

## General Information

Application	DNA
Kit	GeneRead™ DNA Library Q Kit
Sample material	DNA
Short protocol name	Standard
Version	1
Full protocol name	Library preparation for QIAGEN GeneReader® instruments V1
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](http://www.qiagen.com/MyQIAcube)).

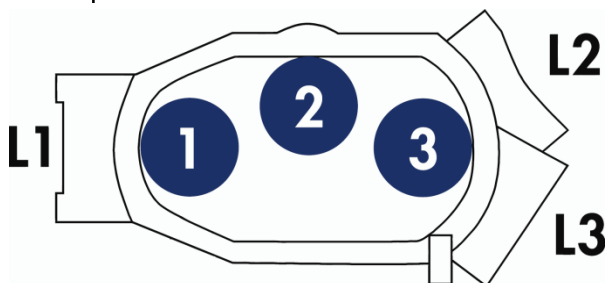
## Disposable Tips

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](http://www.sarstedt.com)).

### Microcentrifuge Tube Slots

	Position		
	A	B	C
Content	Master Mix MM1	–	Master Mix MM3
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 DNaseq Targeted Panels V2) + 3.2 µl Adapter Q (bar coded)

#### Adapters

Universal Adapter Q (added to Master Mix MM1) + 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.