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Agendo User Guide Genomics Unit

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Clemente BorgesBerta Fusté	12.02.2025		



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1. Agendo Registration

To be able to work with the Genomics Unit all users must be registered at Agendo:

- URL: <u>https://crg.agendoscience.com/</u>
- You must register yourself at "Register" link at the bottom of the login form. Fill all the required information under the "Create a new account" form.
- On the registration form, you will have to fill in your credentials and select the list and the group (laboratory). If your institute or group is not in the lists, select "Other" and complete the information to register a new institute and group.
- Then, request access to the facilities that you plan to use by clicking on the empty text box. Check the facility "Genomics Unit" to gain access to all the Genomics Unit resources.
- Upon registration, your account is reviewed by an institutional administrator. Once your account is accepted, you will receive a temporary password that must be changed upon the first login. After that, you are ready to go.

if you need:

- help with your registration
- to add a financial account/project number
- to delete an old member of your group
- if you have changed from one group to another

Please, write to isabel.jurado@crg.eu

For more information you may also follow the official Agendo <u>Quick user quide</u>.

2. List of Genomics Unit Agendo Requests

The Genomic Unit offers multiple services distributed in different request classes:

- NGS Library Prep and Sequencing: Whole and Targeted Genome
- NGS Library Prep and Sequencing: Transcriptome
- NGS Library Prep and Sequencing: Epigenome
- NGS Library Prep and Sequencing: Single Cell genomics and transcriptomics
- NGS Library Prep and Sequencing: RNA plates
- NGS Library Prep and Sequencing: DNA plates
- NGS Libraries Ready for Sequencing
- NGS complementary services: Automated electrophoresis
- NGS complementary services: Covaris

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Whole and Targeted Genome	Transcriptome	Epigenome	Single Cell genomics and transcriptomics	
WG-Seq		ChIP-seq	Single cell RNA-seq	
ExomeCapture-seq	Ribodepleted RNA-seq	ATAC-seq	Single cell ATAC-seq	
CustomCapture-seq	Low input mRNA-seq	HiC-seq	Single cell Multiome_ATAC	
PanelCapture-seq	Low input ribodepleted RNA-seq	Methyl-seq	Single cell Multiome_GE	
Amplicon-seq	smallRNA-seq	Other	SMARTseq2	
Genome editing CRISPR	Ribo-seq		Other	
WG SNP genotyping	Other			
Other				

How to access to Genomics Unit requests:

- The fastest way to find a Genomics Unit request or resource is by typing its name in the search tool on the top navigation bar.
- If you do not know the name of the resource, you can find the complete list in Requests, accessible through the menu on the left, and sort by class or Facility.

3. Agendo workflow

All requests follow a simple workflow:

- **Draft:** complete the request and save it as draft allowing you to leave and return later to continue editing it until it's ready for submission.
- **Submission:** when a request is submitted it cannot be changed again by the user unless the Genomics Unit suggests changes after the reviewing of it.
- Locked: once a submitted request is opened by Genomics Unit, its status is automatically set to locked and the requesting user will no longer be able to alter it. Managers can edit the request while it is not completed.
- **Approved/rejected:** once reviewed by the Genomics Unit the request can be Approved or Rejected:
 - The unit may return the request with comments or suggestions for revisions, at which point the status will change to "Rejected", and allowing the user to edit again, and resubmit the request.
 - If the request is satisfactory and "Approved," the Genomics Unit may issue a quote for it. Once the quote is issued, it requires the PI's approval before processing can continue. After the PI approves the quote "approval for funds", the Genomics Unit will begin the experimental process.
- **Completed:** the request will be considered completed when NGS data is already sent. For sample quality results or any small document (pdf or doc) you can access them by clicking on the folder icon located in the top right corner of the request details, as shown in the following figure. You will be redirected to a new page, "NextCloud", where you have to login with your Agendo credentials (user and password).

IMPORTANT: the capacity of the NextCloud is limited, download the results as soon as possible.





Note that:

During the whole process you may receive comments from the Genomics Unit. The comments may be seen by clicking on the "Comments" tab at the request upper left menu.

General	REQUEST DETAILS					@ D. (
Comments ⁸	Request #	6938	Custom reference	2024BD303		Approved		
	Class	Data analysis (Bioinformatics)			0			
	User	Irene González			0	0		
Files ²	Group	Genomics Unit (Berta Fuste)			0			
	Institute	CENTRE DE REGULACIÓ GENÒMICA						
Milestones	Requesting date	2024-12-20 13:47:07						
	Account	006341 - Genomics Unit			S			

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4. Submitting Agendo Requests for the Genomics Unit

4.1 General submission

Each Genomics Unit Agendo Request has 4 blocs to be completed:

- General information
- Request form
- Sample list
- Comments

Some fields are common for all the Requests and others are Request specific fields. Moreover, some fields are mandatory (they show an asterisk *) and others are optional fields.

First add the administrative information into the GENERAL INFORMATION area

ENERAL INFO	RMATION	FOR MORE INFORMATION, CLICK H		
	Submit request on behalf of another user			
	Select user	¥		
Account	Select account			
Research line	Select parent request			
	Use this field to reference a previous request			
Titlo				

- Account: only for CRG users, it is associated to a project number already introduced in the system (Ex. 00XXXX – Genomics Unit). If the project it is not introduced, please send an email to Isabel Jurado, <u>isabel.jurado@crg.eu</u>
- Research line: corresponds to a previous Agendo request in case of generating multiple Agendo request that must be connected
- Title: free text, add the information related to your project

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Second complete the experimental design that you would need into the **REQUEST FORM** area. Most fields will be self-explanatory as you may have to select an option from a list, or they may show some text below the field to help you understand what is needed.

REQUEST FORM	2
Order number	Specify here the official order number for this request provided by your institution (only to be filled by non-CRG users)
Subproject name	To be filled by Genomics Unit
Application *	Select Application 🔹
Input *	Select Input
Sample type *	Select Sample type
Number of samples *	
Sample preparation only? *	Select Sample preparation only?
Sequencing depth *	M reads / sample
Read length *	Select Read length
Full run required	Specify in comments sequencer type and run format (read1,index1,index2,read2) (e.g. 50,8,8,50 or 51,10,0,0)

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Third you need to add the information related to the samples to be processed at the **SAMPLE LIST** area.

Sample information can be completed manually into the request form by filling in the table shown and adding extra rows as needed by sample using the "+ Add sample" icon as shown in the figure.

SAMPLE LISTS									
Before filling the CSV or the table below, check mandatory fields (*)									
Download 🛓	Download 🕹 Upload 🌲 🕂 Add sample 👼 Remove all								
✓ Validate	✓ Validate								
				SAMPLE					
SAMPLE NO.	CODE	SAMPLE NAME	SAMPLE TYPE *	SPECIES NAME (USE NCBI TAXONOMY) *	VOLUME (UL) *	CELL OR NUCLEI CONCENTRATION (CELLS/UL OR NUCLEI/UL) * (1)	TARGET RECOVERY * 🚯		

Sample number and custom IDs will be automatically created upon submission | * Required fields

In the case of many samples, the information can be also uploaded through a CSV file. Be aware that each type of request requires different information, so each request type has its own and specific CSV template. To download the CSV template provided by Agendo, simply click on the icon (Download $\stackrel{1}{\simeq}$) as shown in the next Figure.

SAMPLE LISTS	SAMPLE LISTS										
Before filling t	he CSV or the	e table below, check	k mandatory fiel	ds (*)							
Download 🛓	Upload 🚣	+ Add sample	💼 Remove all								
✓ Validate											
				SAMPLE							
SAMPLE NO.	CODE	SAMPLE NAME	SAMPLE TYPE *	SPECIES NAME (USE NCBI	VOLUME (UL) *	CONCENTRATION					
		^ U		TAXONOMY) *		NUCLEI/UL) *	RECOVERY				

Sample number and custom IDs will be automatically created upon submission | * Required fields

When working with CSV files all information related to one sample will appear in one cell separated by comas. If you prefer to work by columns, please modify the document using the feature "Text to columns" found in the Excel menu and save it as CSV (Comma delimited) ((*.csv).

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Entering the information using the correct format or specific text is essential for uploading the data from the CSV file. If this is not filled out correctly, an error will occur, and the data upload will not be allowed. To facilitate this, some fields have extra information and guidelines to be completed. Please check them out by mousing over the information icon () for each of the sample field names. You will get a help tooltip as shown in the next Figure or you can find all the information at the end of this document "Quick Agendo Sample Submission Guide".

Download 📥	Upload 🗘	+ Add sample	Remove all	✓ Validate			
SAMPLE NO.	CODE	SAMPLE NAME *	SAMPLE TYPE *	SAMPLE SPECIES NAME (USE NCBI TAXONOMY) * 🚯	VOLUME (UL) *	CONCENTRATION (NG/UL) * 🚯	NANODROP 260/280 * 🚯

Once the CSV file is ready with all your samples, go back to the "Sample list" section under your Agendo request, and click on "Upload". It is mandatory to upload a CSV file (not Excel files).

Download 🛓 Upload 🕹	+ Add sample	.				
		Remove all	✓ Validate			
SAMPLE NO. CODE	SAMPLE NAME *	SAMPLE TYPE *	SAMPLE SPECIES NAME (USE NCBI TAXONOMY) * 🕄	VOLUME (UL) *	CONCENTRATION (NG/UL) * 🚯	NANODROP 260/280 * (3)

Finally, a message will appear to confirm if you want to either append or replace the CSV data to the Agendo sample list. If the Agendo sample list is empty, it does not really matter which option you select. But if you have already samples in the Agendo list, and you want to recreate them, the best option is to choose the "Replace" option. The append option would add new samples at the end of already existing samples. You should see all your samples on the list.



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Before finalizing the process and in case you need to clarify something, please add free text in the **COMMENTS** area.

To finish the submission, click at the end of the page "submit" and confirm the submission.



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4.2 Importing samples in plates

There are only three available Agendo requests involving the submission of samples in plate:

- NGS Library Prep and Sequencing: Plates DNA: for large scale projects such as WGS or Amplicon-seq experiments.
- NGS Library Prep and Sequencing: Plates RNA: for large scale RNA projects for standard input mRNA or SMARTseq2 experiments.
- NGS complementary services: Automated electrophoresis

For these requests, you must download a *pre-filled Excel template* that includes a plate number and a well position for placing a sample (see Figure below with red IMPORTANT message with links).

SAMPLE LISTS	SAMPLE LISTS										
IMPORTANT D)ownload the E	excel pre-filled plat	tes template. Re	ad the guideline	S.						
Download 🛓	Upload 🚣	+ Add sample	🗑 Remove all	✓ Validate							
SAMPLE NO.	CODE	PLATE NUMBER * 🚯	PLATE NAME *	WELL POSITION	SAMPLE NAME	SAMPLE TYPE 🚯	SAMPLE SPECIES NAME (USE NCBI TAXONOMY) *				
Sample number a	nd custom IDs wi	ill be automatically c	reated upon subm	nission * Required	d fields						

By default, the template contains up to three plates with the "*Plate Number*" and the "*Well Position*" are already pre-filled, you just need to fill the sample data in the right positions (See figure below). It is **mandatory to remove the rows that you are not using**. In the end, you will need to convert the Excel file into a CSV file, which is the only format supported by Agendo to upload samples (CSV (Comma delimited) ((*.csv)).

A	В	С	D	E	F	G	н	1	J	К	L	м	N
Sample No.	Code	Plate Number	Plate Name	Well Position	Sample Name	Sample Type	Sample Specie	Volume (ul)	Concentration	Nanodrop 260/	Nanodrop 260/	Sample Repla	Observations
		1	. plate_1	1 A01								no	
		1	. plate_1	1 B01								no	
		1	plate_1	1 C01								no	
		1	plate_1	1 D01								no	
		1	plate_1	1 E01								no	
		1	. plate_1	1 F01								no	
		1	. plate_1	1 G01								no	
		1	plate_1	1 H01								no	
		1	. plate_1	1 A02								no	

Plates – DNA: specific plate distribution by columns, and **well G12 and H12** should always be **empty**. Do not leave empty wells between samples.

Plates – RNA: specific plate distribution by columns, and **well H12** should always be **empty**. Do not leave empty wells between samples.

Plates – Automated Electrophoresis: specific plate distribution by columns, and **well D12 and H12** should always be **empty**. Do not leave empty wells between samples. Please, use the "AE_pre-filled_plate_template" to submit samples information.

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Accepted plates: Eppendorf twin-tec PCR 96 semi-skirted (ref. 30128575) and NZYTECH 96 well PCR plates half skirt (ref. LW00801). If sending plates with dry ice, we recommend using the Bio-Rad Microseal "B" seals (ref.MSB1001) to prevent detachment of the foil.

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4.3 Importing libraries

If you are bringing already prepared libraries to the Genomics Unit, there is a specific Agendo request for it *NGS Libraries Ready for Sequencing*. Users can submit single/individual libraries, pooled libraries or a mix of single and pooled libraries by adding information within the Sample list section.

a) Importing single/individual libraries

To import single libraries, you just need to ignore the sample list field called "*Pool name (mandatory for each library belonging to a pool)*". In this way, the system will consider the libraries as single/individual.

Library Name * 🕚	Species Name (Use NCBI taxonomy) * ①	Sequence index I7 * 🕚	Sequence index i5 0	Pool name (mandatory for each fibrary belonging to a	Library or Pool Volume (ul) 🕚
lib_01	Homo sapiens	AGGTCGGA	AACCTAGA		1.4

b) Importing pooled libraries

In order to import pooled libraries, you <u>must fill the "Pool name (mandatory for each library</u> <u>belonging to a pool)</u>" field as it is clearly stated in the field name.

Library Name * 🕚	Species Name (Use NCBI taxonomy) * 🚯	Sequence index i7 * 🕚	Sequence index i5 0	Pool name (mandatory for each library belonging to a pool)	Library or Pool Volume (ul)	Library or Pool Molarity (nM) 🚯
R13R	Homo sapiens	CCTTGATC	ACTCCATC	pool6	29	
R18R	Homo sapiens	GTGAAGTG	GATTGCTC	pool6	29	
R36R	Homo sapiens	ATGCCTGT	CGCAATCT	pool6	29	
R36C	Homo sapiens	CAACACCT	TGGTAGCT	pool6	29	

As illustrated in the Figure above, the field "*Pool name (mandatory for each library belonging to a pool)*" has the value "pool6" (which would be the name in the tube), indicating that all these libraries will be grouped into this one pool. If you add multiple libraries with various pool names, the system will generate a separate pool for each unique pool name. Lastly, if your sample list includes libraries with specified pool names and others where the "Pool name (mandatory for each library belonging to a pool)" field is left empty, the system will create pools for those with pool names while treating the others as single/individual libraries.



5. Quick Agendo Sample Submission Guide

NGS complementary services: Automated electro	phoresis
Sample field	Description
Sample No.	Automatically generated by Agendo
Code	Automatically generated by Agendo
Plate Number	It allows only numbers. Starting from 1 to
	indicate plate 1 up to 3 plates
Well Position	A01 to H12 by columns. Positions D12 and H12
	must remain empty.
Sample Name (same as in tube)	Between 1 and 4 alphanumeric characters,
	underscore included (e.g. TE_1)
Sample Type	Choose 1 of the following (spelling must match
	exactly): gDNA, fragmented DNA, cDNA, PCR
	amplicons, Total RNA, polyA RNA, rRNA-
	depleted RNA, smallRNA, WG Library, Exome-
	Capture Library, Amplicon Library, mRNA
	Library, rRNA-Ribodepleted Library, smallRNA
	Library, ChIP Library, ATAC Library, Other
Sample Species Name (Use NCBI taxonomy)	Must start with a capital letter word, might be
	followed by more words, separated by spaces
	from each other (e.g. Homo sapiens, Mus
	musculus, Microbiota)
Concentration (ng/ul)	Integer or decimal with . as separator
Volume (ul)	Integer or decimal with . as separator
Expected size (bp) for libraries	Integer
Observations	Any desired comment about the sample

NGS complementary services: Covaris	
Sample field	Description
Sample No.	Automatically generated by Agendo
Code	Automatically generated by Agendo
Sample Name (same as in tube)	Between 1 and 4 alphanumeric characters, underscore included (e.g. TE_1)
Desired fragment size (bp)	Base Pairs (bp)
Volume (ul)	Integer or decimal with . as separator
Duty Factor (%)	Completed by the Genomics Unit
Peak Power (W)	Completed by the Genomics Unit
Cycles / burst	Completed by the Genomics Unit
Time (s)	Completed by the Genomics Unit
Observations	Any desired comment about the sample



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NGS Library Prep and Sequencing: Whole and Targeted Genome		
Sample field	Description	
Sample No.	Automatically generated by Agendo	
Code	Automatically generated by Agendo	
Sample Name	Between 2 and 15 alphanumeric characters, underscore included (e.g. TE_123)	
Sample Type	Choose 1 of the following (spelling must match exactly): cDNA,cfDNA,Cloned DNA,ctDNA,gDNA,WGA-DNA,PCR amplicons,Other	
Sample Species Name (Use NCBI taxonomy)	Must start with a capital letter word, might be followed by more words, separated by spaces from each other (e.g. Homo sapiens, Mus musculus, Microbiota)	
Volume (ul)	Integer or decimal with . as separator	
Concentration (ng/ul)	Integer or decimal with . as separator	
Nanodrop 260/280	Integer or decimal with . as separator	
Nanodrop 260/230	Integer or decimal with . as separator	
Sample Replacement	Is it a replacement of a previous sample? yes or no	
Observations	Any desired comment about the sample	

NGS Library Prep and Sequencing: Transcriptome			
Sample field	Description		
Sample No.	Automatically generated by Agendo		
Code	Automatically generated by Agendo		
Sample Name	Between 2 and 15 alphanumeric characters,		
	underscore included (e.g. TE_123)		
Sample Type	Choose 1 of the following (spelling must match		
	exactly): cfRNA,nuclearRNA,polyA RNA,rRNA-		
	depleted RNA, smallRNA, Total RNA, Other		
Sample Species Name (Use NCBI taxonomy)	Must start with a capital letter word, might be		
	followed by more words, separated by spaces		
	from each other (e.g. Homo sapiens, Mus		
	musculus, Microbiota)		
Volume (ul)	Integer or decimal with . as separator		
Concentration (ng/ul)	Integer or decimal with . as separator		
Nanodrop 260/280	Integer or decimal with . as separator		
Nanodrop 260/230	Integer or decimal with . as separator		
Sample Replacement	Is it a replacement of a previous sample? yes or		
	no		
Observations	Any desired comment about the sample		



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NGS Library Prep and Sequencing: Epigenome	
Sample field	Description
Sample No.	Automatically generated by Agendo
Code	Automatically generated by Agendo
Sample Name	Between 2 and 15 alphanumeric characters, underscore included (e.g. TE_123)
Sample Type	Choose 1 of the following (spelling must match exactly): ChIP DNA,Cloned DNA,ctDNA,CUT&RUN DNA,gDNA,HiC DNA,WGA-DNA,PCR amplicons,Other
Sample Species Name (Use NCBI taxonomy)	Must start with a capital letter word, might be followed by more words, separated by spaces from each other (e.g. Homo sapiens, Mus musculus, Microbiota)
Volume (ul)	Integer or decimal with . as separator
Concentration (ng/ul)	Integer or decimal with . as separator
Nanodrop 260/280	Integer or decimal with . as separator
Nanodrop 260/230	Integer or decimal with . as separator
Sample Replacement	Is it a replacement of a previous sample? yes or no
Observations	Any desired comment about the sample

NGS Libraries Ready for Sequencing	
Sample field	Description
Sample No.	Automatically generated by Agendo
Code	Automatically generated by Agendo
Library Name	Between 2 and 15 alphanumeric characters, underscore included (e.g. TE_123)
Species Name (Use NCBI taxonomy)	Must start with a capital letter word, might be followed by more words, separated by spaces from each other (e.g. Homo sapiens, Mus musculus, Microbiota)
Sequence index i7	i7 index sequence, at least 6bp long, must only contain A,C,G,T; in case the library only has an i5 index the i7 sequence must be XXXXXX
Sequence index i5	i5 index sequence, at least 6bp long, must only contain A,C,G,T
Pool name (mandatory for each library belonging to a pool)	Between 2 and 6 alphanumeric characters (i.e. letters, numbers and underscore)
Library or Pool Volume (ul)	Integer or decimal with . as separator
Library or Pool Molarity (nM)	Integer or decimal with . as separator
Library or Pool Concentration (ng/ul)	Integer or decimal with . as separator
Library or Pool Average SIze (bp)	Integer
Library Replacement	Is it a replacement of a previous library? yes or no
Observations	Any desired comment about the library



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NGS Library Prep and Sequencing: Single Cell genomics and transcriptomics		
Sample field	Description	
Sample No.	Automatically generated by Agendo	
Code	Automatically generated by Agendo	
Sample Name	Between 2 and 15 alphanumeric characters, underscore included (e.g. TE_123)	
Sample Type	Choose 1 of the following (spelling must match exactly): Cell pellet,Cell suspension,Cells in lysis buffer,Frozen tissue,Isolated nuclei,cDNA,Other	
Sample Species Name (Use NCBI taxonomy)	Must start with a capital letter word, might be followed by more words, separated by spaces from each other (e.g. Homo sapiens, Mus musculus, Microbiota)	
Volume (ul)	Integer or decimal with . as separator	
Cell or Nuclei Concentration (cells/ul or nuclei/ul)	Integer or decimal with . as separator	
Target Recovery	Integer or decimal with . as separator. For SMART-seq put 1.	
Low RNA Content (only for scGE)	Yes or No	
Sample Replacement	Is it a replacement of a previous sample? yes or no	
Observations	Any desired comment about the sample	



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NGS Library Prep and Sequencing: Plates - DNA	
Sample field	Description
Sample No.	Automatically generated by Agendo
Code	Automatically generated by Agendo
Plate Number	It allows only numbers. Starting from 1 to
	indicate plate 1 up to 3 plates
Plate Name	Between 2 and 50 alphanumeric characters,
	underscore included (e.g. PL_123)
Well Position	A01 to H12 by columns. Positions D12 and H12
	must remain empty.
Sample Name	Between 2 and 15 alphanumeric characters,
	underscore included (e.g. TE_123)
Sample Type	Choose 1 of the following (spelling must match
	exactly): cDNA,cfDNA,ChIP DNA,Cloned
	DNA,ctDNA,CUT&RUN DNA,gDNA,HiC
	DNA,WGA-DNA,PCR amplicons,Other
Sample Species Name (Use NCBI taxonomy)	Must start with a capital letter word, might be
	followed by more words, separated by spaces
	from each other (e.g. Homo sapiens, Mus
	musculus, Microbiota)
Volume (ul)	Integer or decimal with . as separator
Concentration (ng/ul)	Integer or decimal with . as separator
Nanodrop 260/280	Integer or decimal with . as separator
Nanodrop 260/230	Integer or decimal with . as separator
Sample Replacement	Is it a replacement of a previous sample? yes or
	no
Observations	Any desired comment about the sample



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NGS Library Prep and Sequencing: Plates - RNA				
Sample field	Description			
Sample No.	Automatically generated by Agendo			
Code	Automatically generated by Agendo			
Plate Number	It allows only numbers. Starting from 1 to indicate plate 1 up to 3 plates			
Plate Name	Between 2 and 50 alphanumeric characters, underscore included (e.g. PL_123)			
Well Position	A01 to H12 by columns. Positions D12 and H12 must remain empty.			
Sample Name	Between 2 and 15 alphanumeric characters, underscore included (e.g. TE_123)			
Sample Type	Choose 1 of the following (spelling must match exactly): Total RNA,Other			
Sample Species Name (Use NCBI taxonomy)	Must start with a capital letter word, might be followed by more words, separated by spaces from each other (e.g. Homo sapiens, Mus musculus, Microbiota)			
Volume (ul)	Integer or decimal with . as separator			
Concentration (ng/ul)	Integer or decimal with . as separator			
Nanodrop 260/280	Integer or decimal with . as separator			
Nanodrop 260/230	Integer or decimal with . as separator			
Sample Replacement	Is it a replacement of a previous sample? yes or no			
Observations	Any desired comment about the sample			