



*Fundació Hospital Universitari Vall Hebron - Institut de Recerca (VHIR)*

*RECORD No.: 2018-035 CAPILLARY SEQUENCING SERVICE*

**TECHNICAL SPECIFICATIONS  
NON HARMONISED CONTRACTING – OPEN PROCEEDINGS**

**SEQUENCING SERVICES USING CAPILLARY ELECTROPHORESIS FOR THE HIGH  
TECHNOLOGY UNIT OF THE FUNDACIÓ HOSPITAL UNIVERSITARI VALL HEBRON -  
INSTITUT DE RECERCA (VHIR)**

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**Clause 1. Purpose of the tender.**

The purpose of these technical specifications is the contracting of sequencing services using capillary electrophoresis for the High Technology Unit of the Fundació Hospital Universitari Vall Hebron- Institut de Recerca (VHIR).

**Clause 2. Estimated value and maximum budget for tender:**

The estimated value and maximum budget for this tender are not the same.

The estimated value for this tender is **SEVENTY-EIGHT THOUSAND FIVE-HUNDRED SIXTY EUROS**" (€ 78.560,00), which, with the amount corresponding to VAT, which amounts to **SIXTEEN THOUSAND FOUR-HUNDRED NINETY-SEVEN EUROS WITH SIXTY EURO CENTS**" (€ 16.497,60), the total value amounts to **NINETY-FIVE THOUSAND FIFTY-SEVEN EUROS WITH SIXTY EURO CENTS**" (€ 95.057,60).

The total maximum budget for this tender, corresponding to the initial two (2) years, is **THIRTY-NINE THOUSAND TWO HUNDRED EIGHTY EUROS** (€ 39.280,00), which, with the amount corresponding to VAT, which amounts to **EIGHT THOUSAND TWO HUNDRED FOURTY-EIGHT EUROS WITH EIGHTY EURO CENTS**" (€ 8.248,80), the total value amounts to **FORTY-SEVEN THOUSAND FIVE HUNDRED TWENTY-EIGHT EUROS WITH EIGHTY EURO CENTS**" (€ 47.528,80).

In addition, the maximum annual budget for this tender is **NINETEEN THOUSAND SIX HUNDRED FORTY EUROS** (€ 19.640,00), which, with the amount corresponding to VAT, which amounts to **FOUR THOUSAND ONE HUNDRED TWENTY-FOUR EUROS WITH FORTY-FOUR EURO CENTS** (€ 4.124,44) the total value amounts to **TWENTY-THREE THOUSAND SEVEN HUNDRED SIXTY-FOUR EUROS WITH FORTY EURO CENTS** (€ 23.764,40).

Therefore, the maximum annual budget for each service typology (\*) to be carried out shall be:

SERVICE TYPOLOGY	Nº REQUIRED UNITS	MAXIMUM UNITARY PRICE (without VAT)	MAXIMUM TOTAL PRICE (without VAT)	MAXIMUM TOTAL PRICE (with VAT)
1	1600	3,10 €	4.960,00 €	6.001,60 €
2	45	125,00 €	5.625,00 €	6.806,25 €
3	650	3,50 €	2.275,00 €	2.752,75 €
4	30	190,00 €	5.700,00 €	6.897,00 €
5	100	5,00 €	500,00 €	605,00 €
6	150	2,70 €	405,00 €	490,05 €
7	50	3,50 €	175,00 €	211,75 €

(\*) This price may be improved by bidders in their submissions.



### **Clause 3. Duration of the contract.**

The duration of this contract will have an initial duration of 2 years, extendable to 2 more years.

### **Clause 4. Place of provision**

The samples to carry out the service will be sent to the successful bidder, who will have to execute it at their own facilities and send the results of the analysis to the High Technology Unit of the VHIR.

### **Clause 5. Technical specifications of the service.**

- ✓ DNA samples (plasmids, PCR products) will be sent to the successful bidder, who will have to perform the sequencing process at its facilities, and return to the UAT the results of the samples analyzed.
- ✓ The successful bidder must offer the following types of services, with the response time indicated for each one of them:

Service typology	Service name	Technical specifications	Response time (*)
1	Tube-type sequencing, Type 1	Individual samples sequencing. Each sample will contain the mixture DNA + primer.	2 days
2	Tube-type sequencing, Type 2	Individual samples sequencing, sent in a container for 48 samples (maximum). Each sample will contain the mixture DNA + primer.	2 days
3	Tube-type sequencing, Type 3	Individual samples sequencing. For each sequence reaction, two separate tubes will be sent: sample (DNA) and primer. Includes 1 free resequencing for samples, at the customer's request.	2 days
4	Plate-type sequencing, 96 wells	Samples sequencing in 96-well plate. Each well will contain the mixture DNA + primer.	2 days
5	Difficult samples sequencing	Samples with high content in G-C, secondary structure, repetitive regions ...	10 days
6	Analysis of fragments	Individual samples analysis. (400HD-400bp/500LIZ-500bp)	10 days
7	Analysis of fragments	Individual samples analysis. (1200LIZ-1200bp)	10 days

(\*) From the collection samples to the reception of the results.



- ✓ The successful bidder must comply the following requirements:
  - Have a system that allows to place service orders easily and quickly (preferably "on-line"). The services will be requested based on the needs of the Unit.
  - Send universal "primers" free of charge for each individual order of sequencing services.
  - Guarantee the total traceability of the process, including: registration of the service request, reception of samples, the process of sequencing and the delivery of results. In addition, it is required to keep a history of orders and invoices of, at least, 1 year old. All of these data must be registered and easily accessible, preferably through an "on-line" system.
  - Manage the collection of samples in the UAT laboratories and send them to their own facilities to carry out the analysis. The successful bidder must offer a daily frequency of collection of samples, although the real frequency will be established based on the needs of the Unit. The collection and delivery of samples must always be free (regardless of the type of service and the number of samples sent).
  - The successful bidder must have appropriate facilities and second-generation sequencing equipment. Each "run" must include the appropriate quality controls. For sequencing of plasmids, the sequences obtained must have a minimum length of 750 base pairs (bp), of which 650 bp must have a Phred20 score (99% accuracy) or higher. If the results of the sequencing are not satisfactory due to any error that is not attributable to the sample or the client, it may request the free re-sequencing of the samples.  
The successful bidder will keep the results obtained for a minimum of three months accessible.
  - The download of the results will be done directly through some type of digital resource (for example a web page).  
For each sample sent from the types of services 1 to 5, the successful bidder will send four files:
    - chromatogram (raw data) with quality indicator.
    - chromatogram in pdf format.
    - Simple text file.
    - file with quality measures.

For types of service 6 and 7, the successful bidder will send a file of results.

- ✓ The successful bidder must demonstrate that his activity is carried out under a quality management system (type ISO9001: 2015 or similar), presenting the corresponding certificate as evidence.



### **Clause 6. Service typologies to be supplied.**

Services stated below are the subject of this contract, as well as the estimated number of each one of them. It should be taken into account that this number of units to be supplied is considered an estimated annual value, calculated as a maximum expected consumption (\*):

TIPUS SERVEI	Nº REQUIRED UNITS	MAXIMUM UNITARY PRICE (without VAT)	MAXIMUM TOTAL PRICE (without VAT)	MAXIMUM TOTAL PRICE (with VAT)
1	1600	3,10 €	4.960,00 €	6.001,60 €
2	45	125,00 €	5.625,00 €	6.806,25 €
3	650	3,50 €	2.275,00 €	2.752,75 €
4	30	190,00 €	5.700,00 €	6.897,00 €
5	100	5,00 €	500,00 €	605,00 €
6	150	2,70 €	405,00 €	490,05 €
7	50	3,50 €	175,00 €	211,75 €

(\*) The estimated value will be binding in no case, so the VHIR will pay the services executed invoices as the corresponding orders are made.

No type of subcontracting will be accepted for the services included in this contract.

### **Clause 7. Aspects that will be valued as improvements.**

Although the products must have the technical characteristics indicated in the previous clause, bidders will be able to include the following improvements, which will be classified according to **Appendix number 2** of the Specific Administrative Administrative Terms and Conditions, in which they appear the award criteria:

1. Availability and technical advice of the commercial house, by phone or via email, with response times of less than 4 hours during working hours (from 9 a.m. to 5 p.m., Monday to Friday).

2. "Online" management system to guarantee the traceability of the entire process (orders, service status, results).



3. Offer a free re-sequencing, when the client considers that the results are amenable to improvement, although in accordance with the technical criteria the awarding company does not consider them to be failures (type of service 3 already includes re-sequencing for defect).
4. Reduction of the response time, in relation to the table of clause 5.

### **Clause 8. Confidentiality, Protection of personal data, and Intellectual Property**

Notwithstanding the provisions of current legislation on intellectual property, protection of personal data and confidentiality, the successful bidder will expressly commit itself not to provide the information and / or Data provided by the VHIR, or any use not provided for in this document, and / or expressly authorized by the Head of the assigned Unit.

The successful bidder will have to extend to the employees that adhere to the service, the obligations contained and assumed by the successful bidder, with reference to confidentiality, intellectual property and protection of Data, in particular those relating to the secret, the reservation and confidentiality of all the information that, under the service, may be aware of.

### **Clause 9. Award criteria.**

The criteria stated below shall be assessed on the basis of **judgment values**. The award criteria to assess the contents of envelope No. 2 are the following:

**TECHNICAL OFFER.....UP TO 50 POINTS.**

#### **9.1. Qualities and technical characteristics of the provision of the service (up to 40 points).**

Bidders must present an organizational and service development proposal. This work plan must include: facilities and equipment, organization of the service (sample collection, technical execution, delivery of results, response time), monitoring and resolution of incidents.

#### **9.2. Additional improvements (up to 10 points).**

- ✓ Availability and technical advice of the commercial house, by phone or via email, with response times of less than 4 hours during working hours (from 9 a.m. to 5 p.m., Monday to Friday). (Up to 3 points).



- ✓ Management system "on-line" to guarantee the traceability of the entire process (orders, service status, results). (Up to 4 points).
- ✓ Offer a free re-sequencing, when the client considers the results are susceptible to improvement, although in accordance with the technical criteria the successful bidder does not consider them to be failures. (Up to 2 points).
- ✓ Reduction of the response time, in relation to the table of clause 5. (Up to 1 point).

Barcelona, on the 20<sup>th</sup> of November 2018

**CONTRACTING ORGANISM**

**Dr Joan X. Comella Carnicé**

Director

Fundació Hospital Universitari Vall Hebron - Institut de Recerca.