

Automated Dissection Protocol for Tumor Enrichment in Low Tumor Content Tissues

Charles A. Havnar¹, Oliver Zill², Jeff Eastham¹, Jeffrey Hung¹, Manana Javey³, Emmanuel Naouri³, Jennifer Giltneane¹, Justin M. Balko⁴, Andrew Wallace², Nicolas Lounsbury², Daniel Oreper², Sarajane Saturnio¹, G-Y Yang⁵, Amy A. Lo¹

¹Departments of Research Pathology, Genentech ²Bioinformatics & Computational Biology, Genentech ³Roche Sequencing Solutions, Hacienda Drive

⁴Department of Medicine, Vanderbilt University Medical Center, Medical Center Drive ⁵Department of Pathology, Northwestern University, Feinberg School of Medicine

Corresponding Author

Amy A. Lo

lo.amy@gene.com

Citation

Havnar, C.A., Zill, O., Eastham, J., Hung, J., Javey, M., Naouri, E., Giltneane, J., Balko, J.M., Wallace, A., Lounsbury, N., Oreper, D., Saturnio, S., Yang, G.Y., Lo, A.A. Automated Dissection Protocol for Tumor Enrichment in Low Tumor Content Tissues. *J. Vis. Exp.* (169), e62394, doi:10.3791/62394 (2021).

Date Published

March 29, 2021

DOI

10.3791/62394

URL

jove.com/video/62394

Materials

Name	Company	Catalog Number	Comments
Agilent SureSelectXT	Agilent	G9611A	
AVENIO Millisect Fill Station	Roche	8106533001	
AVENIO Millisect Instrument, Base	Roche	8106568001	
AVENIO Millisect Instrument, Head	Roche	8106550001	
AVENIO Millisect Milling Tips Small	Roche	8106509001	
AVENIO Millisect PC	Roche	8106495001	
BioAnalyzer	Agilent	G2939BA	
Eppendorf 5427R	Eppendorf	22620700	Micro-centrifuge
Incubation Buffer	Promega	D920D	
Leica Autostainer XL	Leica	ST5010	Automated stainer
Molecular Grade Mineral Oil	Sigma	M5904-500ML	
Proteinase K	Promega	V302B	Digestion buffer
Qiagen AllPrep DNA/RNA Mini Kit	Qiagen	80284	
RLT Plus buffer	Qiagen	80204	
Superfrost Plus positively charged microscope slides	Thermo Scientific	6776214	