

General Information

Application	DNA
Kit	GeneRead™ DNA Library Q Kit
Sample material	DNA
Short protocol name	Standard
Version	2
Full protocol name	Library preparation for QIAGEN GeneReader [®] instruments V2
Editable parameters	–
Required QIAcube software versions	Firmware version FIW-50-001-L_FW_MB.hex and PLC program version FIW-50-002-J_PLC_MB.prs or higher; available from the QIAcube web portal

Shaker

Material	8 µl PCR-enriched DNA + 3.2 µl Adapter Q (bar coded); for detailed information, see "Comments" on the next page.
Vessel	2 ml safe-lock microcentrifuge tube*
Adapter	Shaker adapter for 2 ml microcentrifuge tubes (marked with "2")

* Sample Tubes RB, 2 ml (cat. no. 990381; see www.qiagen.com/MyQIAcube).

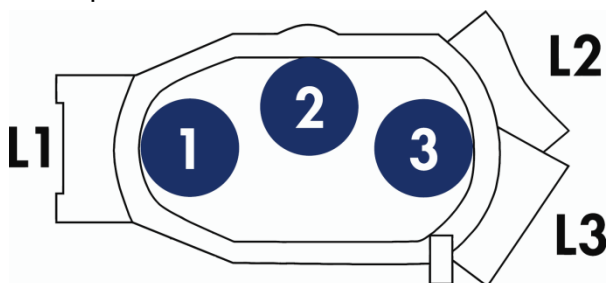
Disposable Tips

Disposable Filter-Tips, 1000 µl
Disposable Filter-Tips, 200 µl

Reagent Bottle Rack

Rack labeling strip	Unlabeled
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Rotor Adaptor



Position	Reagent
1	Buffer SB2
2	Ethanol 80%
3	Ethanol 80%
4	Buffer EBA
5	–
6	–

Position	Labware	Lid position
1	MinElute [®] Spin Column (cut off the lid)	–
2	–	–
3	Elution tube (1.5 ml) [†]	L3

[†] Sarstedt[®] Micro tube 1.5 ml (cat. no. 72.690; see www.sarstedt.com).

Microcentrifuge Tube Slots

	Position		
	A	B	C
Content	Master Mix MM-A	–	Master Mix MM-C
Vessel	1.5 ml microcentrifuge tube	–	1.5 ml microcentrifuge tube

Number of samples	Volume of reagent required for the indicated number of samples (µl)		
	A Water/ End Repair Buffer, 10x/ End Repair Enzyme Mix / Universal Adapter Q (µl)	B	C Water/ Ligation Buffer 2x/ Ligation + Nick Repair Enzyme Mix/ dNTP Mix (10 mM) (µl)
2	23 / 9.0 / 7.2 / 11.5	–	25 / 101 / 10.1 / 2.5
3	29 / 11.7 / 9.3 / 14.9	–	36 / 144 / 14.4 / 3.6
4	36 / 14.4 / 11.5 / 18.4	–	47 / 187 / 18.7 / 4.7
5	43 / 17.1 / 13.7 / 21.9	–	58 / 231 / 23.1 / 5.8
6	50 / 19.8 / 15.8 / 25.3	–	68 / 274 / 27.4 / 6.8
7	57 / 22.5 / 18.0 / 28.8	–	79 / 317 / 31.7 / 7.9
8	63 / 25.2 / 20.1 / 32.2	–	90 / 360 / 36.0 / 9.0
9	70 / 27.9 / 22.3 / 35.7	–	101 / 403 / 40.3 / 10.1
10	77 / 30.6 / 24.5 / 39.1	–	112 / 447 / 44.7 / 11.2
12	91 / 36.0 / 28.8 / 46.0	–	133 / 533 / 53.3 / 13.3

Comments

Sample material

8 µl PCR-enriched DNA (from GeneRead QIAact Panels, Powered by QCI™) + 3.2 µl Adapter Q (bar coded)

Adapters

Universal Adapter Q (added to Master Mix MM-A) + Adapter Q (bar coded) (added to PCR-enriched DNA)

Kits

GeneRead DNA Library Q Kit and GeneRead Size Selection Q Kit, both as part of the GeneRead DNA Library Q Kit (48) (cat. no. 185444)

Note

Kit content is calculated for 8 runs of 6 samples automated on the QIAcube. If runs with <6 samples are performed, the sample number could be less than that stated in the kit handbook or kit label.

For up-to-date licensing information and product-specific disclaimers, see the respective QIAGEN kit handbook or user manual. QIAGEN kit handbooks and user manuals are available at www.qiagen.com or can be requested from QIAGEN Technical Services or your local distributor.

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