordered	false	
Unique	true	
Query	false	
Project Management	<b>Name</b>	<b>Value</b>
	Author	her_hod
	Create Date Time	01.07.2015 12:59:40
	Last Modified	01.07.2015 13:08:25

private createGC () : void		
Leaf	false	
Upper	1	
Ordered	false	
Unique	true	
Query	false	
Project Management	<b>Name</b>	<b>Value</b>
	Author	her_hod
	Create Date Time	01.07.2015 12:59:40
	Last Modified	01.07.2015 13:08:25

public getResult () : GeneCode	
Leaf	false
Upper	1

Ordered	false	
Unique	true	
Query	false	
Project Management	<b>Name</b>	<b>Value</b>
	Author	her_hod
	Create Date Time	01.07.2015 12:59:40
	Last Modified	01.07.2015 13:08:25

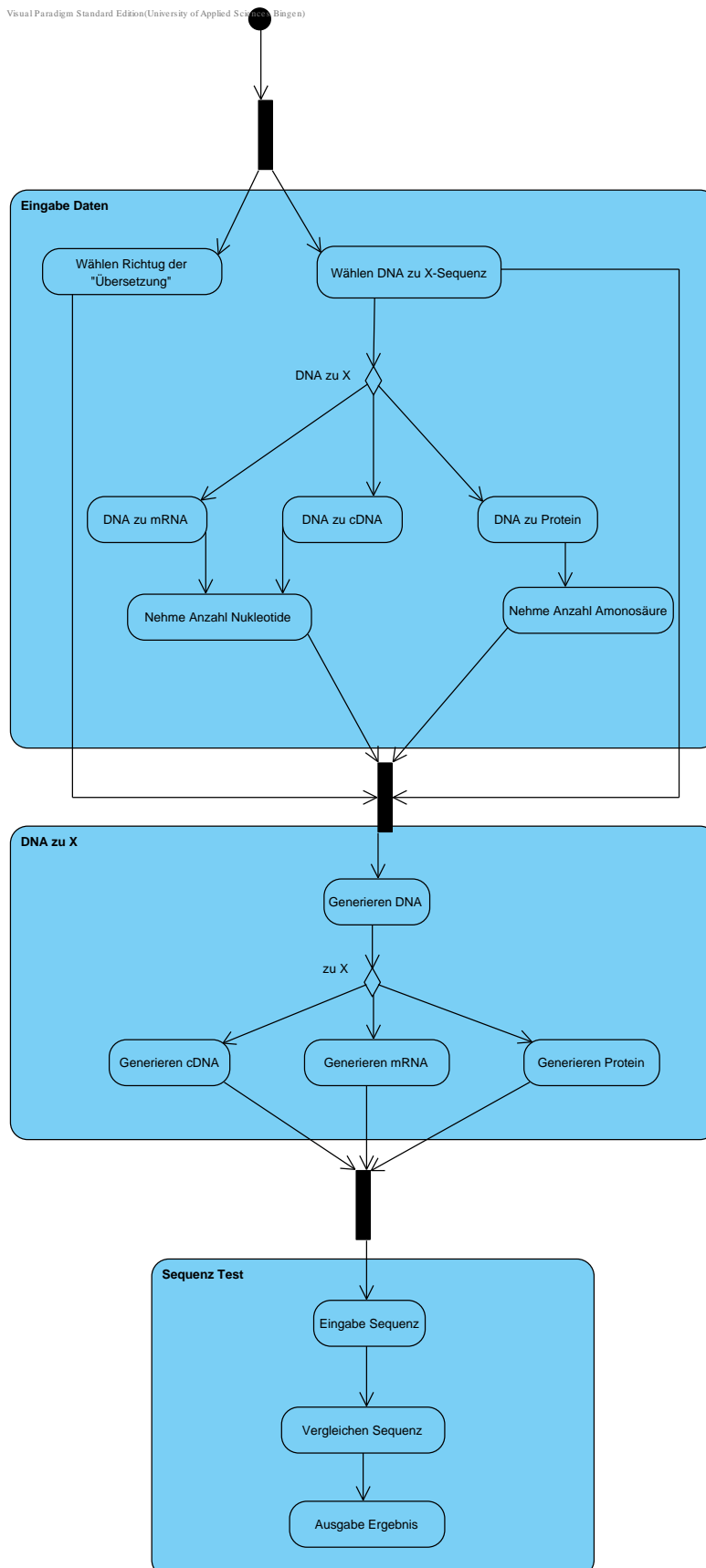
## Relationships

Unnamed Association		
To (gc)	<b>Name</b>	<b>Value</b>
	End Model Element	 GeneCode
	Representative Attribute	gc
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	package
	Aggregation Kind	None
	Navigable	Navigable
	Derived	false
	Derived Union	false
	Read Only	false
	Static	false
	Leaf	false
	Type	 GeneCode
	Project Management	<b>Name</b>
		<b>Value</b>
		Author
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	
Project Management	<b>Name</b>	<b>Value</b>
	Author	her_hod
	Create Date Time	01.07.2015 12:59:40
	Last Modified	01.07.2015 13:08:25

## Activity Diagram




















# GenetikTest\_AD

Visual Paradigm Standard Edition (University of Applied Sciences Bingen)



Name	Value
Name	GenetikTest_AD
Author	her_hod
Create Date Time	05.07.2015 20:38:36
Last Modified	05.07.2015 21:43:48
Show Activity Edge Weight	true

## Summary

Name	Description
 Wählen Richtug der "Übersetzung"	
 Eingabe Daten	
 Wählen DNA zu X-Sequenz	
 DNA zu X	
 DNA zu mRNA	
 DNA zu cDNA	
 Nehme Anzahl Nukleotide	
 DNA zu Protein	
 Nehme Anzahl Amonosäure	
 Generieren DNA	
 DNA zu X	
 zu X	
 Generieren cDNA	
 Generieren mRNA	
 Generieren Protein	
 Eingabe Sequenz	
 Sequenz Test	
 Vergleichen Sequenz	
 Ausgabe Ergebnis	

## Details

● N/A



Name	Value	
Must Isolate	false	
Leaf	false	
Visibility	Unspecified	
Project Management	Name	Value
	Author	her_hod
	Create Date Time	05.07.2015 20:46:49
	Last Modified	05.07.2015 21:13:16



 N/A

Name	Value	
Must Isolate	false	
Leaf	false	
Visibility	Unspecified	
Project Management	Name	Value
	Author	her_hod
	Create Date Time	05.07.2015 21:07:41
	Last Modified	05.07.2015 21:13:16

## Relationships

Unnamed Control Flow		
To	 Wählen Richtug der "Übersetzung"	
Leaf	false	
Visibility	Unspecified	
Project Management	Name	Value
	Author	her_hod
	Create Date Time	05.07.2015 21:07:55
	Last Modified	05.07.2015 21:24:08
Unnamed Control Flow		
To	 Wählen DNA zu X-Sequenz	
Leaf	false	
Visibility	Unspecified	
Project Management	Name	Value
	Author	her_hod
	Create Date Time	05.07.2015 21:07:58
	Last Modified	05.07.2015 21:24:08

## Wählen Richtug der "Übersetzung"

Name	Value	
Must Isolate	false	
Leaf	false	
Visibility	Unspecified	
Project Management	Name	Value
	Author	her_hod
	Create Date Time	05.07.2015 20:49:00
	Last Modified	05.07.2015 21:43:15

## Relationships

Unnamed Control Flow		
----------------------	--	--

To	N/A	
Leaf	false	
Visibility	Unspecified	
Project Management	<b>Name</b>	<b>Value</b>
	Author	her_hod
	Create Date Time	05.07.2015 21:34:58
	Last Modified	05.07.2015 21:43:15
<b>Unnamed Control Flow</b>		
From	N/A	
Leaf	false	
Visibility	Unspecified	
Project Management	<b>Name</b>	<b>Value</b>
	Author	her_hod
	Create Date Time	05.07.2015 21:07:55
	Last Modified	05.07.2015 21:24:08

## Eingabe Daten

Name	Value	
Reentrant	false	
Single Execution	false	
Read Only	false	
Body Font Size	0	
Project Management	Name	Value
	Author	her_hod
	Create Date Time	05.07.2015 21:17:09
	Last Modified	05.07.2015 21:34:08

## Children


<b>Name</b>	<b>Description</b>
Nehme Anzahl Nukleotide	
DNA zu X	
DNA zu cDNA	
DNA zu Protein	
Nehme Anzahl Amonosäure	
Wählen DNA zu X-Sequenz	
Wählen Richtug der "Übersetzung"	
DNA zu mRNA	


## Wählen DNA zu X-Sequenz


<b>Name</b>	<b>Value</b>
-------------	--------------

Must Isolate	false	
Leaf	false	
Visibility	Unspecified	
Project Management	<b>Name</b>	<b>Value</b>
	Author	her_hod
	Create Date Time	05.07.2015 20:47:13
	Last Modified	05.07.2015 21:43:15

## Relationships

Unnamed Control Flow		
To	 DNA zu X	
Leaf	false	
Visibility	Unspecified	
Project Management	<b>Name</b>	<b>Value</b>
	Author	her_hod
	Create Date Time	05.07.2015 21:03:33
	Last Modified	05.07.2015 21:24:08

Unnamed Control Flow		
To	 N/A	
Leaf	false	
Visibility	Unspecified	
Project Management	<b>Name</b>	<b>Value</b>
	Author	her_hod
	Create Date Time	05.07.2015 21:36:20
	Last Modified	05.07.2015 21:43:15


Unnamed Control Flow		
From	 N/A	
Leaf	false	
Visibility	Unspecified	
Project Management	<b>Name</b>	<b>Value</b>
	Author	her_hod
	Create Date Time	05.07.2015 21:07:58
	Last Modified	05.07.2015 21:24:08


## DNA zu X


Name	Value
Must Isolate	false
Leaf	false
Visibility	Unspecified


Project Management	<b>Name</b>	<b>Value</b>
	Author	her_hod
	Create Date Time	05.07.2015 20:55:29
	Last Modified	05.07.2015 21:34:08

## Relationships

Unnamed Control Flow		
To	 DNA zu mRNA	
Leaf	false	
Visibility	Unspecified	
Project Management	<b>Name</b>	<b>Value</b>
	Author	her_hod
	Create Date Time	05.07.2015 21:05:15
	Last Modified	05.07.2015 21:34:08

Unnamed Control Flow		
To	 DNA zu Protein	
Leaf	false	
Visibility	Unspecified	
Project Management	<b>Name</b>	<b>Value</b>
	Author	her_hod
	Create Date Time	05.07.2015 21:05:18
	Last Modified	05.07.2015 21:24:08


Unnamed Control Flow		
To	 DNA zu cDNA	
Leaf	false	
Visibility	Unspecified	
Project Management	<b>Name</b>	<b>Value</b>
	Author	her_hod
	Create Date Time	05.07.2015 21:11:50
	Last Modified	05.07.2015 21:24:08


Unnamed Control Flow		
From	 Wählen DNA zu X-Sequenz	
Leaf	false	
Visibility	Unspecified	
Project Management	<b>Name</b>	<b>Value</b>
	Author	her_hod
	Create Date Time	05.07.2015 21:03:33
	Last Modified	05.07.2015 21:24:08

 **DNA zu mRNA**

Name	Value	
Must Isolate	false	
Leaf	false	
Visibility	Unspecified	
Project Management	Name	Value
	Author	her_hod
	Create Date Time	05.07.2015 21:04:17
	Last Modified	05.07.2015 21:34:08

## Relationships


Unnamed Control Flow		
To	 Nehme Anzahl Nukleotide	
Leaf	false	
Visibility	Unspecified	
Project Management	Name	Value
	Author	her_hod
	Create Date Time	05.07.2015 21:14:30
	Last Modified	05.07.2015 21:34:08


Unnamed Control Flow		
From	 DNA zu X	
Leaf	false	
Visibility	Unspecified	
Project Management	Name	Value
	Author	her_hod
	Create Date Time	05.07.2015 21:05:15
	Last Modified	05.07.2015 21:34:08

## DNA zu cDNA

Name	Value	
Must Isolate	false	
Leaf	false	
Visibility	Unspecified	
Project Management	Name	Value
	Author	her_hod
	Create Date Time	05.07.2015 20:58:08
	Last Modified	05.07.2015 21:24:08

## Relationships



Unnamed Control Flow	
To	 Nehme Anzahl Nukleotide
Leaf	false


Visibility	Unspecified	
Project Management	<b>Name</b>	<b>Value</b>
	Author	her_hod
	Create Date Time	05.07.2015 21:14:46
	Last Modified	05.07.2015 21:24:08
<b>Unnamed Control Flow</b>		
From	 DNA zu X	
Leaf	false	
Visibility	Unspecified	
Project Management	<b>Name</b>	<b>Value</b>
	Author	her_hod
	Create Date Time	05.07.2015 21:11:50
	Last Modified	05.07.2015 21:24:08

## Nehme Anzahl Nukleotide

Name	Value	
Must Isolate	false	
Leaf	false	
Visibility	Unspecified	
Project Management	Name	Value
	Author	her_hod
	Create Date Time	05.07.2015 20:48:57
	Last Modified	05.07.2015 21:34:08

## Relationships


<b>Unnamed Control Flow</b>		
To	 N/A	
Leaf	false	
Visibility	Unspecified	
Project Management	<b>Name</b>	<b>Value</b>
	Author	her_hod
	Create Date Time	05.07.2015 21:25:49
	Last Modified	05.07.2015 21:34:08
<b>Unnamed Control Flow</b>		
From	 DNA zu mRNA	
Leaf	false	
Visibility	Unspecified	
Project Management	<b>Name</b>	<b>Value</b>
	Author	her_hod
	Create Date Time	05.07.2015 21:14:30
	Last Modified	05.07.2015 21:34:08


Unnamed Control Flow		
From	 DNA zu cDNA	
Leaf	false	
Visibility	Unspecified	
Project Management	Name	Value
	Author	her_hod
	Create Date Time	05.07.2015 21:14:46
	Last Modified	05.07.2015 21:24:08

## DNA zu Protein

Name	Value	
Must Isolate	false	
Leaf	false	
Visibility	Unspecified	
Project Management	Name	Value
	Author	her_hod
	Create Date Time	05.07.2015 20:58:11
	Last Modified	05.07.2015 21:24:08

## Relationships

Unnamed Control Flow		
To	 Nehme Anzahl Amonosäure	
Leaf	false	
Visibility	Unspecified	
Project Management	Name	Value
	Author	her_hod
	Create Date Time	05.07.2015 21:13:07
	Last Modified	05.07.2015 21:24:08



Unnamed Control Flow		
From	 DNA zu X	
Leaf	false	
Visibility	Unspecified	
Project Management	Name	Value
	Author	her_hod
	Create Date Time	05.07.2015 21:05:18
	Last Modified	05.07.2015 21:24:08

## Nehme Anzahl Amonosäure

Name	Value
Must Isolate	false

Leaf	false	
Visibility	Unspecified	
Project Management	<b>Name</b>	<b>Value</b>
	Author	her_hod
	Create Date Time	05.07.2015 21:06:38
	Last Modified	05.07.2015 21:34:08


## Relationships

Unnamed Control Flow		
To	 N/A	
Leaf	false	
Visibility	Unspecified	
Project Management	<b>Name</b>	<b>Value</b>
	Author	her_hod
	Create Date Time	05.07.2015 21:25:54
	Last Modified	05.07.2015 21:34:08
Unnamed Control Flow		
From	 DNA zu Protein	
Leaf	false	
Visibility	Unspecified	
Project Management	<b>Name</b>	<b>Value</b>
	Author	her_hod
	Create Date Time	05.07.2015 21:13:07
	Last Modified	05.07.2015 21:24:08

 N/A

Name	Value	
Must Isolate	false	
Leaf	false	
Visibility	Unspecified	
Combine Duplicate	true	
Project Management	Name	Value
	Author	her_hod
	Create Date Time	05.07.2015 21:25:37
	Last Modified	05.07.2015 21:43:15


## Relationships

Unnamed Control Flow	
To	 Generieren DNA
Leaf	false
Visibility	Unspecified




Project Management	<b>Name</b>	<b>Value</b>
	Author	her_hod
	Create Date Time	05.07.2015 21:26:37
	Last Modified	05.07.2015 21:34:08

#### Unnamed Control Flow

From	 Nehme Anzahl Nukleotide	
Leaf	false	
Visibility	Unspecified	


Project Management	<b>Name</b>	<b>Value</b>
	Author	her_hod
	Create Date Time	05.07.2015 21:25:49
	Last Modified	05.07.2015 21:34:08

#### Unnamed Control Flow

From	 Nehme Anzahl Amonosäure	
Leaf	false	
Visibility	Unspecified	


Project Management	<b>Name</b>	<b>Value</b>
	Author	her_hod
	Create Date Time	05.07.2015 21:25:54
	Last Modified	05.07.2015 21:34:08

#### Unnamed Control Flow

From	 Wählen Richtug der "Übersetzung"	
Leaf	false	
Visibility	Unspecified	

Project Management	<b>Name</b>	<b>Value</b>
	Author	her_hod
	Create Date Time	05.07.2015 21:34:58
	Last Modified	05.07.2015 21:43:15

#### Unnamed Control Flow

From	 Wählen DNA zu X-Sequenz	
Leaf	false	
Visibility	Unspecified	



Project Management	<b>Name</b>	<b>Value</b>
	Author	her_hod
	Create Date Time	05.07.2015 21:36:20
	Last Modified	05.07.2015 21:43:15

## Generieren DNA

<b>Name</b>	<b>Value</b>
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Must Isolate	false	
Leaf	false	
Visibility	Unspecified	
Project Management	<b>Name</b>	<b>Value</b>
	Author	her_hod
	Create Date Time	05.07.2015 21:23:12
	Last Modified	05.07.2015 21:43:15






## Relationships

Unnamed Control Flow		
To	 zu X	
Leaf	false	
Visibility	Unspecified	
Project Management	<b>Name</b>	<b>Value</b>
	Author	her_hod
	Create Date Time	05.07.2015 21:28:21
	Last Modified	05.07.2015 21:34:08
Unnamed Control Flow		
From	 N/A	
Leaf	false	
Visibility	Unspecified	
Project Management	<b>Name</b>	<b>Value</b>
	Author	her_hod
	Create Date Time	05.07.2015 21:26:37
	Last Modified	05.07.2015 21:34:08

## DNA zu X

<b>Name</b>	<b>Value</b>	
Reentrant	false	
Single Execution	false	
Read Only	false	
Body Font Size	0	
Project Management	<b>Name</b>	<b>Value</b>
	Author	her_hod
	Create Date Time	05.07.2015 21:20:26
	Last Modified	05.07.2015 21:43:15


## Children


Name	Description
 Generieren DNA	
 zu X	
 Generieren cDNA	
 Generieren mRNA	
 Generieren Protein	


## zu X

Name	Value	
Must Isolate	false	
Leaf	false	
Visibility	Unspecified	
Project Management	Name	Value
	Author	her_hod
	Create Date Time	05.07.2015 21:27:05
	Last Modified	05.07.2015 21:34:08


## Relationships

Unnamed Control Flow		
To	 Generieren cDNA	
Leaf	false	
Visibility	Unspecified	
Project Management	Name	Value
	Author	her_hod
	Create Date Time	05.07.2015 21:29:43
	Last Modified	05.07.2015 21:34:08

Unnamed Control Flow		
To	 Generieren mRNA	
Leaf	false	
Visibility	Unspecified	
Project Management	Name	Value
	Author	her_hod
	Create Date Time	05.07.2015 21:29:47
	Last Modified	05.07.2015 21:34:08

Unnamed Control Flow		
To	 Generieren Protein	
Leaf	false	
Visibility	Unspecified	



Project Management	<b>Name</b>	<b>Value</b>
	Author	her_hod
	Create Date Time	05.07.2015 21:29:50
	Last Modified	05.07.2015 21:34:08

Unnamed Control Flow		
From	 Generieren DNA	
Leaf	false	
Visibility	Unspecified	
Project Management	<b>Name</b>	<b>Value</b>
	Author	her_hod
	Create Date Time	05.07.2015 21:28:21
	Last Modified	05.07.2015 21:34:08

## Generieren cDNA

Name	Value	
Must Isolate	false	
Leaf	false	
Visibility	Unspecified	
Project Management	Name	Value
	Author	her_hod
	Create Date Time	05.07.2015 21:28:29
	Last Modified	05.07.2015 21:43:15

## Relationships


Unnamed Control Flow		
To	 N/A	
Leaf	false	
Visibility	Unspecified	
Project Management	Name	Value
	Author	her_hod
	Create Date Time	05.07.2015 21:39:41
	Last Modified	05.07.2015 21:43:15
Unnamed Control Flow		
From	 zu X	
Leaf	false	
Visibility	Unspecified	
Project Management	Name	Value
	Author	her_hod
	Create Date Time	05.07.2015 21:29:43
	Last Modified	05.07.2015 21:34:08

## Generieren mRNA

Name	Value	
Must Isolate	false	
Leaf	false	
Visibility	Unspecified	
Project Management	Name	Value
	Author	her_hod
	Create Date Time	05.07.2015 21:28:32
	Last Modified	05.07.2015 21:43:15

## Relationships



Unnamed Control Flow		
To	 N/A	

Leaf	false	
Visibility	Unspecified	
Project Management	<b>Name</b>	<b>Value</b>
	Author	her_hod
	Create Date Time	05.07.2015 21:39:45
	Last Modified	05.07.2015 21:43:15
<b>Unnamed Control Flow</b>		
From	 zu X	
Leaf	false	
Visibility	Unspecified	
Project Management	<b>Name</b>	<b>Value</b>
	Author	her_hod
	Create Date Time	05.07.2015 21:29:47
	Last Modified	05.07.2015 21:34:08

## Generieren Protein

<b>Name</b>	<b>Value</b>	
Must Isolate	false	
Leaf	false	
Visibility	Unspecified	
Project Management	<b>Name</b>	<b>Value</b>
	Author	her_hod
	Create Date Time	05.07.2015 21:28:35
	Last Modified	05.07.2015 21:43:15

## Relationships




<b>Unnamed Control Flow</b>		
To	 N/A	
Leaf	false	
Visibility	Unspecified	
Project Management	<b>Name</b>	<b>Value</b>
	Author	her_hod
	Create Date Time	05.07.2015 21:39:49
	Last Modified	05.07.2015 21:43:15
<b>Unnamed Control Flow</b>		
From	 zu X	
Leaf	false	
Visibility	Unspecified	


Project Management	<b>Name</b>	<b>Value</b>
	Author	her_hod
	Create Date Time	05.07.2015 21:29:50
	Last Modified	05.07.2015 21:34:08

 **N/A**

<b>Name</b>	<b>Value</b>	
Must Isolate	false	
Leaf	false	
Visibility	Unspecified	
Combine Duplicate	true	
Project Management	<b>Name</b>	<b>Value</b>
	Author	her_hod
	Create Date Time	05.07.2015 21:39:34
	Last Modified	05.07.2015 21:43:15

## Relationships



<b>Unnamed Control Flow</b>		
To	 Eingabe Sequenz	
Leaf	false	
Visibility	Unspecified	
Project Management	<b>Name</b>	<b>Value</b>
	Author	her_hod
	Create Date Time	05.07.2015 21:40:06
	Last Modified	05.07.2015 21:43:15
<b>Unnamed Control Flow</b>		
From	 Generieren cDNA	
Leaf	false	
Visibility	Unspecified	
Project Management	<b>Name</b>	<b>Value</b>
	Author	her_hod
	Create Date Time	05.07.2015 21:39:41
	Last Modified	05.07.2015 21:43:15
<b>Unnamed Control Flow</b>		
From	 Generieren mRNA	
Leaf	false	
Visibility	Unspecified	
Project Management	<b>Name</b>	<b>Value</b>
	Author	her_hod
	Create Date Time	05.07.2015 21:39:45
	Last Modified	05.07.2015 21:43:15

Unnamed Control Flow		
From	 Generieren Protein	
Leaf	false	
Visibility	Unspecified	
Project Management	Name	Value
	Author	her_hod
	Create Date Time	05.07.2015 21:39:49
	Last Modified	05.07.2015 21:43:15

## Eingabe Sequenz

Name	Value	
Must Isolate	false	
Leaf	false	
Visibility	Unspecified	
Project Management	Name	Value
	Author	her_hod
	Create Date Time	05.07.2015 21:33:27
	Last Modified	05.07.2015 21:43:15

## Relationships

Unnamed Control Flow		
To	 Vergleichen Sequenz	
Leaf	false	
Visibility	Unspecified	
Project Management	Name	Value
	Author	her_hod
	Create Date Time	05.07.2015 21:41:34
	Last Modified	05.07.2015 21:43:15
Unnamed Control Flow		
From	 N/A	
Leaf	false	
Visibility	Unspecified	
Project Management	Name	Value
	Author	her_hod
	Create Date Time	05.07.2015 21:40:06
	Last Modified	05.07.2015 21:43:15




## Sequenz Test

Name	Value
Reentrant	false



Single Execution	false	
Read Only	false	
Body Font Size	0	
Project Management	<b>Name</b>	<b>Value</b>
	Author	her_hod
	Create Date Time	05.07.2015 21:31:24
	Last Modified	05.07.2015 21:43:15



## Children

Name	Description
 Eingabe Sequenz	
 Vergleichen Sequenz	
 Ausgabe Ergebnis	

## Vergleichen Sequenz

Name	Value	
Must Isolate	false	
Leaf	false	
Visibility	Unspecified	
Project Management	<b>Name</b>	<b>Value</b>
	Author	her_hod
	Create Date Time	05.07.2015 21:40:47
	Last Modified	05.07.2015 21:43:15


## Relationships

Unnamed Control Flow		
To	 Ausgabe Ergebnis	
Leaf	false	
Visibility	Unspecified	
Project Management	<b>Name</b>	<b>Value</b>
	Author	her_hod
	Create Date Time	05.07.2015 21:42:53
	Last Modified	05.07.2015 21:43:15
Unnamed Control Flow		
From	 Eingabe Sequenz	
Leaf	false	
Visibility	Unspecified	
Project Management	<b>Name</b>	<b>Value</b>
	Author	her_hod
	Create Date Time	05.07.2015 21:41:34
	Last Modified	05.07.2015 21:43:15

## Ausgabe Ergebnis

Name	Value	
Must Isolate	false	
Leaf	false	
Visibility	Unspecified	
Project Management	Name	Value
	Author	her_hod
	Create Date Time	05.07.2015 21:42:10
	Last Modified	05.07.2015 21:43:15

## Relationships

Unnamed Control Flow		
From	 <a href="#">Vergleichen Sequenz</a>	
Leaf	false	
Visibility	Unspecified	
Project Management	Name	Value
	Author	her_hod
	Create Date Time	05.07.2015 21:42:53
	Last Modified	05.07.2015 21:43:15