

B

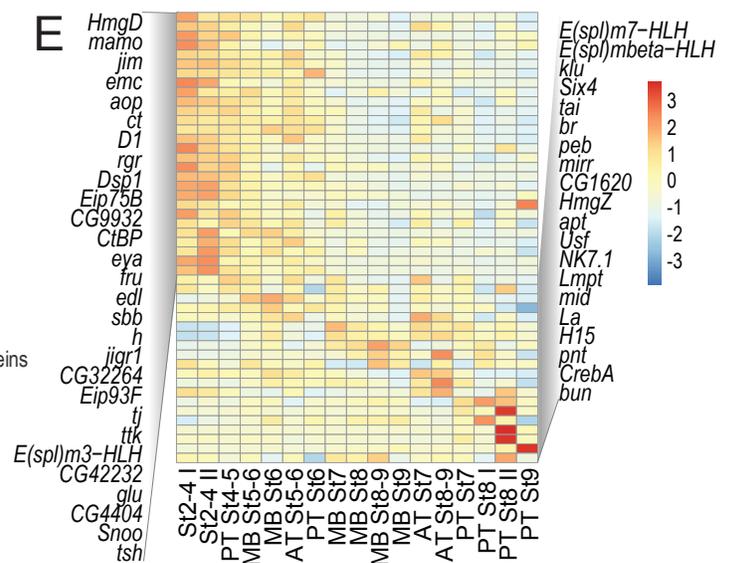
St2-4 I	St2-4 II	PT St4-5	MB St5-6	MB St6	MB St7	MB St8	MB St8-9	Mb St9	
4.3E-07	0.001	4.0E-04	0.001	0.093	0.232	0.283	0.222	0.009	Transcription factor/DNA binding
4.3E-04	2.2E-09	0.017	0.063	0.001	0.309	0.366	0.375	0.195	Cytoskeletal
0.003	0.000	0.029	0.060	0.025	0.239	0.060	5.1E-06	6.2E-09	Metabolic vs2
0.004	0.001	4.3E-04	0.079	0.085	0.104	0.116	0.163	0.002	Trans-membrane proteins
1.9E-05	0.008	0.002	0.042	0.362	0.279	1.000	1.000	1.000	Major signaling pathways
0.002	0.044	0.105	0.348	1.000	1.000	0.207	0.110	0.081	Matrisome
0.015	0.001	0.071	0.076	1.000	0.288	0.015	4.0E-04	7.8E-06	Metabolic
0.078	0.048	0.130	0.247	1.000	0.380	0.274	1.9E-05	0.000	Mitochondrial
0.181	0.070	0.200	0.341	1.000	0.361	0.079	3.7E-04	0.001	Human Disease
1.000	1.000	1.000	1.000	1.000	1.000	0.024	0.036	1.6E-04	Chaperone and heat shock proteins
0.036	0.035	0.066	1.000	1.000	1.000	1.000	0.037	0.002	Transporters
0.165	0.139	0.147	0.275	0.257	0.040	0.244	0.272	0.007	Secreted proteins
0.167	0.198	0.206	0.372	0.357	0.059	0.352	0.043	0.017	Glycoproteins
0.257	0.182	0.358	1.000	0.118	0.181	0.253	0.063	0.023	Autophagy-related

C

AT St5-6	AT St7	AT St8-9	
2.7E-05	0.003	0.011	Cytoskeletal
0.006	8.3E-04	3.2E-05	Matrisome
0.001	0.152	0.146	Transcription factor/DNA binding
0.009	0.028	0.152	Major signaling pathways
0.040	0.008	4.0E-04	Glycoproteins
0.105	0.067	6.3E-07	Metabolic vs2
0.035	0.135	1.6E-04	Metabolic
1.000	0.276	4.8E-04	Transporters
0.196	0.186	0.002	Mitochondrial

D

PT St6	PT St7	PT St8 I	PT St8 II	PT St9	
4.6E-05	0.366	0.014	1.000	0.153	Cytoskeletal
0.024	0.024	0.001	0.122	8.5E-05	Trans-membrane proteins
0.351	0.199	0.004	0.094	0.014	Chaperone and heat shock proteins
0.174	0.207	0.007	0.260	0.002	Matrisome
0.172	0.119	0.008	0.004	1.3E-07	Glycoproteins
0.149	0.097	0.044	2.6E-12	9.8E-10	Metabolic
0.125	0.114	0.101	5.4E-12	2.7E-10	Metabolic vs2
0.049	0.151	0.085	9.0E-08	3.1E-09	Mitochondrial
0.181	0.079	0.178	7.1E-06	0.001	Human Disease
1.000	0.253	1.000	1.4E-04	0.015	Autophagy-related
0.162	0.185	0.121	0.107	3.3E-04	Transcription factor/DNA binding
0.213	0.106	0.018	0.137	0.001	Secreted proteins



Supplemental Figure 6.

A - Feature plots visualizing previously known and newly identified FC marker gene expression in alphabetical order. Each dot represents a cell and is color-coded according to gene expression levels, as indicated in the scale. B-D - Tables showing p-values of gene class enrichment in FC cluster markers. Darker purple shading indicates lower p-values. B - Early stage and MBFCs, C - ATFCs, D - PTFCs. E - A heatmap visualizing average expression levels of differentially expressed transcription factors in FCs. Red indicates highest and blue lowest expression.