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30-715344556

Confidential Quotation

Client: Kristen Gruenthal ALASKA DEPARTMENT OF FISH AND GAME 333 Raspberry Road Anchorage, Alaska 99518 United States +1-9074656129 kristen.gruenthal@alaska.gov	Tracking Number: 30-715344556 Revision Number: R8 Order Name: Pink salmon whole genome resequencing Quotation Effective Date: 21/Jun/2022 Quotation Expiration Date: 21/Sep/2022 Payment Term: Net 30 Days Shipment: Prepaid and Add Contact: NGS@azenta.com , +1-877-(436-3949) ex 1 Account Manager: Subia Muhammdi Account Manager Email: Subia.muhammdi@Azenta.com
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I. Estimated Price

Service	Unit cost	Quantity	Subtotal
Quantitation and cluster generation	\$30.00	11	\$330.00
Illumina NovaSeq S4 sequencing, per flow cell	\$21,600.00	8	\$172,800.00
Illumina NovaSeq S4, per lane	\$5,400.00	1	\$5,400.00
Data delivery, hard drive, included	-	-	\$0.00
Estimated Total for Project :			\$178,530.00
Estimated Price Per Sample :			\$16,230.00

II. Service Description and Turnaround time

Service Type	Sequencing Only
Type of Library Preparation	Genomic DNA from nextera
Sample Type	Illumina-compatible library samples(s)
Number of pools	11
Total number of libraries	1056
Estimated Library Size	850
Library Diversity	High Diversity
Sequencing Configuration	Illumina NovaSeq 2x150bp, per flowcell
Illumina Index Chemistry	Dual index
Illumina Index Length	8 bp
Sequencing Primers	Standard Illumina
Indexing Primers	Standard Illumina
In-line Index Chemistry	n/a
In-line Index Length	n/a
Phi-X Spike-in	Customer declined PhiX spike-in
Deliverables	Quality report, FASTQ files
Level of Service	Research Use Only
Special Comments	BB2203291

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	<p>Each of eleven(11) 1.5ml sample tubes contains whole genome resequencing libraries for 96 dual-indexed individual pink salmon (i.e. each sample tube pools the contents of one 96-well plate). All samples contain the same 96 Nextera dual-index combinations; sample tube contents CANNOT be pooled for sequencing or demultiplexing to the individual library/fish will be impossible.</p> <p>ADF&G requests that each of the 11 samples be sequenced alone on three (3) separate NovaSeq S4 2x150bp lanes (33 lanes total) as per attached quote for up to 40 lanes (SOW BB2203291.pdf). Please also see draft sample submission form for more information on the contents of each of the 11 samples numbered 63213 to 63223.</p>
Package Includes:	
Estimated Turnaround Time	Total 16-21 business days
Additional Benefits	Dedicated Study Manager, weekly project updates

III. How to Start Your Order

- Provide valid Purchase Order or charging instructions (checkout through your online Azenta/GENEWIZ account, email NGS@azenta.com, or call 908-222-0711; ext. 1);
- Provide online sample submission form in your Azenta/GENEWIZ account;
- 11 pre-made library samples meeting requirements below.

IV. Sample Requirements

Sample Type	Quantity	Volume	Comments
Illumina-compatible library samples, in water/EB/low TE, on dry ice	≥15nM	≥20μL	Indices for de-multiplexing and custom requirements in Sample Submission Form

Please see [our website](#) for other starting material types.

For projects with >36 samples, we recommend submitting in v-bottom 96-well PCR plates (Med Supply Partners # 15-3590 or similar), rather than Eppendorf tubes. Please arrange the samples in your shipment in the order in which they are outlined in your sample form.

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V. Notes

1. *Aim: Sequencing of 11 pre-made libraries.*
2. *Sequencing recommendations provided by Azenta/GENEWIZ are based on the client's project goals, typical machine outputs and multiplexing variability. Azenta/GENEWIZ does not guarantee average coverage or on-target specificity for each sample.*
3. *All kits, reagents, analysis pipelines, etc. are routinely updated to remain best-in-class. Please proactively contact Azenta/GENEWIZ if you'd like historical versions, which may be available on a case-by-case basis.*
4. *Multiplexing is performed to the best of Azenta/GENEWIZ's ability to ensure relatively even data distribution amongst samples, but even data distribution is not guaranteed.*
5. *Sequencing yield guarantee only applies to libraries prepared by Azenta/GENEWIZ. Initial sample QC may involve, but is not limited to, the following:*
 - *Assessing library size on the Agilent Tapestation, concentration by Qubit assay, and final quantitation by qPCR*
6. *For premade libraries, Azenta will attempt to demultiplex the data with the index information provided by the Client up to two times, and the best result will be delivered. Additional demultiplexing due to incorrectly provided information by the Client may incur additional charges to be communicated by written notice to the Customer prior to processing.*
7. *Initial sample QC is performed free of charge for samples that are expected to move forward with sequencing. Azenta/GENEWIZ allows one free repeat of initial sample QC with said samples. Any additional repeats can be accepted for a nominal fee. For samples that do not pass QC, Azenta/GENEWIZ cannot guarantee results. However, Azenta/GENEWIZ has great experience working with less than ideal samples.*
8. *As a measure of good faith and to the best of their ability, Azenta/GENEWIZ offers sample storage for up to 3 months following project completion. Sample storage and subsequent sample return (if applicable) is not guaranteed.*
9. *Azenta/GENEWIZ offers free raw FASTQ data storage for up to 6 months. Azenta/GENEWIZ reserves the right to remove said data after 6 months without any notice. Please contact us for further storage options.*
10. *For projects that are quoted on the Illumina platforms, Azenta/GENEWIZ reserves the right to choose between equivalent platforms (e.g. Illumina MiSeq, HiSeq or NovaSeq). Azenta/GENEWIZ will keep the platforms consistent between projects at their best effort, but does not guarantee unless clarified prior to project initiation.*
11. *Estimated turnaround time is based on first-pass processing. If repeat processing is needed, estimated turnaround time is subject to increase.*
12. *If any issues with the project or samples warrant further alignment with the Client after project initiation, the resulted cumulative time during communication shall not be counted towards the originally estimated turnaround time. Azenta/GENEWIZ reserves the right to reassess the turnaround time based on the communications and modifications (if applicable) of project scope. For example, additional processing time may be added to the turnaround if samples require re-accessioning due to discrepancies on arrival (including, but not limited to sample labeling, sample number, etc)*

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VI. General Terms and Conditions

This quotation is exclusive of any applicable customs duties. Applicable taxes and freight in this quotation are estimated. Any order issued in response to this quotation is governed solely by the below referenced terms and conditions or, where applicable, a contract signed by Azenta/GENEWIZ and the customer. No other terms are accepted by Azenta/GENEWIZ.

*This quotation may be revoked at any time until Azenta/GENEWIZ has provided a sales order confirmation.

Terms and conditions can be found at: <https://www.genewiz.com/en/Public/Company/Policies/Terms-Conditions>

Name: _____

Date: _____

Signature: _____

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