

Supplemental Table S1. Sequencing statistics for small RNAs from fly heads

Genotype	Total reads	rRNA mapping reads	MicroRNA hairpin-mapping reads	Genome mapping reads (-rRNA; +miRNA hairpin)	Genome mapping reads (-rRNA; -miRNA hairpin)	Genome unique mapping reads (-rRNA; +miRNA hairpin)	Genome unique mapping reads (-rRNA; -miRNA hairpin)	white-inverted repeat mapping reads (18-23nt)	transposon mapping reads (18-23nt)	Study
wIR; <i>dicer-2</i> [null], <i>Act5C-Gal4/dicer-2</i> [null]; UAST-HA-Dicer-2- Δ Helicase/+	28,982,805	229,936	23,124,696	23,840,321	715,625	23,366,119	241,423	7,801	38,461	This study.
wIR; <i>dicer-2</i> [null], <i>Act5C-Gal4/dicer-2</i> [null]; UAST-HA-Dicer-2- Δ CdsRBD/+	27,415,052	245,433	22,145,084	22,828,396	683,312	22,365,355	220,271	34,952	35,498	This study.
wIR; <i>dicer-2</i> [null], <i>Act5C-Gal4/CyO</i> ; +	23,547,141	683,361	17,157,315	19,165,412	2,008,097	18,290,900	1,133,585	940,827	229,761	Kandasamy and Fukunaga (2016).
wIR; <i>dicer-2</i> [null], <i>Act5C-Gal4/dicer-2</i> [null]; +	26,130,170	170,603	21,380,781	21,940,504	559,723	21,566,518	175,737	4,261	22,332	Kandasamy and Fukunaga (2016).
wIR; <i>dicer-2</i> [null], <i>Act5C-Gal4/dicer-2</i> [null]; UAST-HA-Dicer-2[Wild-type]/+	53,337,727	789,604	40,850,471	45,729,007	4,878,536	43,610,530	2,760,059	2,117,529	540,671	Kandasamy and Fukunaga (2016).
wIR; <i>dicer-2</i> [null], <i>Act5C-Gal4/dicer-2</i> [null]; UAST-HA-Dicer-2[H743A,R752A,R759A,R943A,R956A]/+	22,651,215	327,368	17,064,725	18,529,415	1,464,690	17,947,400	882,675	676,569	177,335	Kandasamy and Fukunaga (2016).