Fly strains	Description	Figures	Color
Wild-type	Canton-S	1f, 1g, 2a, 2b, S2, S3	⬛
ppk28	Loss-of-function mutant of the osmosensitive ion channel required for water taste	1f, 1g, S2	🟧
Tbh^{m18}	Tyramine β hydroxylase mutant that cannot synthesize octopamine.	2a	(dark grey)
dumb^{1}	Loss-of-function allele of dopamine receptor DopR1	2b, S3	(dark grey)
UAS-DopR1; *dumb*^{2}	Loss-of-function allele in dopamine receptor DopR1	2b, S3	(grey)
UAS-*DopR1*/NP1131; *dumb*^{2}	Rescue DopR1 in MB γ and subset of α′β′ neurons in *dumb*^{2} background	2b, S3	(purple)
UAS-*DopR1*/c739; *dumb*^{2}	Rescue DopR1 in MB αβ neurons in *dumb*^{2} background	2b, S3	(red)
UAS-*DopR1*/c305a; *dumb*^{2}	Rescue DopR1 in MB α′β′ neurons in *dumb*^{2} background	2b, S3	(green)
UAS-*DopR1*/201Y; *dumb*^{2}	Rescue DopR1 in MB γ and αβ-core neurons in *dumb*^{2} background	2b, S3	(cyan)
UAS-*shi*^{ts1}	A temperature-sensitive dominant-negative dynamin transgene under UAS control	2a, 2c-e, 3a, 3d, 3k-m, 3o, 4b-e, 4f, S4, S5l-n, S6a-b, S7	
UAS-*shi*$^{ts1\ (JFRC100)}$	A temperature-sensitive dominant-negative dynamin transgene under UAS-control	3d, 4c, S5a, S5b, S5c, S6c, S6e	
lexAop-*shi*^{ts1}; UAS-LexAi	A temperature-sensitive dominant-negative dynamin transgene under LexAop-control and a LexA RNAi transgene under UAS control	3k, 4e, S5g, S5h, S5i, S6d, S6f	
Tdc2-GAL4	Labels most octopaminergic/tyraminergic neurons	2a	(grey)
0273-GAL4	Labels entire PAM cluster of dopaminergic neurons and some MB output neurons	2c, 2e, S4a, S4b, S4c, S8	(grey)
R58E02-GAL4	Labels ~90 dopaminergic neurons in PAM cluster	2c, 2e, S4a, S4c, S8	(grey)
		S4b	(dark grey)
TH-GAL4	Labels all 12 dopaminergic neurons in PPL1 cluster and a few neurons in PAM cluster	2d	(grey)
0279-GAL4	Labels PAM dopaminergic neurons innervating β1 and β2 zones	3a	(grey)
NP2583-GAL4	Labels PAM dopaminergic neurons innervating β1 and α1 zones	3a	(grey)

R77E12-GAL4	Labels PAM dopaminergic neurons innervating $\gamma5$, $\beta1$ and $\beta'2a$ zones	3a	
R87D06-GAL4	Labels PAM dopaminergic neurons innervating $\alpha1$ zones	3a	
R15A04-GAL4	Labels PAM dopaminergic neurons innervating $\gamma5$, $\beta2$, $\beta'1$, $\alpha1$ zones	3a	
R48B04-GAL4	Labels PAM dopaminergic neurons innervating $\gamma5$, $\gamma4$, and $\beta'2$ zones	3a, 3d, 4b-c, S5a-c, S6a-d, S7, S8	
0104-GAL4	Labels PAM dopaminergic neurons innervating $\gamma5$, $\gamma4$, $\beta'2$ and $\beta2$ zones	3a, 4d, 4f, S6a, S6b	
R48B04-LexA; 0104-GAL4	LexA expressed in R48B04 neurons and GAL4 expressed in 0104 neurons	3k, 3l, 3m, S5g, S5h, S5i, S5j, S5k	
		4e, S6e, S6f	
R15A04-GAL80; R48B04-GAL4	Labels PAM dopaminergic neurons innervating $\gamma4$, and $\beta'2$ zones	3o, S5l, S5m, S5n	
R48B04-LexA	Labels PAM dopaminergic neurons innervating $\gamma5$, $\gamma4$, and $\beta'2$ zones	4e, S6e, S6f	
Tdc2-GAL4; UAS-shi^{ts1}	Block Tdc2-GAL4 labeled neurons in a temperature-dependent manner	2a	
0273-GAL4; UAS-shi^{ts1}	Block 0273-GAL4 labeled neurons in a temperature-dependent manner	2c, 2e, S4a, S4b, S4c	
R58E02-GAL4; UAS-shi^{ts1}	Block R58E02-GAL4 labeled neurons in a temperature-dependent manner	2c, 2e, S4a, S4b, S4c	
TH-GAL4; UAS-shi^{ts1}	Block TH-GAL4 labeled neurons in a temperature-dependent manner	2d	
0279-GAL4; UAS-shi^{ts1}	Block 0279-GAL4 labeled neurons in a temperature-dependent manner	3a	
NP2583-GAL4; UAS-shi^{ts1}	Block NP2583-GAL4 labeled neurons in a temperature-dependent manner	3a	
R77E12-GAL4; UAS-shi^{ts1}	Block R77E12-GAL4 labeled neurons in a temperature-dependent manner	3a	
R87D06-GAL4; UAS-shi^{ts1}	Block R87D06-GAL4 labeled neurons in a temperature-dependent manner	3a	
R15A04-GAL4; UAS-shi^{ts1}	Block R15A04-GAL4 labeled neurons in a temperature-dependent manner	3a	

R48B04-GAL4 UAS-*shi*^{ts1}	Block R48B04-GAL4 labeled neurons in a temperature-dependent manner	3a, 4b, S6a, S6b, S7, S8	■
R48B04-GAL4 UAS-*shi*^{ts1} (JFRC100)	Block R48B04-GAL4 labeled neurons in a temperature-dependent manner	3d, 4c, S5a, S5b, S5c, S6c, S6d	■
0104-GAL4; UAS-*shi*^{ts1}	Block 0104-GAL4 labeled neurons in a temperature-dependent manner	3a, 4d, 4f, S6a, S6b	■
lexAop-*shi*^{ts1}/R48B04-LexA; UAS-LexAi/0104-GAL4	Block PAM-γ4/5 dopaminergic neurons in a temperature-dependent manner	3k, 4e, S5g, S5h, S5i, S6e, S6f	■
lexAop-dTrpA1/R48B04-LexA; UAS-LexAi/0104-GAL4	Activate PAM-γ4/5 dopaminergic neurons in a temperature-dependent manner	3l, 3m, S5j, S5k	■
UAS-*shi*$^{ts1(JFRC100)}$; R48B04-GAL4/R58E02-GAL80	R58E02-GAL80 suppresses R48B04-GAL4 activity in PAM cluster to test whether phenotype results from R4804 blocking dopaminergic neurons	3d, 3c, S5c, S6c, S6d	■
R15A04-GAL80; R48B04-GAL4/UAS-*shi*^{ts1}	Block PAM-γ4 and β′ dopaminergic neurons in a temperature-dependent manner	3o, S5l, S5m, S5n	■
lexAop-*shi*^{ts1}/R48B04-LexA; UAS-LexAi	Block R48B04-LexA labeled dopaminergic neurons in a temperature-dependent manner	4e, S6e, S6f	■

Supplementary table 1.

Fly strains and their corresponding colors used in the bar-graphs.