

Materials List for:

# A Chemical Screening Procedure for Glucocorticoid Signaling with a Zebrafish Larva Luciferase Reporter System

Benjamin D. Weger<sup>1</sup>, Meltem Weger<sup>1</sup>, Nicole Jung<sup>2</sup>, Christin Lederer<sup>1</sup>, Stefan Bräse<sup>1,3</sup>, Thomas Dickmeis<sup>1</sup>

<sup>1</sup>Institute of Toxicology and Genetics, Karlsruhe Institute of Technology - Campus North

<sup>2</sup>Institute of Organic Chemistry, Karlsruhe Institute of Technology - Campus North

<sup>3</sup>Institute of Organic Chemistry, Karlsruhe Institute of Technology - Campus South

Correspondence to: Thomas Dickmeis at [thomas.dickmeis@kit.edu](mailto:thomas.dickmeis@kit.edu)

URL: <https://www.jove.com/video/50439>

DOI: [doi:10.3791/50439](https://doi.org/10.3791/50439)

## Materials

Name	Company	Catalog Number	Comments
<b>Buffer composition + reagents</b>			
Dimethyl sulphoxide (DMSO)	Carl Roth GmbH Co KG	A994.2	
FDA approved drug library	Enzo Life Sciences	BML-2841-0100	
Luciferin	Biosynth	L-8220	
Dexamethasone	Sigma-Aldrich	D4902	
Methylene Blue	Sigma-Aldrich	M9140	
E3	N/A	N/A	5 mM NaCl, 0.17 mM KCl, 0.33 mM CaCl <sub>2</sub>
<b>Instruments</b>			
Multiprobe II	PerkinElmer		8 channel, equipped with disposable tip adaptor
Liquidator 96	Steinbrenner Laborsysteme		hand-operated 96-channel pipette
EnVision Xcite Multilabel Plate Reader	PerkinElmer		Equipped with stacker automation, temperature control, barcode reader and enhanced luminescence detector
<b>Plasticware + consumables</b>			
96-Well Storage Plate	ABgene	AB-0765	round well, 0.8 ml
Cover films,	ratiolab	6018412	self adhesive, DMSO resistant
Pipette tips	Steinbrenner Laborsysteme	LRF-200L	for liquidator 96, 200 µl, low retention
TopSeal-A	PerkinElmer	6005185	
OptiPlate-96	PerkinElmer	6005299	white opaque 96-well microplate
Barcode Labels	PerkinElmer	1608182	
filtered polypropylene IsoTip pipette tips	Corning	S058.4809	
<b>Animals</b>			
GRE:Luc fish	N/A	ZDB-TGCONSTRCT-120920-1	available at the European Zebrafish Resource Centre EZRC, Karlsruhe