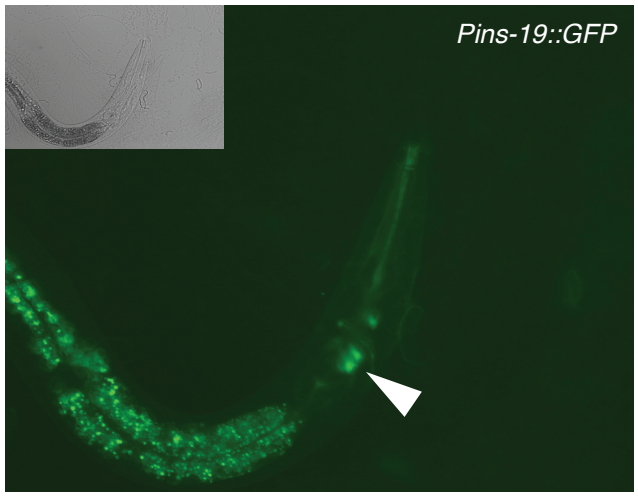
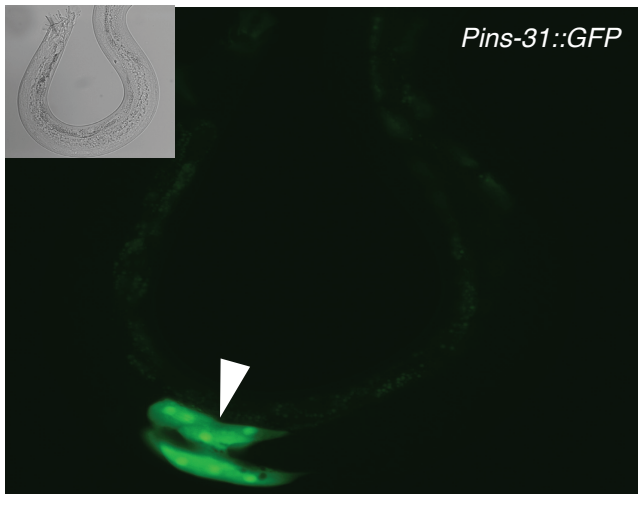
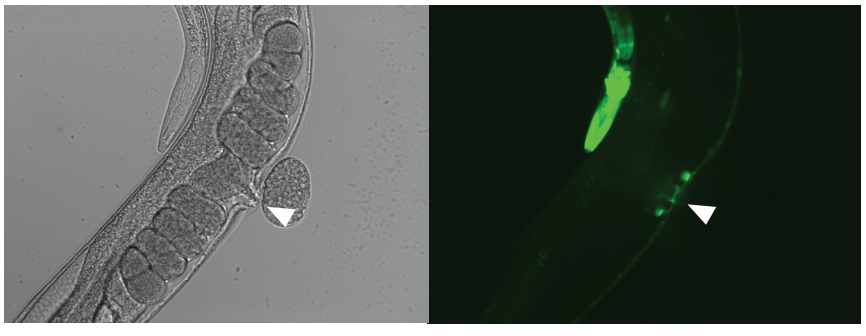
A



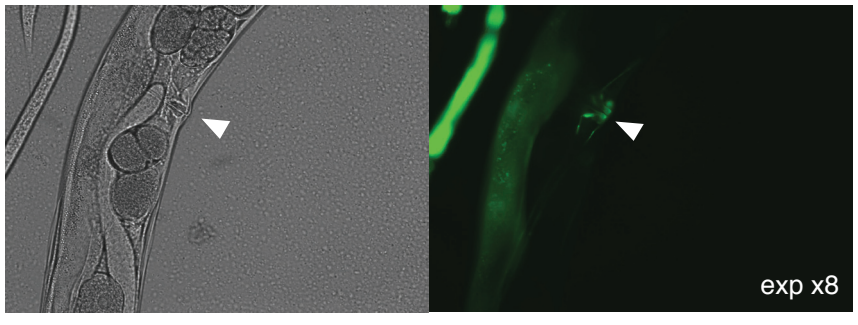
B



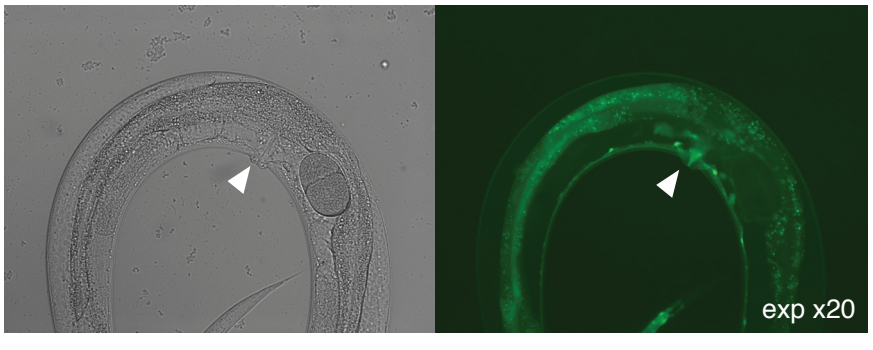
HT1737 *Pins-18::GFP*



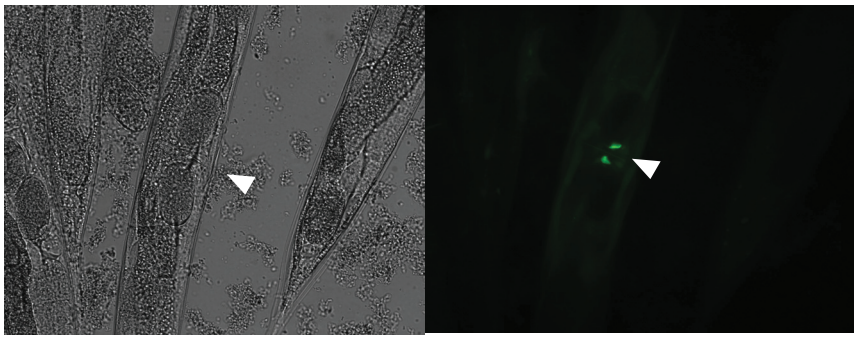
GR_SBP206 *Pins-18::GFP*



HT1702 *Pins-7::GFP*



GR_CEO284 *Pins-7::GFP*



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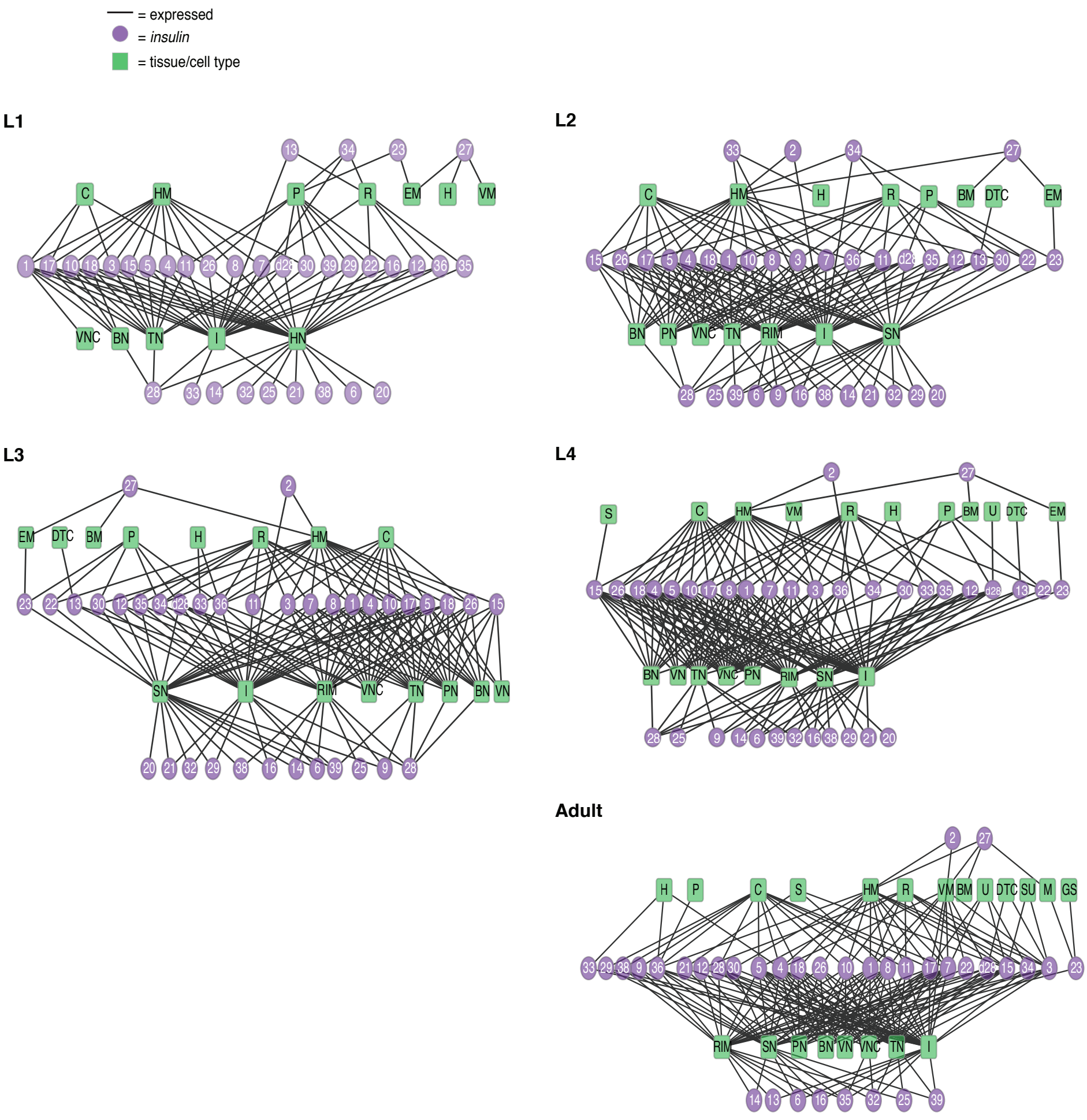
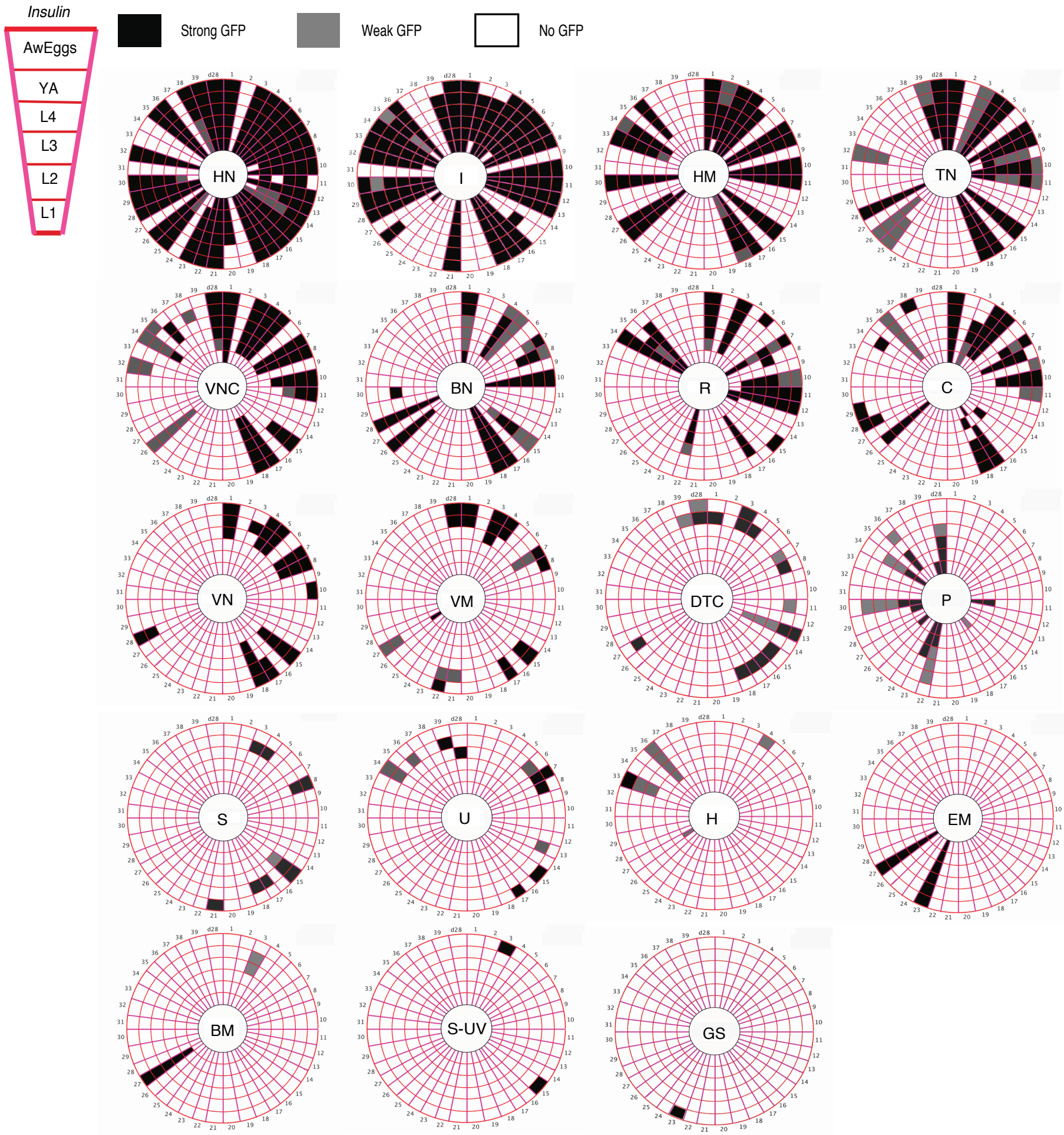
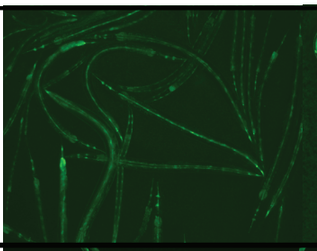
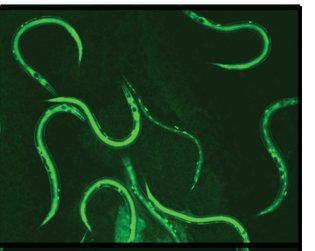
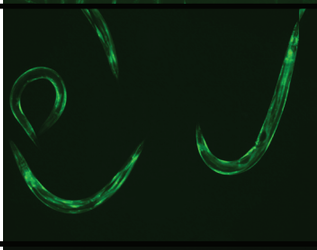
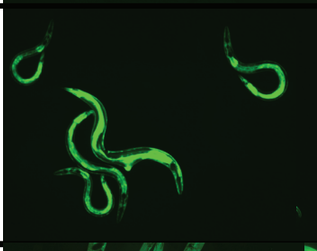
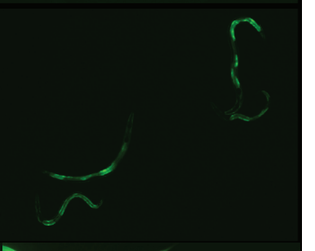
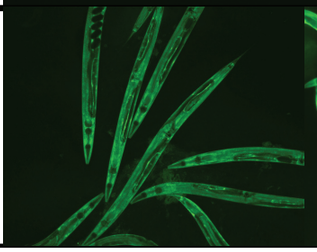
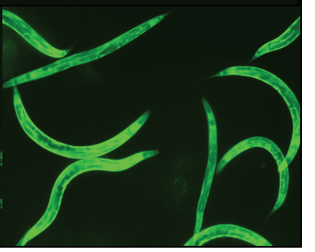


Ritter et. al, Supplemental Fig. S4

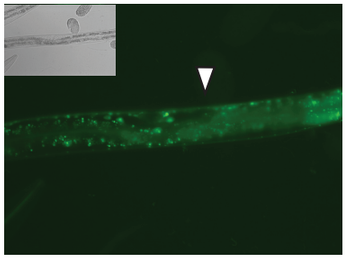
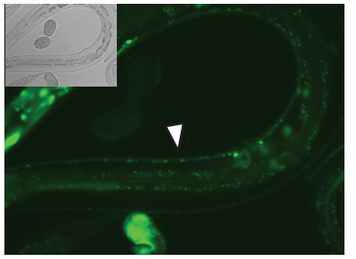
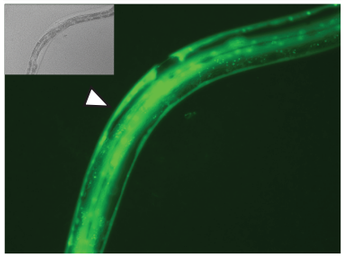
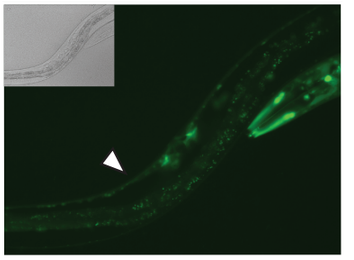


A

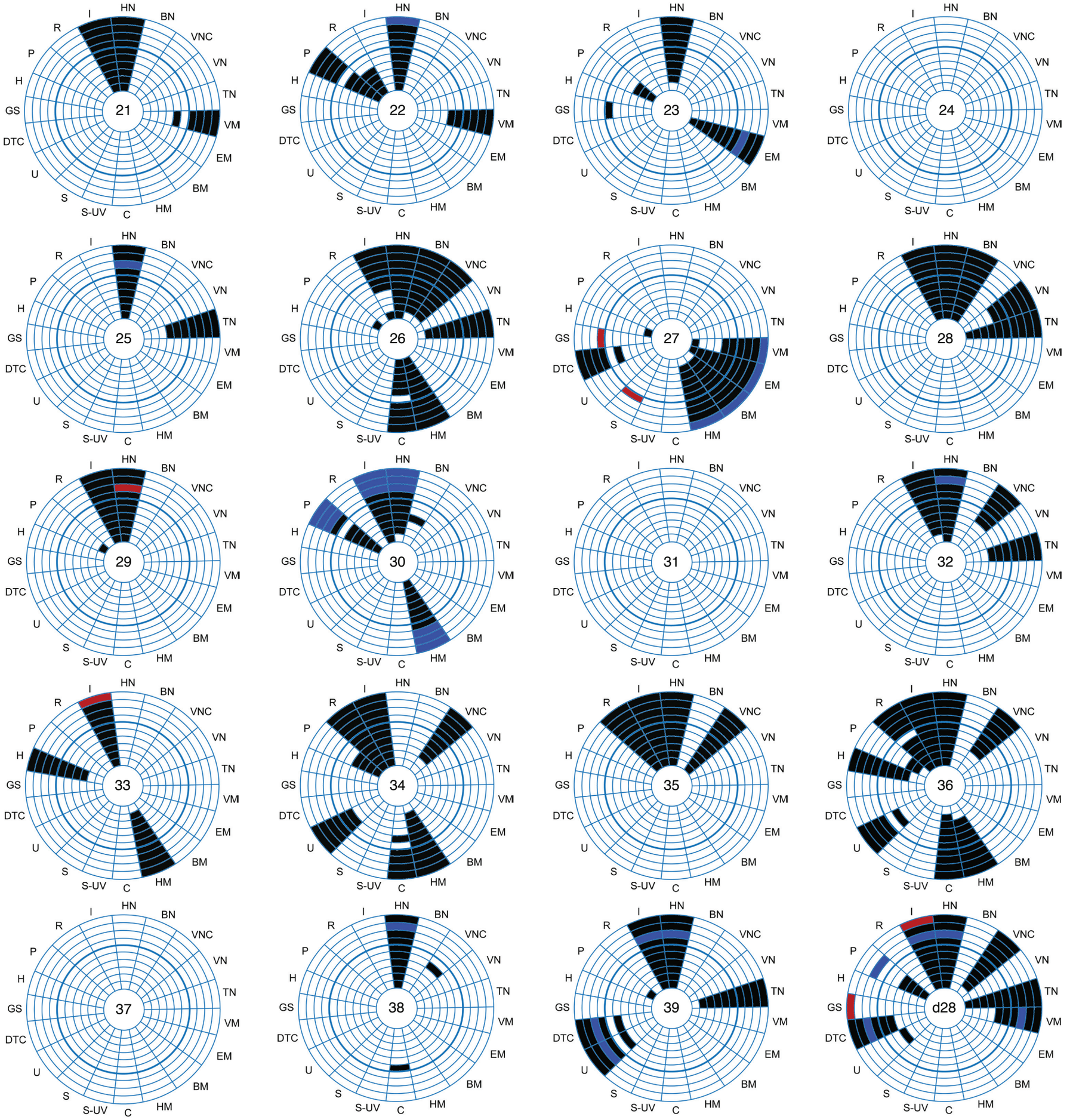
Stress Condition	Control Strain	No Stress	After Stress
Heat	*Phsp-4::GFP*		
Paraquat	*Pgst-4::GFP*		
Starvation	*Pacdh-1::GFP*		
Glucose	*daf-16a::GFP*		

B

Pins-4::GFP

	L4	Young Adult
No Stress		
Heat Stress		

Ritter et al Supplemental Fig. S6 (cont.)



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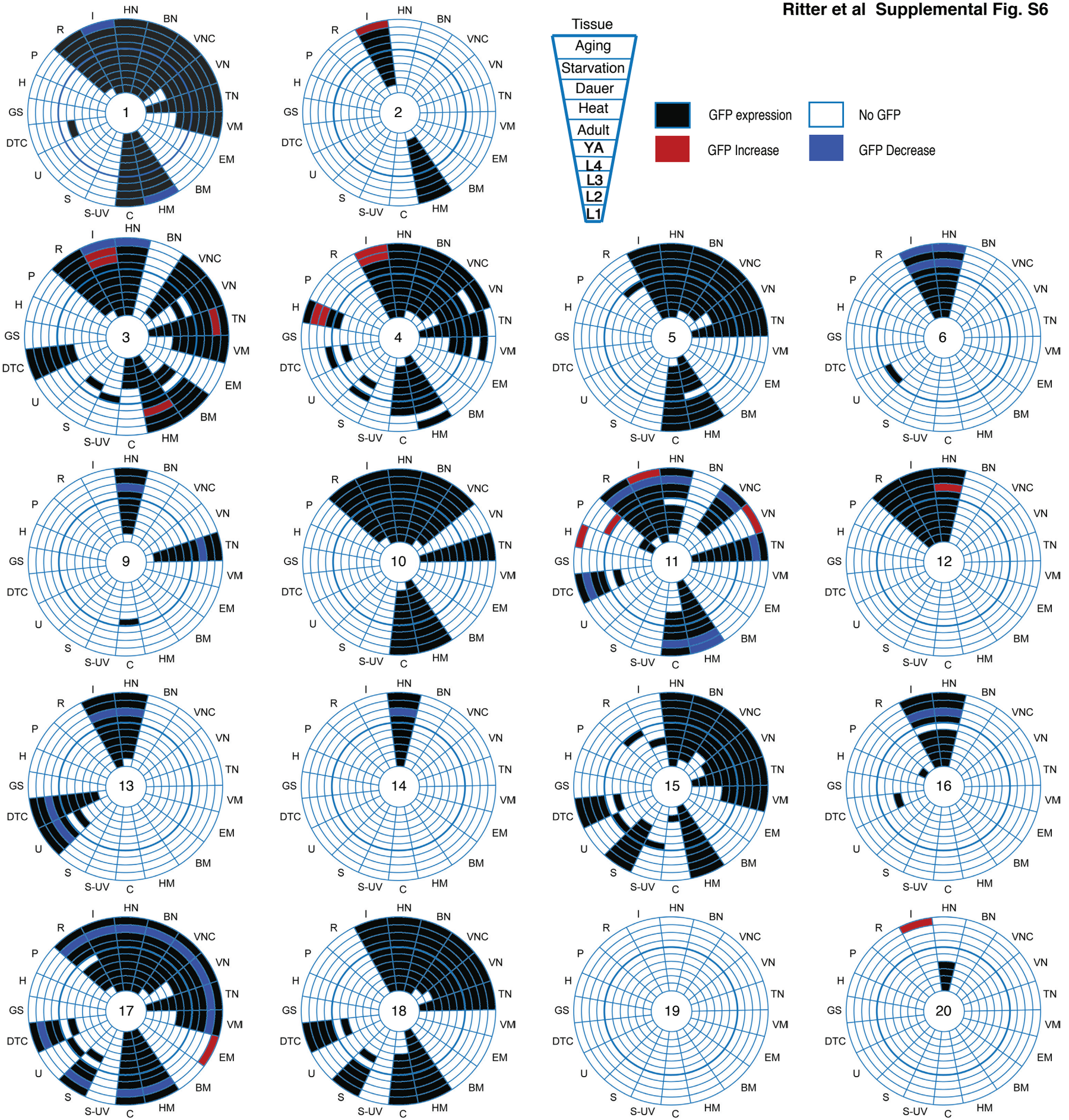

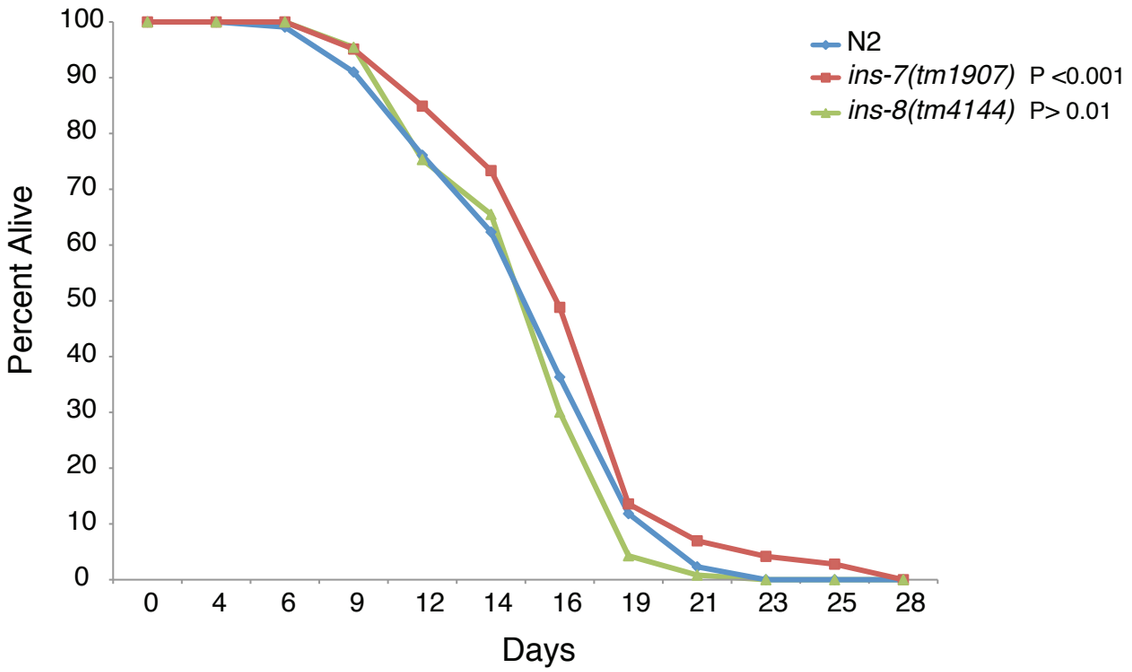
100
90
80
70
60
50
40
30
20
10
0
Percent Alive
0
4
6
9
12
14
16
19
21
23
25
28
Days
N2
ins-7(tm1907) P <0.001
ins-8(tm4144) P> 0.01

Previously Published Phenotypes (compared to N2)

Insulin	Mutants	RNAi	Overexpression	Other
ins-1	defective in salt chemotaxis learning,[P] food-associated thermotactic behavioral plasticity,[D] and benzaldehyde-starvation plasticity[A]; more rapid aversive response off food[B], increased turning in AWC-dependent local search behavior & olfactory adaptation[S]		slightly enhanced dauer and extended lifespan[C]; partially abnormal thermotaxis movement[D]	deletion suppresses dauer entry in *daf-2(e1368)* mutants[R]
ins-7	extended lifespan[G]; more resistant to pathogen[O]	extended lifespan of daf-2(+); *rrf-3(pk1426)*[F]	in intestine: slightly shorter lifespan[G]	downregulated under daf-2(-) conditions[G]; ins-7 RNAi stimulates nuclear localization of DAF-16 & increased *Psod-3::GFP* expression; enhances *daf-2(e1370)* dauer arrest[F]
ins-17	decreased dauer formation[E]		enhanced dauer formation[E]	
ins-18	decreased dauer formation[Q]		enhanced dauer formation[C,Q]; extended lifespan[Q]	
ins-33	reduced proliferative zone germline cells[J]	reduced number of proliferative zone germ cells[J]		
daf-28	induced dauer arrest[K,R]; slightly extended lifespan[L,K]			suppressed dauer formation of TGF-β pathway mutants[L,M]
ins-9			high dose = some embryonic lethality and L1 arrest[C]	
ins-6				deletion of *ins-6* in *daf-2(e1368)* mutants strongly inhibited dauer exit[R]
ins-11	slightly fatter[N]	slightly fatter[N]		
ins-2				upregulated in *daf-2* mutants[D]
ins-21				slightly downregulated in *daf-2* mutants[D]
ins-3	reduced proliferative zone germline cells[J]	reduced number of proliferative zone germ cells[J]		
ins-4				suppresses dauer formation of TGF-β pathway mutants[L,M]

A: Lin et al, 2010
B: Harris et al, 2011
C: Pierce et al, 2001
D: Kodama et al, 2006
E: Matsunaga et al, 2012
F: Murphy et al, 2003
G: Murphy et al, 2007
H: McElwee et al, 2003
I: Hristova et al, 2005
J: Michaelson et al, 2010
K: Malone et al, 1994
L: Li et al, 2003
M: Kao et al, 2007
N: Kawano et al, 2000
O: Kawli et al, 2008
P: Tomioka et al, 2006
Q: Matsunaga et al, 2012
R: Cornils et al, 2011
S: Chalasani et al, 2010

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Gene	I (Intestine)	DTC (Distal Tip Cells)	GS (Gonadal Sheath)	M (Body Muscle)	HN (Head Neuron(s))	BN (Body Neuron(s))	TN (Tail Neuron(s))	VNC (Ventral nerve cord)	P (Pharynx)	H (Hypodermis)	SU (Sperm/Uterine Valve)	C (Coelomocytes)	S (Spermatheca)	V (Vulva (incl muscle/neurons))	U (Uterus)	R (Rectum)	References
ins-1	Both	This paper only			Both	Both	Both	Both				This paper only		Both		This paper only	Pierce et al. 2001; Tomioka et al. 2006; Kodama et al. 2006
ins-2	This paper only				Prev. studies only		Prev. studies only	Prev. studies only	Prev. studies only					Prev. studies only			Pierce et al. 2001
ins-3	This paper only	This paper only		This paper only	Both	Both	This paper only	Both			This paper only	This paper only	This paper only	This paper only		This paper only	Pierce et al. 2001; Michaelson et al. 2010
ins-4	This paper only	This paper only			Both	This paper only	Both	Both		Both		This paper only	This paper only	This paper only			Pierce et al. 2001
ins-5	This paper only				Both	Both	Both	Both				This paper only		Prev. studies only		This paper only	Pierce et al. 2001
ins-6	This paper only				Both		Prev. studies only	Prev. studies only							This paper only		Pierce et al. 2001; Cornils et al. 2011
ins-7	Both	This paper only			Both	This paper only	Both	Both				This paper only		*	This paper only	This paper only	Pierce et al. 2001; Murphy et al. 2007
ins-8	This paper only	This paper only			Both	This paper only	Both	Both				This paper only	This paper only	Both	This paper only	This paper only	Pierce et al. 2001
ins-9					Both		This paper only					This paper only					Pierce et al. 2001
ins-11	This paper only	This paper only			Both		Both	Both	This paper only			This paper only				This paper only	Pierce et al. 2001
ins-18	Both	This paper only			Both	Both	Both	Both				This paper only	This paper only	*			Pierce et al. 2001; Matsunaga et al. 2012
ins-21	This paper only				Both		Prev. studies only	Prev. studies only					This paper only	This paper only			Pierce et al. 2001
ins-22					Both	Prev. studies only	Prev. studies only	Prev. studies only	This paper only					This paper only		This paper only	Pierce et al. 2001
ins-23			This paper only		Both			Prev. studies only	This paper only								Pierce et al. 2001
ins-31 (males)			Both														Thoemke et al. 2005
ins-33	This paper only									Both							Michaelson et al. 2010
daf-28	Both	This paper only			Both		Both	This paper only	Both	Prev. studies only				This paper only	This paper only		Li et al. 2003; Cornils et al. 2011; Billing et al. 2011

This paper only
Prev. studies only
Both

* = observed but not published

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Gene	I	PI	DTC	GS	HM	BM	VM	EM	SN	RIM	PN	BN	VN	TN	VNC	P	H	SU	C	S	U	R
daf-28	0	1	1	0	0	0	1	0	1	1	0	0	0	1	1	1	0	0	0	0	1	0
ins-1	0	1	1	0	1	0	1	0	1	1	1	1	1	1	1	0	0	0	1	0	0	1
ins-2	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ins-3	1	1	1	0	1	1	1	0	1	1	0	0	1	1	1	0	0	1	1	1	0	1
ins-4	0	1	1	0	1	0	1	0	1	1	1	1	1	1	1	0	1	0	1	1	0	0
ins-5	0	1	0	0	1	0	0	0	1	1	1	1	1	1	1	0	0	0	1	0	0	1
ins-6	0	1	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0
ins-7	0	1	1	0	1	0	1	0	1	1	1	1	1	1	1	0	0	0	1	0	1	1
ins-8	0	1	1	0	1	0	1	0	1	1	1	1	1	1	1	0	0	0	1	1	1	1
ins-9	0	0	0	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	1	0	0	0
ins-10	0	1	0	0	1	0	0	0	0	1	1	1	1	1	1	0	0	0	1	0	0	1
ins-11	0	1	1	0	1	0	0	0	1	1	1	0	0	1	1	1	0	0	1	0	0	1
ins-12	0	1	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	1
ins-13	0	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
ins-14	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0
ins-15	0	1	1	0	1	0	1	0	0	1	1	1	1	1	1	0	0	1	1	1	1	1
ins-16	0	1	1	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	0
ins-17	0	1	1	0	1	0	1	0	0	1	1	1	1	1	1	0	0	0	1	1	1	1
ins-18	0	1	1	0	1	0	0	0	1	0	1	1	1	1	1	0	0	0	1	1	0	0
ins-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ins-20	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
ins-21	0	1	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0
ins-22	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	1	0	0	0	0	0	1
ins-23	0	0	0	1	0	0	0	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0
ins-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ins-25	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0
ins-26	0	1	0	0	1	0	0	0	0	1	1	1	0	1	1	1	0	0	1	0	0	0
ins-27	0	0	1	0	1	1	1	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0
ins-28	0	1	0	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	1	0	0	0
ins-29	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	1	0	0	0
ins-30	0	1	0	0	1	0	0	0	1	0	0	1	0	0	0	1	0	0	0	0	0	0
ins-31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ins-32	0	1	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0
ins-33	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
ins-34	0	1	0	0	1	0	0	0	0	0	0	0	0	0	1	1	0	0	1	0	1	1
ins-35	0	1	0	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	1
ins-36	0	1	0	0	1	0	0	0	1	1	1	0	0	0	1	1	1	0	1	0	1	1
ins-37	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ins-38	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	1	0	0	0
ins-39	1	1	1	0	0	0	0	0	1	0	0	0	0	1	0	1	0	0	0	0	1	0

Gene	SEQUENCING PRIMERS	Product Size
daf-28	FWD: GGGGACAACTTTGTATAGAAAAGTTGTAGCCAAAACTGTAGTAAT	2061
	REV: GGGGACTGCTTTTTTGTACAAACTTGTCATGTTGAGATAGTTGTTGA	
ins-1	FWD: GGGGACAACTTTGTATAGAAAAGTTGGTTTTCATCTTTTACTTTT	2061
	REV: GGGGACTGCTTTTTTGTACAAACTTGTCATTGCGTACTGTCGTAGCGTGTGG	
ins-2	FWD: GGGGACAACTTTGTATAGAAAAGTTGCTGAAAAACATCTGAGATA	2061
	REV: GGGGACTGCTTTTTTGTACAAACTTGTCATGGTAGATTTTAGAATGG	
ins-3	FWD: GGGGACAACTTTGTATAGAAAAGTTGTGAGTGATCAAAGCTGAAA	2061
	REV: GGGGACTGCTTTTTTGTACAAACTTGTCATTATTCAGAACAGGAATTGATAAA	
ins-4	FWD: GGGGACAACTTTGTATAGAAAAGTTGATTAATTCAGTTTGAAGTT	2061
	REV: GGGGACTGCTTTTTTGTACAAACTTGTCATTCTCTTGGAGCTTTTG	
ins-5	FWD: GGGGACAACTTTGTATAGAAAAGTTGAAAAACAGTCGTCCAACAA	1769
	REV: GGGGACTGCTTTTTTGTACAAACTTGTCATTTTCCTTGAAGATTGAAGAGT	
ins-6	FWD: GGGGACAACTTTGTATAGAAAAGTTGAATTGGATCCCAGAATAAG	1716
	REV: GGGGACTGCTTTTTTGTACAAACTTGTCATTATAATGATATGGATAACGGAA	
ins-7	FWD: GGGGACAACTTTGTATAGAAAAGTTGGAACTAAACTCTCCAAATAAA	654
	REV: GGGGACTGCTTTTTTGTACAAACTTGTCATCTGGAAAAAGTAATATTATATAAA	
ins-8	FWD: GGGGACAACTTTGTATAGAAAAGTTGTTTCTTCTATCATAAATTAACAAAAATT	1374
	REV: GGGGACTGCTTTTTTGTACAAACTTGTCATCTGGAAATAATTAATATCAGAAC	
ins-9	FWD: GGGGACAACTTTGTATAGAAAAGTTGACGTTTTGTACCAATTTGTCTTTTTTATACC	1238
	REV: GGGGACTGCTTTTTTGTACAAACTTGTCATCGTTTCACTCCTCGAATTA	
ins-10	FWD: GGGGACAACTTTGTATAGAAAAGTTGGAACGCAGAACAAAAATGATTATTTAAATAT	2061
	REV: GGGGACTGCTTTTTTGTACAAACTTGTCATTGTTAGAAGTGCTGGAAATTGTGA	
ins-11	FWD: GGGGACAACTTTGTATAGAAAAGTTGAGTTATCGAGGTTATAGTGGT	2061
	REV: GGGGACTGCTTTTTTGTACAAACTTGTCATATTTAACGATTCCTACA	
ins-12	FWD: GGGGACAACTTTGTATAGAAAAGTTGCTGTTTGCGGAGTCGGAT	2061
	REV: GGGGACTGCTTTTTTGTACAAACTTGTCATTTTTGTTTTTGGCTGTGATTATTGT	
ins-13	FWD: GGGGACAACTTTGTATAGAAAAGTTGTGACTTCAAAAGTGATTTTGGGAT	236
	REV: GGGGACTGCTTTTTTGTACAAACTTGTCATGATAAATTTGAAGCGAAAAGAATTTGAAA	
ins-14	FWD: GGGGACAACTTTGTATAGAAAAGTTGTTTCAAATTTCTAGTTTCAGAGCTTCGG	1854
	REV: GGGGACTGCTTTTTTGTACAAACTTGTCATCTCGGTGGTAAAATGAAGCCCAA	
ins-15	FWD: GGGGACAACTTTGTATAGAAAAGTTGAAATCTAGAAACTATATTTTTTGTTGAA	810
	REV: GGGGACTGCTTTTTTGTACAAACTTGTCATTATCTGAAAATTAATTTACATTTG	
ins-16	FWD: GGGGACAACTTTGTATAGAAAAGTTGGCAATAAAAATTAAAAAATTTTGAGTAA	2061
	REV: GGGGACTGCTTTTTTGTACAAACTTGTCATTGTAAAAGTGATTTTGAAAATTTTGA	
ins-17	FWD: GGGGACAACTTTGTATAGAAAAGTTGGCCGCGTGCCAAATCACCGTT	2061
	REV: GGGGACTGCTTTTTTGTACAAACTTGTCATTTGGATCACAGATACTCGCTT	
ins-18	FWD: GGGGACAACTTTGTATAGAAAAGTTGGATGCTTTTTAGAATGTCC	2061
	REV: GGGGACTGCTTTTTTGTACAAACTTGTCATTGTGTTAAATTAAAATGAGCTT	
ins-19	FWD: GGGGACAACTTTGTATAGAAAAGTTGGGTGATGGTTGAAGGCAGG	756
	REV: GGGGACTGCTTTTTTGTACAAACTTGTCATCGGAACTAGGTTTGTATTTAT	
ins-20	FWD: GGGGACAACTTTGTATAGAAAAGTTGGTTTAAATCCTCTGAAGATGTGATTCGT	2061
	REV: GGGGACTGCTTTTTTGTACAAACTTGTCATCTCCACATCATTAAATAACATC	
ins-21	FWD: GGGGACAACTTTGTATAGAAAAGTTGAATGTCCGTTTAGAGTTTTA	2061
	REV: GGGGACTGCTTTTTTGTACAAACTTGTCATGGTTCAACTCAAAAAGGAAAAAT	

ins-22	FWD: GGGGACAACTTTGTATAGAAAAGTTGTTCCTTTAATGTTCAGCTATGCGAAGT	2061
	REV: GGGGACTGCTTTTTTGTACAAACTTGTCATTTTTGTTGGTTAGTTGT	
ins-23	FWD: GGGGACAACTTTGTATAGAAAAGTTGGAATGGAGCTTCTCAAATTCAA	1716
	REV: GGGGACTGCTTTTTTGTACAAACTTGTCATTATCGAAATTCCAGAAA	
ins-24	FWD: GGGGACAACTTTGTATAGAAAAGTTGAGCATTCCGGAATTTTCTGGAATTT	2061
	REV: GGGGACTGCTTTTTTGTACAAACTTGTCATGGTGCAGAGCATCTGGCTGAA	
ins-25	FWD: GGGGACAACTTTGTATAGAAAAGTTGAAACGATCTCTTTCTATAACTTTTTACATTCC	758
	REV: GGGGACTGCTTTTTTGTACAAACTTGTCATATTTCAAATTTTTACAACCTTCTACA	
ins-26	FWD: GGGGACAACTTTGTATAGAAAAGTTGTTGGTCATTTTAGGACCAAAGGAG	2061
	REV: GGGGACTGCTTTTTTGTACAAACTTGTCATTTCCTTCGCTGAGAAGT	
ins-27	FWD: GGGGACAACTTTGTATAGAAAAGTTGAATTTTTCAAAATTTCAAAACCCCATAAC	2061
	REV: GGGGACTGCTTTTTTGTACAAACTTGTCATGGTAGAGAAGTCGAGAGAACTGAAATAA	
ins-28	FWD: GGGGACAACTTTGTATAGAAAAGTTGTTCTTTAGTCATTTTCCTTTGAAAACTAAGTC	2061
	REV: GGGGACTGCTTTTTTGTACAAACTTGTCATATTGGAGAGTTTAGTCGAAAATC	
ins-29	FWD: GGGGACAACTTTGTATAGAAAAGTTGCTTTAAAATGGTTAATTTTGTAGT	2061
	REV: GGGGACTGCTTTTTTGTACAAACTTGTCATTTTTTTATTTCACAATATAATATAC	
ins-30	FWD: GGGGACAACTTTGTATAGAAAAGTTGAAGAGCACAAAATAACGGA	1288
	REV: GGGGACTGCTTTTTTGTACAAACTTGTCATTCTCACAAAAAAAGTGAGTTGG	
ins-31	FWD: GGGGACAACTTTGTATAGAAAAGTTGGTATTTATACAACAA	648
	REV: GGGGACTGCTTTTTTGTACAAACTTGTCATGGTGATGGTTGAAGGCAGGT	
ins-32	FWD: GGGGACAACTTTGTATAGAAAAGTTGTATTTTACACTTTCGCCACA	2061
	REV: GGGGACTGCTTTTTTGTACAAACTTGTCATTTTCAGACAAAGTAGTT	
ins-33	FWD: GGGGACAACTTTGTATAGAAAAGTTGGAGCAATCGCGCTCTATTGG	1193
	REV: GGGGACTGCTTTTTTGTACAAACTTGTCATTTTTGTTCAAAAAATCAG	
ins-34	FWD: GGGGACAACTTTGTATAGAAAAGTTGATTTTTGTCTGAAAAATTGAAATAGT	1834
	REV: GGGGACTGCTTTTTTGTACAAACTTGTCATCTTTGGGAAAATGGAT	
ins-35	FWD: GGGGACAACTTTGTATAGAAAAGTTGGCTAGGCTAAATGACGCCCTT	2061
	REV: GGGGACTGCTTTTTTGTACAAACTTGTCATTGCTGGAAAATTAGAC	
ins-36	FWD: GGGGACAACTTTGTATAGAAAAGTTGTTTTTATTGATTTTAACGATAAATTATTGA	1283
	REV: GGGGACTGCTTTTTTGTACAAACTTGTCATTCTGGAAAAAAAACAACAATTTTTCT	
ins-37	FWD: GGGGACAACTTTGTATAGAAAAGTTGTTGCACTGCTGCCGGGCTC	361
	REV: GGGGACTGCTTTTTTGTACAAACTTGTCATGGTGTTCAATCGTCTA	
ins-38	FWD: GGGGACAACTTTGTATAGAAAAGTTGGAATCTCGAATCTCATTGAAAATCCAGT	1293
	REV: GGGGACTGCTTTTTTGTACAAACTTGTCATATTTTCCAGTTGAAATTTGTAATTTCAG	
ins-39	FWD: GGGGACAACTTTGTATAGAAAAGTTGACCGAATTCTAACCA	2062
	REV: GGGGACTGCTTTTTTGTACAAACTTGTCATGGCGGAAGCGG	
For genotyping	FWD: TTCTACTTCTTTTACTGAACG	
	REV: CTCCACTGACAGAAAATTTG	

RT-PCR PRIMERS

actin	FWD: CTCTTGCCCCATCAACCATG
	REV: CTTGCTTGGAGATCCACATC
ins-7	FWD: CATGCGAATCGAATACTGAA
	REV: CACTGTTTTCGAATGAAGTC
ins-8	FWD: CGACTTTTGTATTTGAATCG
	REV: CAGCAGAGTAAGAAGAGTCC

Daf-c analysis

Strain	RNAi	L4 larvae and adult	Dauer^{total}	N^{total}
N2	vector	384	0	384
	daf-2	700	8	708
*daf-2(e1368)**	vector	13	52	65
	daf-2	0	120	120
ins-1(tm1888)	vector	330	0	330
	daf-2	341	7	348
ins-2(tm4467)	vector	394	0	394
	daf-2	456	6	462
ins-4(tm3620)	vector	433	0	433
	daf-2	449	15	464
ins-7(tm1907)	vector	550	0	550
	daf-2	585	5	590
ins-8(tm4144)	vector	488	0	488
	daf-2	563	17	580
ins-15(ok3444)	vector	572	0	572
	daf-2	548	20	568
ins-16(ok2919)	vector	412	0	412
	daf-2	347	5	352
ins-17(tm0790)	vector	296	0	296
	daf-2	314	2	316
ins-18(tm0339)	vector	210	0	210
	daf-2	n.d.	n.d.	n.d.
ins-20(tm1947)	vector	215	0	215
	daf-2	223	1	224
ins-27(ok2471)	vector	314	0	314
	daf-2	379	7	386
ins-35(ok3297)	vector	n.d.	n.d.	n.d.
	daf-2	n.d.	n.d.	n.d.

Daf-d analysis

	25°C			27°C		
Strain	**% Dauer^{avg}**	**N^{total}**	**Normalized to N2**	**% Dauer^{avg}**	**N^{total}**	**Normalized to N2**
N2	0.73 ±0.4	773	1.00	1.3 ±0.3	1225	1.00
daf-2(e1368)	76 ±5	105	104	95 ±4	145	73.1
ins-1(tm1888)	0.79 ±0.1	764	1.08	1.2 ±0.8	621	1.08
ins-2(tm4467)	0.78 ±0.1	906	1.07	1.9 ±0.3	794	1.46
ins-4(tm3620)	0.61 ±0.5	624	0.836	0.86 ±0.3	677	0.638
ins-7(tm1907)	0.83 ±0.1	240	1.14	1.2 ±0.4	406	0.923
ins-8(tm4144)	0.90 ±0.2	572	1.23	1.4 ±0.4	554	1.08
ins-15(ok3444)	0.66 ±0.1	304	0.904	1.0 ±0.1	384	0.769
ins-16(ok2919)	0.67 ±0.2	434	0.918	0.75 ±0.4	395	0.577
ins-17(tm0790)	0.62 ±0.1	322	0.849	1.0 ±0.4	643	0.769
ins-18(tm0339)	0.76 ±0.7	510	1.04	1.4 ±0.5	306	1.08
ins-20(tm1947)	0.56 ±0.2	364	0.767	1.3 ±0.1	304	1.00
ins-27(ok2471)	0.87 ±0.1	698	1.19	1.0 ±0.03	397	0.769
ins-35(ok3297)	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.