

Materials List for:

# Circulating MicroRNA Quantification Using DNA-binding Dye Chemistry and Droplet Digital PCR

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URL: <https://www.jove.com/video/54102>

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## Materials

Name	Company	Catalog Number	Comments
miRNeasy Mini Kit	Qiagen	217004	Columns for total RNA, including miRNA, extraction from serum/plasma
100 nmole RNA oligo Cel-miR-39-3p	Integrated DNA Technologies	Custom	Sequence: UCACCGGGUGUAAAUCAGCUUG
Universal cDNA synthesis kit II, 8-64 rxns	Exiqon	203301	Kit for microRNA reverse transcription
MicroRNA LNA PCR primer set	Exiqon	204000-206xxx and 2100000-21xxxxx	Primers for miRNA amplification inside droplets
QX200 droplet generator	BioRad	186-4002	Instrument used for droplet reading
QX200 droplet reader	BioRad	186-4003	Instrument used for droplet generation
QuantaSoft software	BioRad	186-3007	Software for data collection and analysis
PX1 PCR plate sealer	BioRad	181-4000	Plate sealer
DG8 droplet generator cartridges and gaskets	BioRad	186-4008	Cartridges used to mix sample and oil to generate droplets
QX200 ddPCR EvaGreen supermix	BioRad	186-4033/36	PCR supermix
QX200 droplet generator oil for EvaGreen dye	BioRad	186-4005	Oil for droplet generation