## **Primer Library**

The primer library is a storage for keeping user primers. The added primers are stored between UGENE sessions.

Go to the Tools->Primer->Primer library context menu to configure the primer library. The following window will appear:

U UGENE					—		×
File Actions	Settings Tools Win	dow Help					
U	Start Pag	je	×	Primer Library			×
Name	GC-content (%)	Tm (°C)	Length (bp)	Sequence		New prim	ner
Primer	33.33	15.88	9	AACCAAAGT		Edit prim	er
Primer1	59.09	62.83	22	GTCCCACTGTACCTGTTCGACG		Remove prin	ner(s)
Test Primer	40	54.49	20	ACGTTTAACCACGTTTAACC		Import prim	er(s)
						Export prim	er(s)
						Temperat	ure
						Close	
						Help	
							0 eb
0 2: Tasks	🗐 <u>3</u> : Log				N	o active tasks	; 💡 🚔

Click the New primer button to add a new primer. The following dialog will appear:

U Crea	ate New Primer	? ×
F		3'
Name	New Primer	
	OK C	Cancel Help

Input the primer sequence and primer name and click on the OK button.

Select the primer and click the *Edit primer* button to edit primer.

Select the primer in the table (you can use Ctrl and Shift) and click Remove primer(s) button to remove primer(s).

To export primer(s) select it and click the Export primer(s) button. The following dialog will appear:

U Export Primers		?	×
Format: GenBank File path:			~
	OK Cancel	He	lp

Select file and file format and click on the OK button.

To import primer(s) click the Import primer(s) button. The following dialog will appear:

U Impo	rt Primers	? ×
Files:		Add file(s) Remove
Objects:		Add object(c)
		Remove
	Import	Help

Select Add file(s) button for adding one or several files with primer sequences. Note that all sequence formats, supported by UGENE, can be imported, for example, FASTA, GenBank, etc. But the sequences must consist of ACGT characters only.

Select Add object(s) button for adding one or several items already loaded in the Project.

Click the Import button to import the added files or objects into the primers library.

Click the Temperature button for choosing temperature calculation algorithm: Rough or Primer 3.

U Melting temperature	?	×		
Choose temperature calculation algorithm:				
Rough		$\sim$		
Hint: UGENE computes Tm for sequence regions from 8 up to 10000 bp				
OK Cancel	Не	lp		

More information about the temperature options see here: Melting tempeature