

Materials List for:

## Large Scale Zebrafish-Based *In vivo* Small Molecule Screen

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### Materials

Name	Company	Catalog Number	Comments
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Minimum of 20 pairs of adult zebrafish of desired genotype.			
Fish nets, Breeding tanks, with removable inner container and dividers (Aquatic Habitats).			
Petri dishes (10 cm).			
Plastic tea strainer.			
Wash bottle containing embryo water.			
Disposable polyethylene transfer pipettes.			
Polystyrene 96-well round-bottom assay plates (Corning COSTAR; Lowell, MA).			
Glass Pasteur pipette (Fisher Scientific).			
Manual pipette pump, 10 mL (Bel-Art Products, Pequannock, NJ).			
E3 embryo medium: 5 mM NaCl, 0.17 mM KCl, 0.33 mM CaCl <sub>2</sub> , 0.33 mM MgSO <sub>4</sub> , containing 0.003% PTU (phenylthio-carbamide, Sigma; St. Louis, MO). PTU can be prepared as a 10x solution by dissolving 0.3-g PTU in 1 L of E3 embryo media. Solutions containing PTU should be protected from light by covering with aluminum foil.			
12-channel pipettes, 2-20 µL (Eppendorf).			
12-channel pipettes, 3-300 µL (Eppendorf).			
Disposable polystyrene pipette basin, 50 mL (Fisher Scientific).			
Small molecule library of structurally diverse compounds arrayed in a 96-well format at 10 mM stock in DMSO. Each master plate is aliquoted into 96-well polypropylene storage plates			

(Corning), and stored at -80°C until use.			
Aluminum sealing tape for 96-well plates (Nunc, Rochester, NY).			
DMSO (Sigma, St. Louis, MO).			
Basic incubator, 28.5°C (Fisher Scientific).			
Stereomicroscope with transmitted light base (Leica Microsystems, Bannockburn, IL).			