Supplemental Figure 3

A

1dpf scRNA-seq
2dpf scRNA-seq
5dpf scRNA-seq
Bulk RNA-seq

B

Farnsworth et al., 2020 Dataset

Expression Level

smyhc2

Expression Level

gjd4/Cx46.8

Updated Dataset

Expression Level

smyhc2

Expression Level

gjd4/Cx46.8

B_i

Expression Level

myl17

Expression Level

gjd6/Cx36.7

B_ii

Expression Level

mbpa

Expression Level

gjb1a/Cx27.5

B_iii

Expression Level

mbpa

Expression Level

gjb1a/Cx27.5

Ensembl GTF (GRCz11_93)
Updated GTF

Supplemental Figure 3
B

gja1b/Cx43

UMAP 2

UMAP 1

Expression Level

Expression Level
gja10b/Cx52.6

UMAP 1

UMAP 2

Expression Level

M
gjb3/Cx35.4

UMAP 1

Expression Level

UMAP 2

Expression Level
Supplemental Figure 6

A/ 

[cldnc] Expression Level  
Intestine  
(Clusters 3, 60, 67, 140)

[fga2] Expression Level  
Intestine  
(Clusters 3, 60, 67, 140)

[foxa3] Expression Level  
Intestine  
(Clusters 3, 60, 67, 140)

B/ 

[gjc4b/Cx43.4] Expression Level  
1dpf 2dpf 5dpf  
Intestine  
(Clusters 3, 60, 67, 140)

[gja13.1/Cx32.3] Expression Level  
1dpf 2dpf 5dpf  
Intestine  
(Clusters 3, 60, 67, 140)

[gja12.1/Cx28.9] Expression Level  
1dpf 2dpf 5dpf  
Intestine  
(Clusters 3, 60, 67, 140)
Supplemental Figure 7

DDX4  
nanos3  
gja9a/Cx55.5  
gjb8/Cx30.3  
gjc4b/Cx43.4  
gjd1b/Cx34.7

PGC markers
Supplemental Figure 8

A

Broadly Expressed

Expression Level

gjb3/Cx35.4
gjb8/Cx30.3
gjb10/Cx34.4
gjc4b/Cx43.4

A

Periderm

Expression Level

ppl

krt4
evpla
gjb9a/Cx28.6

A

Pigment Cell

Expression Level

sox10

axo5
gja4/Cx39.4
gja5b/Cx41.8

A

Ionocyte

Expression Level

foxi3a

gjb7/Cx28.8
gjb9b/Cx30.9

A

Basal Cell

Expression Level

tp63

gjc4a.1/Cx44.2
gjc4a.2/Cx44.5