



## DGRC Newsletter - Fall 2016

### New Collections

1. FlyBi ORFeome (<http://flybi.hms.harvard.edu/>)

The FlyBi ORFeome Collection contains 10,271 open reading frames (ORFs) from *D. melanogaster* (2/3 of the proteome). Cloned in the pDONR233 Gateway vector.

2. New versions of the GOLD Collection – for expression in flies and cell lines  
<http://www.fruitfly.org/EST/proteomics.shtml>

#### Tagged ORFs

- UFO - ORFs driven by a UAS promoter and with a Flag-HA tag C-terminal fusion
- MXO - ORFs driven by a metallothionein promoter with TAP-tag for C-terminal fusion
- FMO - ORFs driven by a metallothionein promoter with Flag-HA tag C-terminal fusion

3. Extracellular Domain (ECD) Clones ([Ozkan et al., 2013](#))

The ECD collection consists of 202 extracellular domains of *Drosophila* proteins composed of the immunoglobulin superfamily (IgSF), fibronectin type III (FnIII), and leucine-rich repeat (LRR) families.

### Use our product search to find clone variations of your favorite gene(s)

Clones for Gene Ama (FBgn0000071)

Clone	Barcode	FlyBase	Features
LD39923	2433	FBcl0174273	Full Length Sequenced cDNA (Gold)
FMO01101	1620000		Tagged Expression-ready ORF
FMO02612	1610603		Tagged Expression-ready ORF
MXO52601	1620854		Tagged Expression-ready ORF
UFO01101	1621050		Tagged Expression-ready ORF
UFO02912	1617319		Tagged Expression-ready ORF
ECD01014	1649513		Extra-Cellular Domain
ECD01214	1649514		Extra-Cellular Domain
GE006554	1652887		FlyBi ORFeome Collection
BO09054	1514510		Expression-ready ORF
BS08654	1515744		Expression-ready ORF
IP14004	1390284	FBcl0319582	Clone generated by IP-PCR
LD13756	1301206	FBcl0159448	Uncharacterized EST or DGC clone
LD29204	1316034	FBcl0174285	Uncharacterized EST or DGC clone
LP02284	1335410	FBcl0187872	Uncharacterized EST or DGC clone

### New Vectors – Enter the terms below into our search tool

1. CRISPR <http://flycrispr.molbio.wisc.edu/>
2. MiMIC, RMCE <http://flypush.imgen.bcm.tmc.edu/pscreen/rmce/>

## Cell Lines

1. modENCODE characterized cell lines – type “modENCODE” into our search box

There are 25 *Drosophila melanogaster* cell lines reported in [Cherbas et al. 2011](#) that have been characterized by whole-genome tiling microarray analysis of total RNA. The transcriptional profiles, generated as part of the modENCODE project ([Celniker et al. 2009](#)), can be accessed on the DGRC website through individual cell line pages.

We are adding expression and ecdysone induction data for 41 cell lines using RNAseq data from [Stoiber et al., 2016](#); this tool will become available in an upcoming DGRC website release.

2. New Cell lines for  $\phi$ C31 integrase-mediated integration.
  - Ras-attP-L1, Ras-attP-L2 - [Manivannan et al. 2015](#)
  - Kc167-PP-16F, Sg4-PP-3A, Kc167-IPPi-66D and more - [Cherbas et al. 2015](#)
3. Linked references for studies utilizing cell lines

We have expanded the literature references for each cell line. In collaboration with FlyBase, we now include all papers that make use of cell lines available from the DGRC. References can be viewed by clicking on the “References” tab; they are associated with searchable keywords.

## Coming Soon

1. Drosophila Tagged Transcription Factor BACs from Dr. Kevin White
2. Plug and Play Vectors from Dr. Benjamin White - [Diao et al., 2015](#)

## Donate Materials and Collections

Depositing resources at the DGRC is an easy way to make them widely available to the community - saving your lab the time and cost involved in processing requests and shipping - and a way to meet NIH's requirements for distribution of resources. Find out more – <http://dgrc.bio.indiana.edu/Donate>.

## Holiday Shipping Schedule

Nov 21-27: no domestic shipments (Thanksgiving week)  
Dec 12: last day of shipments before the New Year  
Jan 4: shipping resumes