OmniPlex Amplification for Genetic, Epigenetic, and Expression Analysis—Applications in Genomics, Pharmacogenomics, Diagnostics, Biosurveillance, and Forensics

Emmauel Kamberov, Eric Bruening, Takao Kurihara, Alice Lu, Joseph M'Mwirichia, Jon Pinter, Irina Sleptsova, Jennifer Sun, Tim Tessler, Vladimir Makarov, and John Langmore

Rubicon Genomics, Inc., Ann Arbor, MI, USA

langmore@rubicongenomics.com

Rubicon Genomics, Inc.
2110 Plymouth Road, Ann Arbor, MI 48105 USA

www.rubicongenomics.com

Abstract

WGA from ~10 ng free circulating DNA

The OmniPlex Amplification kit is used to amplify DNA from single cells, fixed tissue samples, archived DNA, and blood spots. OmniPlex amplification data can be used for analysis, validation, and discovery of the genetic, epigenetic, and expression marker space in cancer and non-cancer samples. OmniPlex Amplification is performed using the OmniPlex Amplification kit, which takes advantage of the OmniPlex Amplification protocol.

Figure 1: OmniPlex Amplification for Genetic, Epigenetic, and Expression Analysis—Applications in Genomics, Pharmacogenomics, Diagnostics, Biosurveillance, and Forensics

1. **OmniPlex Amplification Kit**
   - Amplification kit is used for amplification of DNA from single cells, fixed tissue samples, archived DNA, and blood spots.

2. **OmniPlex Amplification Protocol**
   - The OmniPlex Amplification protocol is used to amplify DNA from single cells, fixed tissue samples, archived DNA, and blood spots.

3. **OmniPlex Amplification Data**
   - OmniPlex amplification data can be used for analysis, validation, and discovery of the genetic, epigenetic, and expression marker space in cancer and non-cancer samples.

4. **OmniPlex Amplification Kit Components**
   - OmniPlex Amplification kit components include the OmniPlex Amplification kit, which takes advantage of the OmniPlex Amplification protocol.

5. **OmniPlex Amplification Data Analysis**
   - OmniPlex amplification data can be used for analysis, validation, and discovery of the genetic, epigenetic, and expression marker space in cancer and non-cancer samples.

6. **OmniPlex Amplification Data Validation**
   - OmniPlex amplification data can be validated using the OmniPlex Amplification protocol.

7. **OmniPlex Amplification Data Discovery**
   - OmniPlex amplification data can be used for discovery of the genetic, epigenetic, and expression marker space in cancer and non-cancer samples.

8. **OmniPlex Amplification Data Applications**
   - OmniPlex amplification data can be used in genomics, pharmacogenomics, diagnostics, biosurveillance, and forensics.

---

**OmniPlex Amplification Kit**

The OmniPlex Amplification kit is used to amplify DNA from single cells, fixed tissue samples, archived DNA, and blood spots. OmniPlex amplification data can be used for analysis, validation, and discovery of the genetic, epigenetic, and expression marker space in cancer and non-cancer samples. The OmniPlex Amplification kit components include the OmniPlex Amplification kit, which takes advantage of the OmniPlex Amplification protocol.

---

**OmniPlex Amplification Protocol**

The OmniPlex Amplification protocol is used to amplify DNA from single cells, fixed tissue samples, archived DNA, and blood spots. The OmniPlex Amplification protocol components include the OmniPlex Amplification kit, which takes advantage of the OmniPlex Amplification protocol.

---

**OmniPlex Amplification Data**

OmniPlex amplification data can be used for analysis, validation, and discovery of the genetic, epigenetic, and expression marker space in cancer and non-cancer samples. OmniPlex amplification data can be validated using the OmniPlex Amplification protocol.

---

**OmniPlex Amplification Data Analysis**

OmniPlex amplification data can be analyzed using the OmniPlex Amplification protocol. OmniPlex amplification data analysis can be used to validate and discover the genetic, epigenetic, and expression marker space in cancer and non-cancer samples.

---

**OmniPlex Amplification Data Validation**

OmniPlex amplification data can be validated using the OmniPlex Amplification protocol. OmniPlex amplification data validation can be used to validate and discover the genetic, epigenetic, and expression marker space in cancer and non-cancer samples.

---

**OmniPlex Amplification Data Discovery**

OmniPlex amplification data can be discovered using the OmniPlex Amplification protocol. OmniPlex amplification data discovery can be used to validate and discover the genetic, epigenetic, and expression marker space in cancer and non-cancer samples.

---

**OmniPlex Amplification Data Applications**

OmniPlex amplification data can be used in genomics, pharmacogenomics, diagnostics, biosurveillance, and forensics. OmniPlex amplification data applications can be used to validate and discover the genetic, epigenetic, and expression marker space in cancer and non-cancer samples.