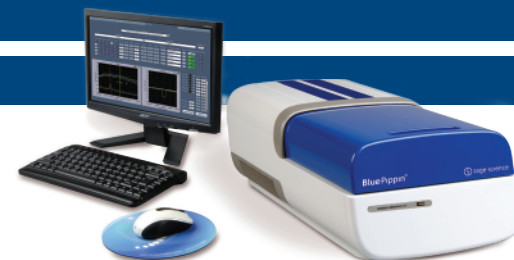


# BluePippin™ Cassette Kit Reference Chart

Software v.6.11 Cassette Definition Set 15



**For Band Capture:** use **0.30** for optical calibration setting

Product Number Midori Green*	Size Range <sup>#</sup>	Collection Times	Minimum size Distribution as Expressed by (CV)	Electrophoresis Voltage	Gel Cassette Type	Marker Type	Marker
12100511	5 – 10kb	2 – 5 hrs	N/A	Pulsed field	0.75% agarose	External	D1
12100511	2 – 5kb	1 – 2.5 hrs	N/A	Pulsed field	0.75% agarose	External	D1
12100512	250 – 1500 bp	50 – 140 min	N/A	100 V, constant	1.5% agarose	External	A1

\* Midori Green is a DNA binding dye, allowing optical detection of DNA. <sup>#</sup>Size range specifications are based on "Tight" mode collections, see table next page.

**For Size Selection:** use **0.60** for optical calibration setting

Size Range <sup>#</sup>	Product Number Dye-Free**	Collection Times	Minimum size Distribution as Expressed by (CV)	Electrophoresis Voltage	Gel Cassette Type	Marker Type	Marker
40, or 50 kb	12100520	7 or 8hr	20%	Pulsed field	0.75% agarose	External	W1
18 – 27 kb	12100515	3.8 – 4.3 hr	20%	Pulsed field	0.75% agarose	External	T1
10 – 18 kb	12100514	2.9 – 3.7 hr	20%	Pulsed field	0.75% agarose	External	U1
>4 – 10 kb†	12100513	2.0 hr	NA	Pulsed field	0.75% agarose	External	S1
>4 – 10 kb††	12100579††	2.0 hr	NA	Pulsed field	0.75% agarose	External	S1
3 – 10 kb	12100513	2.3 – 3.1 hr	20%	Pulsed field	0.75% agarose	External	S1
2 – 6 kb	12100513	1.4 – 2.4 hr	20%	Pulsed field	0.75% agarose	External	S1
1 – 6 kb	12100513	3 – 8 hr	10%	25 V, constant	0.75% agarose	External	S1
250 – 1500 bp	12100517	28 – 75 min	8%	150 V, constant	1.5% agarose	Internal	R2
100 – 600 bp	12100518	50 – 100 min	8%	100 V, constant	2% agarose	Internal	V1
100 – 600 bp	12100522‡	50 – 100 min	8%	100 V, constant	2% agarose	Internal	X1
100 – 600 bp	12100519	50 – 100 min	8%	100 V, constant	2% agarose	External	M1
90 – 250 bp	12100516	50 – 100 min	8%	100 V, constant	3% agarose	Internal	Q2

\*\* Sample DNA is not detected. Fluorescently labeled DNA markers are used to determine collection timing.

<sup>#</sup> Size range specifications are based on "Tight" mode collections, see next page.

† "High-Pass" protocol. Collects remaining DNA fragments above target size value.

†† "High-Pass" protocol, specifically for PacBio® ~20kb SMRTbell™ template protocol

‡ 25µl elution module volume, other cassettes have 40µl volumes.

# BluePippin™ Cassette Kit Reference Chart

Software v.6.11 Cassette Definition Set 15



Cassette Kit Product Number	Cassette Type Software Definitions	DNA Control Kit Product Number
12100511	0.75% Band Capture 2 – 5 kb Marker D1	12100555
12100511	0.75% Band Capture 5 – 10 kb Marker D1	12100556
12100512	1.5% Band Capture 250 – 1500 bp Marker A1	12100557
12100515	0.75% DF 18 – 27 kb Marker T1	12100558
12100514	0.75% DF 10 – 18 kb Marker U1	12100558
12100513	0.75% DF 2 – 6 kb Marker S1	12100548
12100513	0.75% DF 3– 10 kb Marker S1	12100548
12100513	0.75% DF Low Voltage 2 – 6 kb Marker S1	12100548
12100517	1.5% DF Marker R2	12100554
12100518	2% DF Marker V1	
12100519	2% EF Marker M1	12100546
12100516	3% DF Marker Q2	12100549

	DNA Target Size Ranges	
	Tight Mode	Range Mode
0.75% agarose	40 or 50 kb*	NA
0.75% agarose	18 – 27 kb	13 – 33 kb
0.75% agarose	10 – 18 kb	9 – 20 kb
0.75% agarose	5 – 10 kb	3 – 12 kb
0.75% agarose	2 – 6 kb	1 – 7 kb
1.5% agarose	250 – 1500 bp	200 – 1700 bp
3% agarose	90 – 250 bp	80 – 270 bp

\* Size selection may be made at these target values only. However the selection width may be widened to increase sample yield.



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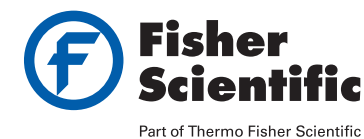
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