



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

NÚM. EXPEDIENT: 2022-034 SERVICES FOR SEQUENCING OF NUCLEIC ACIDS (PI20/00130)

**DOCUMENT OF TECHNICAL SPECIFICATIONS
NOT HARMONIZED TRADE – OPEN PROCEDURE**

HIRING A SERVICE OF SHOTGUN METAGENOMICS SEQUENCING OF NUCLEIC ACIDS EXTRACTED FROM BIOLOGICAL SAMPLES AS PART OF COMPETITIVE PROJECTS IMPLEMENTED IN THE FUNDACIÓ HOSPITAL UNIVERSITARI VALL HEBRON - INSTITUT DE RECERCA (VHIR).

Co-financed by the “Fondo Europeo de Desarrollo Regional” (FEDER).



Clause 1. Aim of the tender

The object of this tender procedure is the contracting of the service of shotgun metagenomics sequencing of nucleic acids extracted from fecal samples, part of the Project PI20/00130 titled “*Inflammatory Bowel Disease and Microbiome: Diagnosis and prediction of disease activity from the lab to the patients*” of the Fundació Hospital Universitari Vall Hebron - Institut de Recerca (VHIR), funded by the Instituto de Salud Carlos III (Ministerio de Ciencia, Innovación y Universidades).

Throughout this specification, the tasks included within the object of this contract are specifically described, as well as the scope of the proposed service.

Clause 2. Maximum budget of the tender.

In the present tender procedure, the maximum tender budget and the estimated value of the contract match.

The maximum total budget for the two projects, corresponding to the total duration of the procedure, is “**SIXTY-NINE THOUSAND TWELVE EUROS**” (€69.012,00)(*) without VAT, plus “FOURTEEN THOUSAND FOUR HUNDRED NINETY-TWO EUROS AND FIFTY-TWO CENTS” (€ 14.492,52) corresponding to VAT, which adds up to the amount of “**EIGHTY-THREE THOUSAND FIVE HUNDRED FOUR EUROS AND FIFTY-TWO CENTS**” (€83.504,52).

As detailed below, the provision of services will consist of the shotgun sequencing of the genomic DNA extracted from approximately 852 samples.

Therefore, the maximum total budget for each unit of service to be carried out will be:

- **Unit price** for shotgun sequencing of genomic DNA using Illumina (PE 150) sequencer with a coverage per sample of 5Gb: **81 euros (VAT excluded) (*)**
- Approximate total units: **852**

(*) Price that the tenderer, will be able to improve in the ECONOMIC OFFER.

The estimated value for this tender is “**SIXTY-NINE THOUSAND TWELVE EUROS**” (€69.012,00)(*) without VAT, plus “FOURTEEN THOUSAND FOUR HUNDRED NINETY-TWO EUROS AND FIFTY-TWO CENTS” (€ 14.492,52) corresponding to VAT, which adds up to the amount of “**EIGHTY-THREE THOUSAND FIVE HUNDRED FOUR EUROS AND FIFTY-TWO CENTS**” (€83.504,52).

| Concept | Price (VAT not included) |
|------------------------|--------------------------|
| Maximum budget | 69.012,00 Euros |
| Possible modifications | 0,00 Euros |

| | |
|---------------------|------------------------|
| Possible extensions | 0,00 Euros |
| Total | 69.012,00 Euros |

Clause 3. Duration of the contract.

The duration of the service object of this tender will coincide with the validity of the aforementioned project which is until **December 30 of 2023** for the **PI20/00130 project**.

However, if this project were to be found, for any unforeseen reasons, subject to the request of a possible extension, the end date will be susceptible to being extended, at most to the one that is finally authorized.

Clause 4. Description of the service and scope of the object of the contract.

The project aims at characterizing the fecal microbiome composition and function. For this purpose, genomic DNA extracted from fecal samples will be provided to the sequencing platform for library preparation and DNA shotgun sequencing.

Technical specifications for the sequencing platform:

- Illumina sequencing technologies, NovaSeq 6000 with a minimum coverage equal to or greater than 5Gb/sample.

- The budget includes the following conditions:

- Quality control of libraries (concentration, molarity and size)
- Sequencing with NovaSeq 6000 platform and 2x150bp reads
- Quality control of final data
- Delivery of a results report
- Delivery of the obtained files (fastq) via hard disk for each batch of samples (in between 5 and 10 hard)
- Quality analysis and delivery of genome alignment (BAM files)
- Quality assurance with at least 85% of readings with a Q30
- Free replacement of samples in case the readings obtained are insufficient (<5Gb) or do not meet the specified Q30 quality
- Sending data using HDD and/or via FTP at no extra cost
- Result data should be sent in a maximum batch of 200 samples.
- The hard disk containing sequences should be less than 8 weeks from the reception of the samples for each batch of samples.
- Does not include sample shipment

Clause 5. General Conditions.

- No type of subcontracting will be accepted in the global sequencing process.
- The Company must present the accreditation certificate of compliance with the ISO 9001:2015 regulations in **Envelope 1. Companies that do not certify it will be excluded.**
- Likewise, the Company being a “Illumina Certified Service Provider (CSPro) for sequencing” would be preferred.

Clause 6. Billing and payment.

The contractor will invoice the service per batch of samples processed: factures@vhir.org

Each invoice issued must detail the period to which it corresponds, the breakdown / description of expenses by concept, as well as indicate the reference: **LICI 2022-034 SERVICES FOR SEQUENCING OF NUCLEIC ACIDS (PI20/00130).**

The effective payment of the executed services will be made by bank transfer, with a maximum of 30 days / invoice date.

The contracting entity pays for the services once they have been carried out in part or in full and once the invoice has been entered in its register. According to this parameter, the advance payment of part or all of the contract price is not contemplated.

Under no circumstances will the contractor be entitled to a price review for any reason.

The VHIR will only pay the successful bidder for the services actually provided, without being obliged to exhaust the estimated value of the contract/bid budget.

Clause 7. Responsible for the contract.

The person in charge of the contract will be Dr. Chaysavanh Manichanh, Head of the Microbiome Group, who will basically have the functions of management and supervision of the contracts and the billing; follow-up, control and provide instructions for the good execution of the agreements; determine whether the performance conforms to the prescriptions established for its execution, reception of the order after its completion and comply with the obligations assumed by VHIR

Clause 8. Location.

The bidder will have to provide the service object of this tender in its own facilities, which must have the technology and personnel necessary.

Clause 9. Confidentiality, Protection of personal data and Intellectual and Industrial Property

Notwithstanding the provisions of the current legislation on intellectual property, protection of personal data and confidentiality, the companies awarded in this call for tenders will expressly commit to not giving the information and / or data provided by VHIR, or any use not provided in this bidding document, and / or expressly authorized by the Head of the Research Grants Office.

The company that awards the contract derived from this bidding will have to extend to their employees the obligations assumed by the awarded company, regarding confidentiality, intellectual property and protection of data.

All rights worldwide will be exclusively granted to VHIR for the maximum time established in applicable laws and / or international treaties for their exploitation through any format and / or exploitation modality, including the exploitation of any discovery, invention, creation, work, procedure, idea, technique, drawing, design, image or any other intellectual or industrial property right generated, raised or acquired as a consequence of the work carried out by the contracting company (hereinafter "Intellectual Property and / or Industrial"), which derives directly or indirectly from the relationship between VHIR and the company awarded in this tender procedure.

The awarded company must inform VHIR of any discovery, creation, invention, idea or any other element that constitutes or is likely to constitute a right of Industrial and / or Intellectual Property partially or totally developed during the contract period.

In the event that the awarded company discovers or develops any creation of intellectual or industrial property, it will be understood that the discovery or development constitutes confidential information of VHIR.

The awarded company must sign all those public and / or private documents that are necessary, in VHIR's discretion, to allow the accreditation of the ownership of VHIR or the proper protection of the aforementioned Intellectual Property and / or Industrial rights in favor of VHIR or of any designated third party.

The awarded company authorizes VHIR to transform, modify, publish, communicate and exploit the work resulting from the execution of the contract derived from this tender procedure.

Clause 10. Criteria for awarding

Each bidder must provide a technical as well as a financial offer. The contract will be awarded according to criteria based on an approach that meets the best relationship cost-effectiveness, a circumstance that will be evaluated according to the following criteria:

10.1 Criteria that can be assessed through automatic formula.....up to 60 points

The following criteria will be evaluated by automatic formula. The award criteria for assessing the contents of envelope N.º 3 are as follows:

10.1.1 FINANCIAL OFFER.....(up to 50 points)

It will be valued automatically, in accordance with the following formula:

$$P_v = \left[1 - \left(\frac{O_v - O_m}{IL} \right) \times \left(\frac{1}{VP} \right) \right] \times P$$

P_v = Bid Score to Rate

P = Economic criteria points

O_m = Best Offer

O_v = Offer to be Valued

IL = Bid Amount

VP = Weighting Value = 1

* If after applying the automatic formula to a submitted bid, the resulting value is negative, you will be directly assigned zero (0) points of the economic part.

10.1.2 AUTOMATIC EVALUATION CRITERIA.....(up to 10 points)

The automatic evaluation criteria will be carried out proportionally based on the offer that presents a greater reduction, using the following formula:

$$P(N) = M \times (2 - N/B)$$

P(N): Score of offer N

M: Maximum possible score

B: Best offer submitted

N: Offer to be valued

The bidders will provide a responsible statement regarding the evaluation criteria of this section and before the award they will request the documentation that proves it.

- Upgrade of the response from the reception of the samples (less than 8 weeks).....04 points
- The Company being a “Illumina Certified Service Provider (CSPPro) for sequencing”.....04 points
- Allow small batches of samples to be sent (maximum batch of 200 samples).....02 points

10.2. Criteria that can be assessed through [value judgments](#).....up to 40 points.

TECHNICAL OFFER

The following criteria can be assessed through value judgments. The value will be done in compared with the tenders submitted. The highest score will be given to the offer that best fits the technical requirements set out in this document. All other bids will be scored proportionally by comparison. Subsequently, the various proposals evaluated in descending order will be sorted out, and the following formula will be applied to obtain the score,

$$P_{op} = P \times \frac{VT_{op}}{VT_{mv}}$$

P_{op} = Score the offer to value

P = Criteria score

VT_{op} = Technical evaluation of the scored offer

VT_{mv} = Technical evaluation of the best scored offer

The following criteria will be evaluated by value judgments. The award criteria for assessing the contents of envelope N.º 2 are as follows:

10.2.1 Drafting of work proposal.....(up to 30 points)

It must include:

- Report on sample processing (DNA quality and quantity)10 points
- Quality of the sequences with Phred scores higher than Q30.....10 points
- Timelines for shipments of sequences10 points

10.2.2 Memory of experience.....(up to 10 points)

Bidders must present a report of experience explaining their participation in clinical trials.

- Presentation of the organization (“About” information)3 points
- Experience3 points

- Number of sequencing projects handled by the company.....4 points

Bidding companies that do not submit all the documentation relating to the criteria that can be assessed by value judgments will be excluded from the reference tender.

A minimum total score of 26 points is required in the technical assessment so that the bidding companies can continue in the selection process and opt for the criteria that can be evaluated with automatic formulas. **Failure to obtain 26 points or more in the technical bid will be excluded from this tender procedure.**

Barcelona, June 28 of 2022.

CONTRACTING ENTITY

Dr. Joan X. Comella Carnicé

Director

Fundació Hospital Universitari Vall Hebron– Institut de Recerca (VHIR)