illumina®

DesignStudio Software Release Notes

DesignStudio v2.1

For MiSeq, HiSeq and NextSeq systems

September 29, 2015

Revision History

Revision	Date	Description of Change
01	Sept 29, 2015	Release version

Introduction

These Release Notes detail the key changes to software components for DesignStudio v2.1 since the v2.0 release.

Because DesignStudio is an Illumina hosted web application, the new release affects all customers.

NEW FEATURES:

- Added new assay type, TruSeq Custom Amplicon Low Input:
    - TruSeq Custom Amplicon Low Input is available for designs made with amplicon sizes of 150 bp, 175 bp, and 250 bp.
    - The assay selector workflow now includes TruSeq Custom Amplicon Low Input.
    - The assay comparison chart now includes TruSeq Custom Amplicon Low Input.
- Added new option for TruSeq Custom Amplicon called Dual Pool Designs:
    - Dual pool designs are an exactly mirrored, complementary set of probes based on the original single pool designs.
    - The resulting panel requires 2 separate oligonucleotide pools to product separate amplicon reactions.
    - Dual pool designs can be created at the beginning of a TruSeq Custom Amplicon workflow, or after the design result is complete (on the View Designs page).
    - Dual pool designs can be ordered separately, or together as a pair.
- Added extended species option for TruSeq Custom Amplicon designs:
    - These species are not fully wet lab tested.
    - The design algorithms for these species are identical to the full validated TruSeq Custom Amplicon versions.
    - The new species available, along with their respective reference genome/variant build and source are listed in the following table:

Species	Build	Variant Version	Variant Source
Zea mays (corn)	AGPv3(3.1)	z80	Ensembl
Sus scrofa (pig)	Sscrofa10.2(10.2)	dbSNP_138	Ensembl
Oryza sativa japonica (rice)	IRGSP-1.0(1.0)	variant80	Ensembl
Canis familiaris (Dog)	CanFam3.1(81)	dbSNP_139	Ensembl
Gallus gallus (Chicken)	Galgal4(81)	dbSNP-140	Ensembl
Glycine max (Soybean)	Gm01(V1.0)	no variant data	Ensembl(Gene)
Ovis aries (Sheep)	Oar_v3.1(81)	dbSNP-143	Ensembl

- A new Ask for a Quote feature is now available for customers unable to order products online via DesignStudio and MyIllumina.
  - o Upon requesting a quote, the customer information is passed along to the Illumina Sales Team for follow-up.

DEFECT REPAIRS:

- None

KNOWN ISSUES:

- None