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Template
Preparation
And

**~~Beginner's Guide
to PacBio SMRT
Sequencing Data
Analysis PacBio
SMRT~~**

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**Sequencing:
Overview**

**Pacific
Biosciences
Sequencing**

**PacBio
Sequencing -
How it Works
Webinar | PacBio
Sequencing
Overview and
Applications
Bioinformatic
Lunch \u0026amp;**

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***Learn: A Quick
Guide to
Metagenomic
Analysis with
PacBio HiFi
Reads***

~~**Opportunities for
using PacBio
Long-read
Sequencing for
COVID-19
Research PacBio
HiFi Reads
Improve Genome**~~

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**Sequencing at
HudsonAlpha
Introduction to
PacBio Highly
Accurate Long-
Read Sequencing
HiFi Sequencing
—Unlock Your
Next Great
Discovery Next
Generation
Sequencing:
PacBio Sequel
System *PacBio***

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Long Read

Cramer: This

biotech stock

could be worth

over \$100 billion

on an FDA

approval PACB

Stock- Wake UP!

This Isn't Over

Yet! ~~I sold ILMN~~

stock | Illumina

stock update

Is PACIFIC

BIOSCIENCES

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**Stock A Buy |
PACB Stock
Genomics News
Analysis Forecast
| Stocks to buy
now Pacific Bio
(PACB) Stock
Going to \$20 and
Advice from a
Small Time
Investor What Is
~~16s rRNA~~
sequencing
Microbiome**

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Discovery 3: 16S
Variable Regions
Helicos True
Single Molecule
Sequencing

**How nanopore
sequencing
works**

**3 Pacific
Biosciences
Sequencing**

**PacBio Update
on Products and
HiFi Applications**

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~~Introduction to
Highly Accurate
Long-Read And
Sequencing (HiFi
Sequencing)
Bioinformatics
Lunch \u0026
Learn: HiFi
Assembly
Targeted PacBio
Sequencing
using Sage HLS-
CATCH Webinar:
An Introduction~~

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Template
to PacBio's Long
Read Sequencing
Explore the And
PacBio No-Amp
Targeted
Sequencing
Application
*Introduction to
SMRT
Sequencing
Single Molecule
Real Time
Sequencing -
Pacific*

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Guide Pacific
Biosciences And

Template
Preparation
Template
Preparation
Protocols. This
guide describes
an optimized
procedure for
preparing your
DNA template for
sequencing on

the PacBio

**System. This
Blunt-End Ligation -
tion protocol, is
suitable for all
libraries (greater
than 250 bp
amplicons) and
offers a total
preparation time
of approximately
four hours.**

Guide - Pacific

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Template
Preparation and

...

**SMRTbell™
Template
Preparation and
Binding Steps. •
Polish ends of
fragments
suitable for
ligation • 5'
overhangs are
filled in by T4**

DNA Polymerase-

**• 3' overhangs
are removed by**

T4 DNA

**Polymerase • T4
PNK**

**phosphorylates
the 5' hydroxyl
group • Repaired
fragments can be
ligated to blunt
adaptors
(recommended
method)**

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**Fragment DNA
and
Concentration.**

**Template
Preparation -
PacBio**

**For template
preparation, the
SMRTbell™
Template Prep
Kit is required.
The kit includes,
buffers, repair**

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**enzymes, ligase,
exonucleases,
hairpin adapters
and sequencing
primers. Kits are
available in
manual and high-
throughput
formats. For
purification steps
throughout the
procedure,
AMPure® PB
beads are also**

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required.
Template

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SMRTbell
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Template
Preparation and
Sequencing
Guide. For

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**Research Use
Only. Not for use
in diagnostic
procedures. P/N
000-710-821-13
... DNA Quality
Pacific
Biosciences'
template
preparation
process does not
use ampli-
fication
techniques. As a**

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result, input DNA
quality will be
directly
Documentation -
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Guide - Pacific
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Sequencing •
PacBio
guidelines -
SMRTbell™
libraries •
Procedure &
Checklist- 250 bp
Amplicon Library
Preparation and
Sequencing •
Procedure &
Checklist - 500**

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**bp Template
Preparation and
Sequencing •
Procedure &
Checklist- 1 kb
Template ...**

**PacBio Template
Preparation -
Speaker Deck
For PacBio
library
preparation, it is
critical to**

determine the concentration of the double- And stranded DNA, since only double-stranded DNA will be converted into sequencing templates. RNA, dNTPs, and single-stranded DNA included in the concentration

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Template
Proprietary And

**measurement
will skew the
concentration
reading.**

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FOR
SUCCESSFUL
SMRTbell
LIBRARIES

**After size
selection, each
fraction was PCR-**

**enriched prior to
SMRTbell**

**template library
preparation.**

**cDNA SMRTbell
libraries were
prepared using
1-3 μg of PCR
enriched size-
selected samples,
followed by DNA
damage repair
and SMRTbell
ligation using**

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**the SMRTbell
Template Prep
Kit 1.0 (Pacific
Biosciences,
Menlo Park, CA,
USA). .. A second
size selection
was performed
on the 3-6 kbp
and 5-10 kbp
fractions to
remove short
contaminating
SMRTbell**

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templates.
Template

**Smrtbell Preparation And
Template Prep
Kit 1 0 | pacific
biosciences |
Bioz**

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pacific
biosciences
template
preparation and
is additionally
useful. You have**

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the books to
browse. The
suitable book,
fiction, history,
novel, scientific
research, as with
ease as various
extra sorts of
books are readily
comprehensible
here. As this
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it ends stirring
visceral one of
the favored
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preparation and
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Abstract and

Figures

Automation of

the PacBio 10 kb

Template

Preparation

using the

SMRTbell

Template Prep

kit for the

sequencing of

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**bacterial
genomes on the
Agilent
Automated
Liquid
Handling...**

**Automation of
PacBio SMRTbell
10 kb Template
Preparation ...**
**The SMRTbell
Template
Preparation kit**

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provided PacBio
SMRTBell 10 kb
Library
Preparation Kit
... I. Agilent DNA
7500 and DNA
12000 Kit Quick
Start Guide.
2013 ...

Automation of

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PacBio SMRTbell
NGS library
preparation for

...

**the Customer
Portal,
SampleNet and
DevNet -
Template Prep -
Guide - Pacific
Biosciences®
Template
Preparation and
Sequencing -**

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Template
And

**Procedures &
Checklists for
250 bp-10 kb
libraries –
PacBio
guidelines -
SMRTbell™
libraries -
Software Getting
Started Guide •
Help Guides are
available through
the “Help” tab of
the SW - RS ...**

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PacBio RS II
Workflow - And
Speaker Deck

**This template is
suitable for
template-
directed
sequencing, in
particular single-
molecule real-
time sequencing
as provided by
Pacific**

**California, Inc.
and as further
described, e.g.,
in Eid, et al.
(2009) Science
323:133-138;
Levene, et al.
(2003) Science
299: 682-686;
Korlach, et al.
(2008)
Nucleotides,
Nucleosides, and**

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Template

**Nucleic Acids
27:1072-1083;**

Travers, et al.

(2010) Nucl.

Acids Res.

38(15):e159;

Korlach, et al.

(2010) Methods

in Enzymology

472:431-455; and

U.S. Pat. Nos ...

METHODS AND
COMPOSITIONS

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**FOR NUCLEIC
ACID SAMPLE
PREPARATION**

**The Pacific
Biosciences®
library
preparation
process does not
utilize
amplification
techniques and
resulting library
molecules are
directly used as**

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Template
Preparation And

**templates for the
sequencing
process. As such,
the quality of the
DNA starting
material will be
directly reflected
in the
sequencing
results.**

PACBIO®
PROJECT
SUBMISSION RE

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COMMENDATIO
NS

**The Pacific And
Biosciences
Binding
Calculator was
used to
determine the
amount of
primers and
polymerase
needed for the
binding
reactions, based**

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Template
Preparation And
Pacific
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proprietary p6
SA DNA
polymerase v2
were bound to
the library and
then the
MagBead Kit
(Pacific
Biosciences) was

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Template
used to bind the
library ...

Preparation And
SMRT Gate: A
method for
validation of
synthetic
constructs ...

**The PacBio DNA
template prep kit
1.0 was used for
the SMRTbell
sequencing
template**

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Template
**preparation in
every case.**

**SMRTbell
libraries were
bound to
polymerases by
using the
DNA/polymerase
binding kit P6
(P/N
100-356-300)
and v2 primers.**

Long-Read

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Template
Sequencing
Reveals a GC
Pressure during
the ...

**Wall Street
brokerages
expect Pacific
Biosciences of
California, Inc.
(NASDAQ:PACB)
to post sales of
\$23.23 million
for the current
fiscal quarter,**

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Zacks reports.

Three analysts

have issued

estimates for

Pacific

Biosciences of

California's

earnings. The

lowest sales

estimate is

\$22.45 million

and the highest

is \$24.24 million.

Pacific

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Template
Biosciences of
California posted
sales of \$27.93
[...]

\$23.23 Million in
Sales Expected
for Pacific
Biosciences ...
Pacific
Biosciences
sequencing
libraries were
generated from

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Template
Preparation And
Pacific
Biosciences RS
following
manufacturer's r
ecommendations.
The 2000 bp
amplicons were
sheared to ~250
bp in size prior
to library
construction

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Template
Preparation Aid

**following
manufacturer's
recommendation
s (Pacific
Biosciences).**

**Pacific
biosciences
sequencing
technology for
genotyping ...
Massive parallel
sequencing or
massively**

parallel sequencing is any of several high-throughput approaches to DNA sequencing using the concept of massively parallel processing; it is also called next-generation sequencing

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(NGS) or second-generation sequencing. Some of these technologies emerged in 1994-1998 and have been commercially available since 2005.

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PacBio
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How it Works
Webinar | PacBio

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Overview and
Applications And
Bioinformatic
Lunch \u0026
Learn: A Quick
Guide to
Metagenomic
Analysis with
PacBio HiFi
Reads
~~Opportunities for
using PacBio
Long-read~~**

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COVID-19
Research PacBio
HiFi Reads
Improve Genome
Sequencing at
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*Introduction to
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Accurate Long-
Read Sequencing
HiFi Sequencing
-Unlock Your
Next Great***

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**Discovery Next
Generation**

Sequencing: And

**PacBio Sequel
System *PacBio
Long Read***

***Cramer: This
biotech stock
could be worth
over \$100 billion
on an FDA***

***approval PACB
Stock- Wake UP!
This Isn't Over***

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~~Yet! I sold ILMN
stock | Illumina
stock update~~

**Is PACIFIC
BIOSCIENCES
Stock A Buy |
PACB Stock
Genomics News
Analysis Forecast
| Stocks to buy
now Pacific Bio
(PACB) Stock
Going to \$20 and
Advice from a**

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Small Time

Investor What Is

16s rRNA

sequencing □

Microbiome

Discovery 3: 16S

Variable Regions

Helicos True

Single Molecule

Sequencing

How nanopore

sequencing

works □□□□□□□

□□3 *Pacific*

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PacBio Update
on Products and
HiFi Applications
Introduction to
Highly Accurate
Long-Read
Sequencing (HiFi
Sequencing)
Bioinformatics
Lunch \u0026amp;
Learn: HiFi
Assembly***

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Targeted PacBio
Sequencing
using Sage HLS-
CATCH Webinar:
An Introduction
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Read Sequencing
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~~**PacBio No-Amp**~~
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~~**Sequencing**~~
~~**Application**~~
Introduction to
SMRT

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Template
Preparation
Protocols. This
guide describes

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**an optimized
procedure for
preparing your
DNA template for
sequencing on
the PacBio
System. This
Blunt-End Liga. -
tion protocol, is
suitable for all
libraries (greater
than 250 bp
amplicons) and
offers a total**

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Template
preparation time
of approximately
four hours. And

Guide - Pacific
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Preparation and

...

SMRTbell™
Template
Preparation and
Binding Steps. •
Polish ends of

fragments

suitable for

ligation • 5' And

overhangs are

filled in by T4

DNA Polymerase-

• 3' overhangs

are removed by

T4 DNA

Polymerase • T4

PNK

phosphorylates

the 5' hydroxyl

group • Repaired

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**fragments can be
ligated to blunt
adaptors
(recommended
method)**

**Fragment DNA
and
Concentration.**

**Template
Preparation -
PacBio**

**For template
preparation, the**

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SMRTbell™

Template Prep

Kit is required.

The kit includes, buffers, repair enzymes, ligase, exonucleases, hairpin adapters and sequencing primers. Kits are available in manual and high-throughput formats. For

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Template
Preparation And

**purification steps
throughout the
procedure,
AMPure® PB
beads are also
required.**

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Preparation**
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Guide. For
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in diagnostic
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... DNA Quality
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template

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preparation
process does not
use ampli- And
fication
techniques. As a
result, input DNA
quality will be
directly
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libraries •

Procedure &

Checklist- 250 bp

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**Amplicon Library
Preparation and
Sequencing •
Procedure &
Checklist - 500
bp Template
Preparation and
Sequencing •
Procedure &
Checklist- 1 kb
Template ...**

**PacBio Template
Preparation -**

Speaker Deck

For PacBio

library

preparation, it is critical to determine the concentration of the double-stranded DNA, since only double-stranded DNA will be converted into sequencing templates. RNA,

**dNTPs, and
single-stranded
DNA included in
the
concentration
measurement
will skew the
concentration
reading.**

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FOR
SUCCESSFUL**

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LIBRARIES

After size selection, each fraction was PCR-enriched prior to SMRTbell template library preparation. cDNA SMRTbell libraries were prepared using 1-3 μg of PCR enriched size-

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Template
Preparation And

**selected samples,
followed by DNA
damage repair
and SMRTbell
ligation using
the SMRTbell
Template Prep
Kit 1.0 (Pacific
Biosciences,
Menlo Park, CA,
USA). .. A second
size selection
was performed
on the 3-6 kbp**

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Preparation And
**and 5-10 kbp
fractions to
remove short
contaminating
SMRTbell
templates.**

**Smrtbell
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biosciences |
Bioz
this books guide
pacific**

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Preparation And
is additionally
useful. You have
remained in right
site to start
getting this info.
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preparation and
partner that we

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fiction, history,
novel, scientific
research, as with
ease as various

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it ends stirring
visceral one of
the favored
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the PacBio 10 kb
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Preparation

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kit for the
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bacterial
genomes on the
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Automated
Liquid
Handling...

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PacBio SMRTbell**

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Template**

**Preparation kit
from Pacific. ...**

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**provided PacBio
SMRTBell 10 kb**

Library

**Preparation Kit
... I. Agilent DNA**

7500 and DNA

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libraries -
Software Getting

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**Started Guide •
Help Guides are
available through
the “Help” tab of
the SW - RS ...**

**PacBio RS II
Workflow -
Speaker Deck**

**This template is
suitable for
template-
directed
sequencing, in**

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**particular single-
molecule real-
time sequencing
as provided by
Pacific**

**Biosciences of
California, Inc.
and as further
described, e.g.,
in Eid, et al.**

**(2009) Science
323:133-138;
Levene, et al.
(2003) Science**

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299: 682-686;

Korlach, et al.

(2008)

Nucleotides,

Nucleosides, and

Nucleic Acids

27:1072-1083;

Travers, et al.

(2010) Nucl.

Acids Res.

38(15):e159;

Korlach, et al.

(2010) Methods

in Enzymology

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**472:431-455; and
U.S. Pat. Nos ...**

Preparation And

**METHODS AND
COMPOSITIONS
FOR NUCLEIC
ACID SAMPLE
PREPARATION**

**The Pacific
Biosciences®**

library

preparation

process does not

utilize

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Template
Preparation And

**amplification
techniques and
resulting library
molecules are
directly used as
templates for the
sequencing
process. As such,
the quality of the
DNA starting
material will be
directly reflected
in the
sequencing**

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results.
Template

PACBIO® And
PROJECT
SUBMISSION RE
COMMENDATIO
NS

**The Pacific
Biosciences
Binding
Calculator was
used to
determine the
amount of**

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Template
Proprietary and
SA DNA

**primers and
polymerase
needed for the
binding
reactions, based
on an insert size
of 4500 bp. The
primers and
Pacific
Biosciences
proprietary p6
SA DNA
polymerase v2
were bound to**

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MagBead Kit
the library and
then the
(Pacific
Biosciences) was
used to bind the
library ...

**SMRT Gate: A
method for
validation of
synthetic
constructs ...**
The PacBio DNA

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Preparation and

**template prep kit
1.0 was used for
the SMRTbell
sequencing
template
preparation in
every case.
SMRTbell
libraries were
bound to
polymerases by
using the
DNA/polymerase
binding kit P6**

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**(P/N
100-356-300)
and v2 primers.**

**Long-Read
Sequencing
Reveals a GC
Pressure during
the ...**

**Wall Street
brokerages
expect Pacific
Biosciences of
California, Inc.**

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Biosciences
Template
(NASDAQ:PACB)

**to post sales of
\$23.23 million
for the current
fiscal quarter,
Zacks reports.
Three analysts
have issued
estimates for
Pacific
Biosciences of
California's
earnings. The
lowest sales**

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**estimate is
\$22.45 million
and the highest
is \$24.24 million.
Pacific
Biosciences of
California posted
sales of \$27.93
[...]**

**\$23.23 Million in
Sales Expected
for Pacific
Biosciences ...**

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**Pacific
Biosciences
sequencing And
libraries were
generated from
pooled PCR
amplicons and
sequenced on
Pacific
Biosciences RS
following
manufacturer's r
ecommendations.
The 2000 bp**

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Template
Preparation And

amplicons were sheared to ~250 bp in size prior to library construction following manufacturer's recommendations (Pacific Biosciences).

Pacific biosciences sequencing

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technology for
genotyping ...

**Massive parallel
sequencing or
massively
parallel
sequencing is
any of several
high-throughput
approaches to
DNA sequencing
using the
concept of
massively**

parallel processing; it is also called next-generation sequencing (NGS) or second-generation sequencing. Some of these technologies emerged in 1994-1998 and have been commercially

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Biosciences
available since
2005.
Template
Preparation And