

**A**

Sample	Overexpressed (FC > 1.5 & <i>P</i> -value < 0.05)			Underexpressed (FC < -1.5 & <i>P</i> -value < 0.05)		
	Gender neutral	Oogenic	Spermatogenic	Gender neutral	Oogenic	Spermatogenic
<i>fog-1</i> [L3]	73/78 (-0.1) $3.1 \times 10^{-1}$	12/10 (0.26) $5.0 \times 10^{-1}$	7/7 (0) $8.4 \times 10^{-1}$	65/62 (0.07) $6.2 \times 10^{-1}$	8/8 (0) 1.0	1/5 (-2.32) $4.1 \times 10^{-2}$
<i>cpb-2</i> [L3]	25/27 (-0.11) $4.3 \times 10^{-1}$	5/3 (0.74) $2.0 \times 10^{-1}$	5/3 (0.74) $1.0 \times 10^{-1}$	28/27 (0.05) 1.0	1/3 (-1.58) $3.6 \times 10^{-1}$	2/3 (-0.58) 1.0
<i>cpb-3</i> [L4]	46/44 (0.06) $6.7 \times 10^{-1}$	3/6 (-1) $3.7 \times 10^{-1}$	1/4 (-2) $1.2 \times 10^{-1}$	28/30 (-0.1) $6.0 \times 10^{-1}$	2/4 (-1) $5.8 \times 10^{-1}$	4/3 (0.42) $3.5 \times 10^{-1}$

**B**

Sample	Overexpressed (FC > 1.5 & BH adjusted <i>P</i> -value < 0.01)			Underexpressed (FC < -1.5 & BH adjusted <i>P</i> -value < 0.01)		
	Gender neutral	Oogenic	Spermatogenic	Gender neutral	Oogenic	Spermatogenic
<i>fog-1</i> [L3]	524/927 (-0.82) $< 10^{-10}$	121/254 (-1.07) $< 10^{-10}$	221/354 (-0.68) $< 10^{-10}$	1344/965 (0.48) $< 10^{-10}$	232/265 (-0.19) $2.1 \times 10^{-2}$	242/369 (-0.61) $< 10^{-10}$
<i>cpb-2</i> [L3]	770/768 (0) $9.2 \times 10^{-1}$	136/210 (-0.63) $1.3 \times 10^{-9}$	213/294 (-0.46) $1.8 \times 10^{-8}$	529/637 (-0.27) $5.8 \times 10^{-9}$	167/175 (-0.07) $5.5 \times 10^{-1}$	210/244 (-0.22) $1.4 \times 10^{-2}$
<i>cpb-3</i> [L4]	288/494 (-0.78) $< 10^{-10}$	65/135 (-1.05) $< 10^{-10}$	107/189 (-0.82) $< 10^{-10}$	657/610 (0.11) $1.0 \times 10^{-2}$	381/167 (1.19) $< 10^{-10}$	205/233 (-0.18) $3.6 \times 10^{-2}$