

# Sample Submission Guidelines

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## Drive

Accepted submission sample types: cell pellet, gDNA, PCR product.

### Cell pellet

- We recommend the submission of  $\geq 10^6$  eukaryotic cells or  $\geq 10^8$  microorganism cells.
- At least  $10^4$  eukaryotic cells or  $10^6$  microorganism cells must be submitted.
- Samples should be shipped in dry ice.

### gDNA

- We recommend the submission of  $\geq 200$  ng of gDNA with a concentration  $\geq 10$  ng/ $\mu$ L, and a volume  $\geq 10$   $\mu$ L.
- At least 50 ng of gDNA in 10  $\mu$ L must be submitted.
- gDNA should be resuspended in EB (10mM Tris-HCl, pH 8,5) or DNase-, RNase-, and protease-free water.
- The sample purity (OD260/280) should be between 1.8 and 2.0.
- Samples should be shipped in dry ice.

### PCR Product

- For optimal results, the PCR product fragment length should be between 1000 and 2000 bp with the cut site as close to the middle as possible.
- We recommend the submission of  $\geq 100$  ng of DNA with a concentration  $\geq 1$  ng/ $\mu$ L, and a volume  $\geq 10$   $\mu$ L.
- At least 25 ng DNA with a concentration  $\geq 1$  ng/ $\mu$ L, and a volume  $\geq 10$   $\mu$ L in 10  $\mu$ L must be submitted.
- DNA should be resuspended in EB (10mM Tris-HCl, pH 8,5) or DNase-, RNase-, and protease-free water.
- Validate PCR specificity by running the PCR product on an agarose gel. Make sure that only one band is detected.
- Samples should be shipped in dry ice.

## Access

Accepted submission sample types: cell pellet, gDNA, PCR product.

### Cell pellet

- We recommend the submission of  $\geq 10^6$  eukaryotic cells or  $\geq 10^8$  microorganism cells.
- At least  $10^4$  eukaryotic cells or  $10^6$  microorganism cells must be submitted.
- Samples should be shipped in dry ice.

### gDNA

- We recommend the submission of  $\geq 200$  ng of gDNA with a concentration  $\geq 10$  ng/ $\mu$ L, and a volume  $\geq 10$   $\mu$ L.
- At least 50 ng of gDNA in 10  $\mu$ L must be submitted.
- gDNA should be resuspended in EB (10mM Tris-HCl, pH 8,5) or DNase-, RNase-, and protease-free water.
- The sample purity (OD260/280) should be between 1.8 and 2.0.
- Samples should be shipped in dry ice.

## PCR Product

- For optimal results, the PCR product fragment length should be between 1000 and 2000 bp with the cut site as close to the middle as possible.
- We recommend the submission of  $\geq 100$  ng of DNA with a concentration  $\geq 1$  ng/ $\mu$ L, and a volume  $\geq 10$   $\mu$ L.
- At least 25 ng DNA with a concentration  $\geq 1$  ng/ $\mu$ L, and a volume  $\geq 10$   $\mu$ L. in 10  $\mu$ L must be submitted.
- DNA should be resuspended in EB (10mM Tris-HCl, pH 8,5) or DNase-, RNase-, and protease-free water.
- Validate PCR specificity by running the PCR product on an agarose gel. Make sure that only one band is detected.
- Samples should be shipped in dry ice.

## Screen Amplicon Seq

Accepted submission sample types: cell pellet, gDNA, PCR product.

### Cell pellet

- We recommend the submission of  $\geq 10^6$  eukaryotic cells or  $\geq 10^8$  microorganism cells.
- At least  $10^4$  eukaryotic cells or  $10^6$  microorganism cells must be submitted.
- Samples should be shipped in dry ice.

### gDNA

- We recommend the submission of  $\geq 200$  ng of gDNA with a concentration  $\geq 10$  ng/ $\mu$ L, and a volume  $\geq 10$   $\mu$ L.
- At least 50 ng of gDNA in 10  $\mu$ L must be submitted.
- gDNA should be resuspended in EB (10mM Tris-HCl, pH 8,5) or DNase-, RNase-, and protease-free water.
- The sample purity (OD<sub>260/280</sub>) should be between 1.8 and 2.0.
- Samples should be shipped in dry ice.

## PCR Product

- For optimal results, the PCR product fragment length should be between 200 and 400 bp with the cut site as close to the middle as possible.
- We recommend the submission of  $\geq 100$  ng of DNA with a concentration  $\geq 1$  ng/ $\mu$ L, and a volume  $\geq 10$   $\mu$ L.
- At least 25 ng DNA with a concentration  $\geq 1$  ng/ $\mu$ L, and a volume  $\geq 10$   $\mu$ L. in 10  $\mu$ L must be submitted.
- DNA should be resuspended in EB (10mM Tris-HCl, pH 8,5) or DNase-, RNase-, and protease-free water.
- Validate PCR specificity by running the PCR product on an agarose gel. Make sure that only one band is detected.
- Samples should be shipped in dry ice.

## WGS

Accepted submission sample types: cell pellet, gDNA.

### Cell pellet

- We recommend the submission of  $\geq 10^6$  eukaryotic cells or  $\geq 10^8$  microorganism cells.
- At least  $10^4$  eukaryotic cells or  $10^6$  microorganism cells must be submitted.
- Samples should be shipped in dry ice.

### gDNA

- We recommend the submission of  $\geq 1\mu\text{g}$  of gDNA with a concentration  $\geq 20\text{ng}/\mu\text{L}$ , and a volume  $\geq 20\ \mu\text{L}$ .
- At least 500 ng of gDNA in 10  $\mu\text{L}$  must be submitted.
- gDNA should be resuspended in EB (10mM Tris-HCl, pH 8,5) or DNase-, RNase-, and protease-free water.
- The sample purity (OD260/280) should be between 1.8 and 2.0.
- Samples should be shipped in dry ice.

## WES

Accepted submission sample types: cell pellet, gDNA.

### Cell pellet

- We recommend the submission of  $\geq 10^6$  eukaryotic cells or  $\geq 10^8$  microorganism cells.
- At least  $10^4$  eukaryotic cells or  $10^6$  microorganism cells must be submitted.
- Samples should be shipped in dry ice.

### gDNA

- We recommend the submission of  $\geq 1\mu\text{g}$  of gDNA with a concentration  $\geq 20\text{ng}/\mu\text{L}$ , and a volume  $\geq 20\ \mu\text{L}$ .
- At least 500 ng of gDNA in 10  $\mu\text{L}$  must be submitted.
- gDNA should be resuspended in EB (10mM Tris-HCl, pH 8,5) or DNase-, RNase-, and protease-free water.
- The sample purity (OD260/280) should be between 1.8 and 2.0.
- Samples should be shipped in dry ice.

## Targeted Sequencing

Accepted submission sample types: cell pellet, gDNA.

### Cell pellet

- We recommend the submission of  $\geq 10^6$  eukaryotic cells or  $\geq 10^8$  microorganism cells.
- At least  $10^4$  eukaryotic cells or  $10^6$  microorganism cells must be submitted.
- Samples should be shipped in dry ice.

## gDNA

- We recommend the submission of  $\geq 1\mu\text{g}$  of gDNA with a concentration  $\geq 20\text{ng}/\mu\text{L}$ , and a volume  $\geq 20\ \mu\text{L}$ .
- At least 500 ng of gDNA in 10  $\mu\text{L}$  must be submitted.
- gDNA should be resuspended in EB (10mM Tris-HCl, pH 8,5) or DNase-, RNase-, and protease-free water.
- The sample purity (OD260/280) should be between 1.8 and 2.0.
- Samples should be shipped in dry ice.

## RNA Seq

Accepted submission sample type: cell pellet, total RNA.

### Cell pellet

- We recommend the submission of  $\geq 10^6$  eukaryotic cells or  $\geq 10^8$  microorganism cells.
- At least  $10^4$  eukaryotic cells or  $10^6$  microorganism cells must be submitted.
- Samples should be shipped in dry ice.

### Total RNA

- We recommend the submission of  $\geq 2\mu\text{g}$  of Total RNA with a concentration  $\geq 50\text{ng}/\mu\text{L}$ , and a volume  $\geq 20\ \mu\text{L}$ .
- At least 500 ng of Total RNA in 10  $\mu\text{L}$  must be submitted.
- Total RNA should be resuspended in DNase-, RNase-, and protease-free water.
- The sample purity (OD260/280) should be between 1.8 and 2.2.
- The RIN should be  $\geq 6$ .
- Samples should be shipped in dry ice.