

Supplementary tables

Fig.1B

wild-type		diacetyl 10-2			diacetyl 10-3			diacetyl 10-4		
	Plates	1	2	3	1	2	3	1	2	3
	DA	105	103	73	119	214	172	43	40	41
	EtOH	0	0	0	1	0	3	14	5	10
	N	44	44	48	42	66	37	42	54	28
	total	149	147	121	162	280	212	99	99	79
	CI	0.70	0.70	0.60	0.73	0.76	0.80	0.29	0.35	0.39
	Average	0.67			0.76			0.35		
	Standard deviation	0.06			0.03			0.05		

easy-1(tm718)		diacetyl 10-2			diacetyl 10-3			diacetyl 10-4		
	Plates	1	2	3	1	2	3	1	2	3
	DA	19	31	30	14	20		20	20	15
	EtOH	0	0	0	1	2		7	10	3
	N	5	5	10	4	9		18	47	18
	total	24	36	40	19	31		45	77	36
	CI	0.79	0.86	0.75	0.68	0.58		0.29	0.13	0.33
	Average	0.80			0.63			0.25		
	Standard deviation	0.06			0.07			0.11		

Fig. 1D

wild-type	Conditions	Unconditioned																			
	Trials	day1						day2						day3							
	Plates	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6		
	DA	88	72	82	61	100	65	107	72	114	71	37	59	76	78	83	64	66	80		
	EtOH	9	16	16	8	9	8	5	6	9	1	2	1	1	4	0	2	4	3		
	N	1	36	26	25	23	35	17	10	20	28	22	18	24	31	44	44	45	44		
	total	98	124	124	94	132	108	129	88	143	100	61	78	101	113	127	110	115	127		
	CI	0.81	0.45	0.53	0.56	0.69	0.53	0.79	0.75	0.73	0.70	0.57	0.74	0.74	0.65	0.65	0.56	0.54	0.61		
	Average	0.65																			
	SEM	0.02																			
	Conditions	DA Conditioned																			
	Trials	day1						day2						day3							
	Plates	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6		
	DA	2	8	10	5	19	14	13	8	18	4	5	11	10	2	3	6	4	9		
	EtOH	2	7	7	4	19	16	18	12	13	4	7	10	4	3	2	6	7	3		
N	50	75	119	66	90	126	110	97	91	31	65	101	85	60	73	88	81	75			
total	54	90	136	75	128	156	141	117	122	39	77	122	99	65	78	100	92	87			
CI	0.00	0.01	0.02	0.01	0.00	-0.01	-0.04	-0.03	0.04	0.00	-0.03	0.01	0.06	-0.02	0.01	0.00	-0.03	0.07			
Average	0.00																		% LI	99	
SEM	0.01																		SEM		

easy-1(tm718)	Conditions	Unconditioned																			
	Trials	day1						day2						day3							
	Plates	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6		
	DA	56	152	51	105	191	95	110	76	40	49	44	80	63	62						
	EtOH	49	45	23	52	62	35	28	20	35	2	2	5	3	0						
	N	29	29	16	27	46	28	26	22	36	8	5	11	11	10						
	total	134	226	90	184	299	158	164	118	111	59	51	96	77	72						
	CI	0.05	0.47	0.31	0.29	0.43	0.38	0.50	0.47	0.05	0.80	0.82	0.78	0.78	0.86						
	Average	0.50																			
	SEM	0.07																			
	Conditions	DA conditioned																			
	Trials	day1						day2						day3							
	Plates	1	2	3	4	5	6	7	8	9	1	2	3	4	5						
	DA	16	23	26	43	34	40	34	34	31	30	44	49	39	37						
	EtOH	10	3	16	15	5	9	13	21	12	8	10	12	11	18						
N	25	43	45	36	40	43	34	32	34	20	30	32	26	30							
total	51	69	87	94	79	92	81	87	77	58	84	93	76	85							
CI	0.12	0.29	0.11	0.30	0.37	0.34	0.26	0.15	0.25	0.38	0.40	0.40	0.37	0.22							
Average	0.28																		% LI	43	
SEM	0.03																		SEM		

Fig.1F

wild-type	Conditions		unconditioned					
	Trials		day1			day2		
	Plates		1	2	3	1	2	3
	DA		31	9	10	113	125	37
	EtOH		0	0	0	7	7	1
	N		2	1	2	28	58	7
	total		34	12	15	149	192	48
	CI		0.91	0.75	0.67	0.71	0.61	0.75
	Average		0.73					
	SEM		0.05					
Conditions		DA starving conditioned						
Trials		day2						
Plates		1	2	3	1	2	3	
DA		12	5	15	12	5	15	
EtOH		4	4	14	4	4	14	
N		69	115	126	69	115	126	
total		86	126	158	86	126	158	
CI		0.09	0.01	0.01	0.09	0.01	0.01	
Average		0.04						
SEM		0.04						
Conditions		DA conditioned on food						
Trials		day1			day2			
Plates		1	2	3	1	2	3	
DA		38	92	62	101	67	79	
EtOH		14	27	13	27	16	14	
N		18	31	24	77	23	31	
total		71	152	102	206	108	127	
CI		0.34	0.43	0.48	0.36	0.47	0.51	
Average		0.43						
SEM		0.03						
casy-1(tm718)	Conditions		unconditioned					
	Trials		day1			day2		
	Plates		1	2	3	1	2	3
	DA		43	57	35	46	101	141
	EtOH		2	10	1	6	11	26
	N		14	28	9	46	84	94
	total		60	97	48	99	198	264
	CI		0.68	0.48	0.71	0.40	0.45	0.44
	Average		0.53					
	SEM		0.06					
Conditions		DA starving conditioned						
Trials		day2						
Plates		1	2	3	1	2	3	
DA		22	31	36	22	31	36	
EtOH		4	11	18	4	11	18	
N		69	136	142	69	136	142	
total		96	180	199	96	180	199	
CI		0.19	0.11	0.09	0.19	0.11	0.09	
Average		0.13						
SEM		0.04						
Conditions		DA conditioned on food						
Trials		day1			day2			
Plates		1	2	3	1	2	3	
DA		105	82	53	18	81	47	
EtOH		21	4	19	0	0	3	
N		55	26	54	71	109	138	
total		182	114	129	90	192	191	
CI		0.46	0.68	0.26	0.20	0.42	0.23	
Average		0.38						
SEM		0.08						

Fig. 3A

wild-type	Conditions	Unconditioned								
	Trials	day1			day2			day3		
	Plates	1	2	3	1	2	3	1	2	3
	NaCl	161	130	29	138	280	186	303	316	263
	control	7	1	0	7	5	0	6	16	5
	total	168	131	29	145	285	186	309	332	268
	CI	0.92	0.98	1.00	0.90	0.96	1.00	0.96	0.90	0.96
	Average	0.96								
	SEM	0.02								
	Conditions	Conditioned								
	Trials	day1			day2			day3		
	Plates	1	2	3	1	2	3	1	2	3
	NaCl	108	182	62	98	118	146	117	126	71
	control	126	309	195	229	271	206	159	189	153
total	234	491	257	327	389	352	276	315	224	
CI	-0.08	-0.26	-0.52	-0.40	-0.39	-0.17	-0.15	-0.20	-0.37	
Average	-0.28									
SEM	0.08									
casy-1(tm748)	Conditions	Unconditioned								
	Trials	day1			day2			day3		
	Plates	1	2	3	1	2	3	1	2	3
	NaCl	49	47	33	169	101	106	170	178	139
	control	11	5	2	6	5	9	2	9	6
	total	60	52	35	175	106	115	172	187	145
	CI	0.63	0.81	0.89	0.93	0.91	0.84	0.98	0.90	0.92
	Average	0.87								
	SEM	0.06								
	Conditions	Conditioned								
	Trials	day1			day2			day3		
	Plates	1	2	3	1	2	3	1	2	3
	NaCl	193	83	245	372	71	55	89	96	90
	control	71	26	139	148	14	28	36	77	53
total	264	109	384	520	85	83	125	173	143	
CI	0.46	0.52	0.28	0.43	0.67	0.33	0.42	0.11	0.26	
Average	0.39									
SEM	0.10									

Fig. 3 B

wild-type	Conditions	Unconditioned			Conditioned		
		day1	day2	day3	day1	day2	day3
	Cold	66	170	182	68	n.d.	135
	Warm	3	12	65	82		92
	total	69	182	247	150		227
	TTXi	0.91	0.87	0.47	-0.09		0.19
	Average	0.75			0.05		
	SEM	0.14			0.14		

easy-1(tm718)	Conditions	Unconditioned				Conditioned			
		day1	day2	day3	day4	day1	day2	day3	day4
	Cold	169	52	89	81	40	33	21	114
	Warm	50	0	13	0	24	20	12	11
	total	219	52	102	81	64	53	33	125
	TTXi	0.54	1.00	0.75	1.00	0.25	0.25	0.27	0.82
	Average	0.82				0.40			
	SEM	0.11				0.14			

Fig. 4A

wild-type % LI= 99± (from Fig. 3B)
easy-1(tm718) % LI= 43± (from Fig. 3B)

<i>easy-1(tm718); zhlEx242.1[<i>easy-1minigene</i>]</i>	Conditions	Unconditioned								
	Trials	day 1			day 2			day 3		
	Plates	1	2	3	1	2		1	2	3
	DA	10	6	4	10	25	5	19	35	35
	EtOH	1	1	0	1	0	0	0	1	5
	N	0	3	1	0	7	3	4	7	14
	total	11	10	5	11	32		23	43	54
	CI	0.82	0.50	0.80	0.82	0.78		0.83	0.79	0.56
	Average	0.74								
	SEM	0.05								
	Conditions	Conditioned								
	Trials	day 1			day 2			day 3		
	Plates	1	2	3	1	2		1	2	3
	DA	21	43	9	3	9	43	5	15	15
	EtOH	14	26	7	3	6	26	2	9	2
	N	52	81	19	11	33	81	19	78	22
	total	87	150	35	17	48	150	26	102	39
CI	0.08	0.11	0.06	0.00	0.06	0.11	0.12	0.06	0.33	
Average	0.10									
SEM	0.03									
							% LI	86		

<i>easy-1(tm718)</i> sibs without array	Conditions	Unconditioned								
	Trials	day 1			day 2			day 3		
	Plates	1	2	3	1	2		1	2	3
	DA	20	20	33	8	2				
	EtOH	1	1	4	0	0				
	N	6	6	30	4	10				
	total	27	27	67	12	12				
	CI	0.70	0.70	0.43	0.67	0.17				
	Average	0.53								
	SEM	0.10								
	Conditions	Conditioned								
	Trials	day 1			day 2			day 3		
	Plates	1	2	3	1	2		1	2	3
	DA	19	19	16	18	5				
	EtOH	1	1	2	11	2				
	N	50	50	12	52	7				
	total	70	70	30	81	14				
CI	0.26	0.26	0.47	0.09	0.21					
Average	0.26									
SEM	0.06									
							% LI	52		

Fig. 4B

wild-type

% LI= 94 (from Fig. 3C)

easy-1(tm718)

% LI= 52 (from Fig. 3C)

<i>easy-1(tm718); zhEx242.1 [easy-1 minigene]</i>	Conditions	Unconditioned				
	Trials	day1	day2	day3		
	Cold	17	15	14		
	Warm	5	0	0		
	total	22	15	14		
	TTI	0.55	1.00	1.00		
	average	0.85				
	SEM	0.15				
	Conditions	conditioned				
	Trials	day1	day2	day3		
	Cold	4	7	8		
	Warm	4	5	4		
	total	8	12	12		
	TTI	0.00	0.17	0.33		
	average	0.17			% LI	80
	SEM	0.10				

<i>easy-1(tm718) sibs without array</i>	Conditions	Unconditioned				
	Trials	day1	day2	day3		
	Cold	81	133	169		
	Warm	0	0	0		
	total	81	133	169		
	TTI	1.00	1.00	1.00		
	average	1.00				
	SEM	0.00				
	Conditions	conditioned				
	Trials	day1	day2	day3		
	Cold	114	132	109		
	Warm	11	34	11		
	total	125	166	120		
	TTI	0.82	0.59	0.82		
	average	0.74			% LI	26
	SEM	0.08				

Fig. 4C

wild-type	Conditions	Unconditioned										
	trials	day 1			day 2			day 3				
	Plates	1	2	3	1	2	3	1	2	3		
	DA	46	43	92	67	26		68	130	342		
	EtOH	0	0	15	4	2		6	8	41		
	N	5	5	32	55	29		30	30	101		
	total	51	48	139	126	57		104	168	484		
	CI	0.90	0.90	0.55	0.50	0.42		0.60	0.73	0.62		
	Average	0.65										
	SEM	0.06										
	Conditions	Conditioned										
	trials	day 1			day 2			day 3				
	Plates	1	2	3	1	2	3	1	2	3		
	DA	16	21	23	47	9		85	86	37		
EtOH	9	18	11	31	6		54	61	32			
N	56	88	67	111	43		249	211	114			
total	81	127	101	189	58		388	358	183			
CI	0.09	0.02	0.12	0.08	0.05		0.08	0.07	0.03			
Average	0.07									% LI	90	
SEM	0.01											
easy-1(tm718)	Conditions	Unconditioned										
	trials	day 1			day 2			day 3				
	Plates	1	2	3	1	2	3	1	2	3		
	DA	107	30	97	23	25		107	30	97		
	EtOH	21	6	27	2	0		21	6	27		
	N	95	18	69	63	72		95	18	69		
	total	223	54	193	88	97		223	54	193		
	CI	0.39	0.44	0.36	0.24	0.26		0.39	0.44	0.36		
	Average	0.36										
	SEM	0.03										
	Conditions	Conditioned										
	trials	day 1			day 2			day 3				
	Plates	1	2	3	1	2	3	1	2	3		
	DA	60	25	16	13	4		60	25	16		
EtOH	31	12	0	0	0		31	12	0			
N	120	47	59	54	39		120	47	59			
total	211	84	75	67	43		211	84	75			
CI	0.14	0.15	0.21	0.19	0.09		0.14	0.15	0.21			
Average	0.16									% LI	55	
SEM	0.01											
easy-1(tm718); ztEX282.1[unc-119p::CLSTN2]	Conditions	Unconditioned										
	trials	day 1			day 2			day 3				
	Plates	1	2	3	1	2	3	1	2	3		
	DA	7	2	10	5	5	2	2	9	6		
	EtOH	1	1	1	0	0	0	0	2	2		
	N	7	6	10	2	2	2	2	2	2		
	total	15	9	21	7	7	4	4	13	10		
	CI	0.40	0.11	0.43	0.71	0.71	0.50	0.50	0.54	0.40		
	Average	0.48										
	SEM	0.06										
	Conditions	Conditioned										
	trials	day 1			day 2			day 3				
	Plates	1	2	3	1	2	3	1	2	3		
	DA	0	0	2	0	0	0	6	10	10		
EtOH	1	1	1	0	0	0	9	8	5			
N	4	3	6	10	3	7	35	13	17			
total	5	4	9	10	3	7	50	31	32			
CI	-0.20	-0.25	0.11	0.00	0.00	0.00	-0.06	0.06	0.16			
Average	-0.02									% LI	104	
SEM	0.05											
easy-1(tm718) sibs without ztEX282.1 array	Conditions	Unconditioned										
	trials	day 1			day 2			day 3				
	Plates	1	2	3	1	2	3	1	2	3		
	DA	18	34					8	16	21		
	EtOH	4	9					3	5	6		
	N	33	38					23	28	33		
	total	55	81					34	49	60		
	CI	0.25	0.31					0.15	0.22	0.25		
	Average	0.24										
	SEM	0.02										
	Conditions	Conditioned										
	trials	day 1			day 2			day 3				
	Plates	1	2	3	1	2	3	1	2	3		
	DA	3	3	10				20	10	9		
EtOH	1	1	7				12	10	12			
N	6	7	7				102	77	74			
total	10	11	24				134	97	95			
CI	0.20	0.18	0.13				0.06	0.00	-0.03			
Average	0.09									% LI	62	
SEM	0.03											
easy-1(tm718); ztEX282.2[unc-119p::CLSTN2]	Conditions	Unconditioned										
	trials	day 1			day 2			day 3				
	Plates	1	2	3	1	2	3	1	2	3		
	DA	7	24	25	5	14	14	19	30	15		
	EtOH	6	6	23	1	4	5	2	9	1		
	N	8	9	9	3	3	3	4	10	3		
	total	21	39	57	9	21	22	25	49	19		
	CI	0.05	0.46	0.04	0.44	0.48	0.41	0.68	0.43	0.74		
	Average	0.41										
	SEM	0.08										
	Conditions	Conditioned										
	trials	day 1			day 2			day 3				
	Plates	1	2	3	1	2	3	1	2	3		
	DA	18	8	9	8	5		3	3	3		
EtOH	17	11	5	6	5		3	1	10			
N	15	8	9	13	4		39	40	32			
total	50	27	23	27	14		45	44	45			
CI	0.02	-0.11	0.17	0.07	0.00		0.00	0.05	-0.16			
Average	0.01									% LI	99	
SEM	0.04											

casy-1(tm718) sibs without ztEx282.2 array	Conditions	Unconditioned										
	Trials	day 1			day 2			day 3				
	Plates	1	2	3	1	2	3	1	2	3		
	DA	6	27	19	5	34	44	5	195	72		
	EtOH	1	6	0	27	3	7	27	29	6		
	N	48	44	68	17	39	37	73	185	34		
	total	55	77	87	49	76	86	105	409	112		
	CI	0.09	0.27	0.22	-0.45	0.41	0.42	-0.21	0.41	0.58		
	Average	0.19										
	SEM	0.12										
	Conditions	Conditioned										
	Trials	day 1			day 2			day 3				
	Plates	1	2	3	1	2	3	1	2	3		
	DA	22	6	5	34	18		24	29	16		
	EtOH	12	8	13	8	6		11	11	7		
N	69	38	28	57	30		141	143	186			
total	103	52	46	99	54		176	183	209			
CI	0.10	-0.04	-0.17	0.26	0.22		0.07	0.10	0.04			
Average	0.07									% LI	62	
SEM	0.05											
casy-1(tm718), ztEx282.3[unc-119p::CLST12]	Conditions	Unconditioned										
	Trials	day 1			day 2			day 3				
	Plates	1	2	3	1	2	3	1	2	3		
	DA	53	16	8	10	9	27	4	4	5		
	EtOH	4	7	4	1	5	3	3	5	1		
	N	37	18	3	1	0	0	3	4	3		
	total	94	41	15	12	14	30	10	13	9		
	CI	0.52	0.22	0.27	0.75	0.29	0.80	0.10	-0.08	0.44		
	Average	0.37										
	SEM	0.10										
	Conditions	Conditioned										
	Trials	day 1			day 2			day 3				
	Plates	1	2	3	1	2	3	1	2	3		
	DA	13	12	3	13	6	13	3	3	1		
	EtOH	15	7		10	4	4	9	4	1		
N	20	8		5	0	15	3	1	1			
total	48	27	0	28	10	32	15	8	3			
CI	-0.04	0.19		0.11	0.20	0.28	-0.40	-0.13	0.00			
Average	0.03									% LI	93	
SEM	0.08											
casy-1(tm718) sibs without ztEx282.3 array	Conditions	Unconditioned										
	Trials	day 1			day 2			day 3				
	Plates	1	2	3	1	2	3	1	2	3		
	DA	16	6	6	5	38	63	46	33	29		
	EtOH	3	0	0	0	27	16	9	2	7		
	N	40	15	8	24	10	13	48	9	15		
	total	59	21	14	56	64	90	103	44	51		
	CI	0.22	0.29	0.43	-0.39	0.34	0.54	0.36	0.70	0.43		
	Average	0.33										
	SEM	0.11										
	Conditions	Conditioned										
	Trials	day 1			day 2			day 3				
	Plates	1	2	3	1	2	3	1	2	3		
	DA	2	1		49	19	52	7	20	71		
	EtOH	0	0	15	18	13	18	5	3	36		
N	29	7		30	7	39	14	38	102			
total	31	8		97	39	109	16	61	209			
CI	0.06	0.13		0.32	0.15	0.31	0.75	0.28	0.17			
Average	0.27									% LI	17	
SEM	0.08											
wild-type	Conditions	Unconditioned										
	Trials	day 1			day 2			day 3				
	Plates	1	2	3	1	2		1	2	3		
	DA	46	43	92	67	26		68	130	342		
	EtOH	0	0	15	4	2		6	3	41		
	N	5	5	32	55	29		30	30	101		
	total	51	48	139	126	57		104	168	484		
	CI	0.90	0.90	0.55	0.50	0.42		0.60	0.73	0.62		
	Average	0.65										
	SEM	0.06										
	Conditions	Conditioned										
	Trials	day 1			day 2			day 3				
	Plates	1	2	3	1	2		1	2	3		
	DA	16	21	23	47	9		85	86	37		
	EtOH	9	18	11	31	6		54	61	32		
N	56	88	67	111	43		249	211	114			
total	81	127	101	189	58		388	358	183			
CI	0.09	0.02	0.12	0.08	0.05		0.08	0.07	0.03			
Average	0.07									% LI	90	
SEM	0.01											
casy-1(tm718)	Conditions	Unconditioned										
	Trials	day 1			day 2			day 3				
	Plates	1	2	3	1	2		1	2	3		
	DA	107	30	97	23	25		107	30	97		
	EtOH	21	6	27	2	0		21	6	27		
	N	95	18	69	63	72		95	18	69		
	total	223	54	193	88	97		223	54	193		
	CI	0.39	0.44	0.36	0.24	0.26		0.39	0.44	0.36		
	Average	0.36										
	SEM	0.03										
	Conditions	Conditioned										
	Trials	day 1			day 2			day 3				
	Plates	1	2	3	1	2		1	2	3		
	DA	60	25	16	13	4		60	25	16		
	EtOH	31	12	0	0	0		31	12	0		
N	120	47	59	54	39		120	47	59			
total	211	84	75	67	43		211	84	75			
CI	0.14	0.15	0.21	0.19	0.09		0.14	0.15	0.21			
Average	0.16									% LI	55	
SEM	0.01											

Fig. 5A

wild-type % LI= 99 (from Fig. 3D)
casY-1(tm7) % LI= 43 (from Fig. 3D)

<i>glr-1(n2461)</i>	Conditions	Unconditioned								
	trials	day 1			day 2			day 3		
	Plates	1	2	3	1	2	3	1	2	3
	DA	113	85	114	128	103		77	104	
	EtOH	3	3	5	2	3		2	3	
	N	15	14	11	10	11		18	18	
	total	131	102	130	140	117		97	125	
	CI	0.84	0.80	0.84	0.90	0.85		0.77	0.81	
	Average	0.83								
	SEM	0.02								
	Conditions	Conditioned								
	trials	day 1			day 2			day 3		
	Plates	1	2	3	1	2	3	1	2	3
	DA	43	51	79	41	44		35	19	
EtOH	11	2	7	5	16		1	4		
N	34	37	48	44	42		28	17		
total	88	90	134	90	102		64	40		
CI	0.36	0.54	0.54	0.40	0.27		0.53	0.38		
Average	0.43									
SEM	0.04									
							% LI	48		

<i>casY-1(tm718); glr-1(n2461)</i>	Conditions	Unconditioned								
	trials	day 1			day 2			day 3		
	Plates	1	2	3	1	2	3	1	2	3
	DA	131	64		127	76		80	68	
	EtOH	27	29		40	4		5	1	
	N	86	69		165	102		5	7	
	total	244	162		332	182		90	76	
	CI	0.43	0.22		0.26	0.40		0.83	0.88	
	Average	0.50								
	SEM	0.12								
	Conditions	Conditioned								
	trials	day 1			day 2			day 3		
	Plates	1	2	3	1	2	3	1	2	3
	DA	75	44		78	80		49	50	
EtOH	59	28		26	24		8	13		
N	166	80		115	183		26	34		
total	300	152		219	287		83	97		
CI	0.05	0.11		0.24	0.20		0.49	0.38		
Average	0.24									
SEM	0.07									
							% LI	51		

<i>glr-1(n2461); zhEx243.1[glr-1(+)]</i>	Conditions	day 1	
	trials	day 1	
	Plates	1	2
	DA	25	16
	EtOH	0	1
	N	9	11
	total	34	28
	CI	0.74	0.54
	Average	0.64	
	Standard deviation	0.39	
	Conditions	day 1	
	trials	day 1	
	Plates	1	2
	DA	5	8
EtOH	4	2	
N	12	9	
total	21	19	
CI	0.05	0.32	
Average	0.18	% LI 71	
Standard deviation	0.39	SEM	

<i>zhEx243.1[glr-1(+)]</i>	Conditions	Unconditioned								
	trials	day 1			day 2			day 3		
	Plates	1	2	3	1	2	3	1	2	3
	DA	2	9		30			41	60	
	EtOH	0	1		0			6	11	
	N	6	26		54			4	6	
	total	8	36		84			51	77	
	CI	0.25	0.22		0.36			0.69	0.64	
	Average	0.43								
	SEM	0.10								

casy-1(tm718); ;	Conditions	Conditioned										
	Trials	day 1			day 2			day 3				
	Plates	1	2	3	1	2	3	1	2	3		
	DA	0	4		17	20		23	16			
	EtOH	0	2		12	11		17	17			
	N	43	47		73	49		21	7			
	total	43	53		102	80		61	40			
	CI	0.00	0.04		0.05	0.11		0.10	-0.03			
	Average	0.05									% LI	89
	SEM	0.02										

casy-1(tm718) sibs without zhEx243.1 array	Conditions	Unconditioned										
	Trials	day 1			day 2			day 3				
	Plates	1	2	3	1	2	3	1	2	3		
	DA	12	19		263			160	208			
	EtOH	0	0		23			32	31			
	N	24	51		301			20	54			
	total	36	70		587			212	293			
	CI	0.33	0.27		0.41			0.60	0.60			
	Average	0.44										
	SEM	0.07										
	Conditions	Conditioned										
	Trials	day 1			day 2			day 3				
Plates	1	2	3	1	2	3	1	2	3			
DA	4	13		33	91		64	136				
EtOH	1	1		6	10		31	99				
N	20	76		258	158		76	162				
total	25	90		297	259		171	397				
CI	0.12	0.13		0.09	0.31		0.19	0.09				
Average	0.16									% LI	65	
SEM	0.03											

casy-1(tm718) Ex[glr-1	SEM	0.05										
	Conditions	Conditioned										
	Trials	day 1			day 2			day 3				
	Plates	1	2	3	1	2	3	1	2	3		
	DA	4	11	20				1	4	1		
	EtOH	0	0	1				0	0	0		
	N	9	14	23				7	5	4		
	total	13	25	44				8	9	5		
	CI	0.31	0.44	0.43				0.13	0.44	0.20		
	Average	0.32									% LI	59
	SEM	0.06										

casy-1(tm718) Ex[glr-1p::casy-1] line-4	Conditions	Unconditioned										
	Trials	day 1			day 2			day 3				
	Plates	1	2	3	1	2	3	1	2	3		
	DA							7	5	2		
	EtOH							0	1	0		
	N							5	2	0		
	total							12	8	2		
	CI							0.58	0.50	1.00		
	Average	0.69										
	SEM	0.12										
	Conditions	Conditioned										
	Trials	day 1			day 2			day 3				
	Plates	1	2	3	1	2	3	1	2	3		
	DA							0	0	1		
	EtOH							3	0	1		
	N							15	7	9		
	total							18	7	11		
	CI							-0.17	0.00	0.00		
Average	-0.06									% LI	108	
SEM	0.04											

Average of rescue lines	Unconditioned					
	Lines	line 1	line 2	line 3	line 4	
	Average CI	0.77	0.66	0.79	0.69	
	SEM	0.06	0.14	0.05	0.12	
	Conditioned					
	Lines	line 1	line 2	line 3	line 4	
	Average CI	0.34	-0.02	0.32	-0.05	
	SEM	0.11	0.08	0.06	0.04	% LI