

Materials List for

# Rapid and Efficient Spatiotemporal Monitoring of Normal and Aberrant Cytosine Methylation within Intact Zebrafish Embryos

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jove.com/video/64190

## Materials

Name	Company	Catalog Number	Comments
1.5-mL microcentrifuge tubes	Fisher Scientific	540225	
10- $\mu$ L glass microcapillary pipette	Fisher Scientific	211762B	
100-mm plastic Petri dish	Fisher Scientific	08757100D	
10x phosphate-buffered saline	Fisher Scientific	BP399500	
1-mL pipette	Fisher Scientific	13690032	
250-mL Erlenmeyer flask	Fisher Scientific	FB501250	
5-mL pipette	Fisher Scientific	13690033	
60-mm glass petri dishes with lids	Fisher Scientific	08747A	
96-well plate	Fisher Scientific	720089	
AlexaFluor 488-conjugated goat anti-mouse IgG antibody	Fisher Scientific	A21121	
Bovine serum albumin	Fisher Scientific	BP67110	
DMSO	Fisher Scientific	BP2311	
Hotplate	Fisher Scientific	1110016SH	
In-tank breeding traps	Aquatic Habitats	N/A	This product is no longer available following acquisition of Aquatic Habitats by Pentair. Investigators can use standard off-system breeding tanks available from multiple vendors.
ImageXpress Micro XLS Widefield High-Content Screening System	Molecular Devices	N/A	Any high-content screening system equipped with transmitted light and FITC filter will be suitable.
Immunocytochemistry (IHC) basket	N/A	N/A	Manufactured in-house using microcentrifuge tubes with conical portion removed and bottom fitted with mesh, sized for 24- or 48-well plates.

MetaXpress 6.0.3.1658	Molecular Devices	N/A	Any software capable of quantifying total area and integrated intensity of fluorescence will be suitable.
Microspatula	Fisher Scientific	2140115	
Monoclonal mouse anti-5-mC antibody	Millipore Sigma	MABE146	
NaOH	Fisher Scientific	BP359-500	
Orbital shaker	Fisher Scientific	50998290	
Parafilm	Fisher Scientific	1337412	
Paraformaldehyde	Fisher Scientific	18612139	
Plastic transfer pipette	Fisher Scientific	1368050	
Rstudio	RStudio	N/A	RStudio is open-source software and can be downloaded at <a href="https://www.rstudio.com">https://www.rstudio.com</a> .
Sheep serum	Millipore Sigma	S3772-5ML	
Stereomicroscope	Leica	10450103	
Temperature-controlled incubator	Fisher Scientific	PR505755L	
Tween-20	Fisher Scientific	P7949-500ML	