Assessing the potential interactions between cellular miRNA and arboviral genomic RNA in the Yellow Fever mosquito, *Aedes aegypti*

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Supplementary Table 1 Most common miRNA sites targeting each genotype of CHIKV, DENV1-4, and ZIKV.

miRNAs	viruses	virus genotypes	binding regions	sequences	MFE (kcal/mol, miRanda)	Regulation/Description
aae-miR-1-3p	DENV-1	I	Capsid	UUUCAUAGCAUUCCUAACAUUUC	-13.06	• Upregulated in female fat body at 24 post-blood meal[89] • Significantly enriched at 14 days post-infection in ZIKV-infected mosquitoes[29]
			NS3	AGACGAGGAAAGAGACAUUCC	-9.86	
		II	NS3	AGAUGAGGAAAGAGACAUUCC	-8.99	
		III	Capsid	GGUGAUGGCUUUUAUAGCAUUCC	-12.26	
			NS3	AGAUGAGGAAAGAGACAUUCC	-8.99	
		IV	Capsid	GGUGAUGGCUUUUAUAGCAUUCC	-12.26	
			NS3	AGAUGAGGAAAGAGACAUUCC	-8.99	
		V	NS3	AGAUGAGGAAAGAGACAUUCC	-8.99	
	DENV-2	Asian-II	NS2B	CAGUUCACUUCUAAAGAAUGACAUUCC	-13.73	
		American	E	AGGUUUGUCUGCAAACAUUCC	-12.96	
	DENV-4	I	NS5	AAAGGUGAGGAAAGACAUUCC	-11.89	
		II	NS5	AAAGGUGAGGAAAGACAUUCC	-11.89	
		III	NS5	AAAAGUAAGGAAAGACAUUCC	-11.6	
aae-miR-11-5p	CHIKV	IOL	26S RNA UTR	AUCAGCUACAAUGGAGUUC	-18.84	• Detectable during all developmental stages[90] • Upregulated in the midgut after blood meal[91] • *Wolbachia*-suppressed miRNA[92]
		ECSA	26S RNA UTR	AUCAGCUACAAUGGAGUUC	-18.84	
	DENV-1	I	NS1	CACUCUAUGGAGCAAUGGAGUUC	-19.64	
			NS4B	AGAUGGAUAUAGGAGUUC	-13.28	
		II	NS1	CACUCUAUGGAGCAAUGGAGUUC	-19.64	
			NS4A	CCUCCAUCAUACUGGAGUUC	-22.08	
			NS4B	AGAUGGACAUAGGAGUUC	-14.12	
		IV	NS4B	AGAUGGACAUAGGAGUUC	-14.12	
		V	NS4B	AGAUGGACAUAGGAGUUC	-14.12	

	DENV-2	Asian-II	NS5	GAGAAGAAGCUAGGGGAGUUC	-13.41	
		American	NS4A	CUUCAAUAAUAUUGGAGUUC	-15.89	
	DENV-3	II	NS2A	AACACAUGAUUGCAGGGGUUC	-18.19	
		V	NS2A	AACACAUGAUUGCAGGGGUUC	-18.19	
	DENV-4	I	NS5	CUCAUUUCGAGAGUGAAGGAGUUC	-18.12	
		II	E	UUCAGGAAAGGGAGUUC	-17.03	
			NS5	CUUCAGAGAGUGAAGGAGUUC	-18.25	
	ZIKV	EA	NS1	UCCUAGAGGAGAAUGGAGUUC	-16.41	
aae-miR-124-3p	DENV-1	II	NS5	UGAUUGGCAACAAGUGCCUU	-14.07	• Detectable during the larval stage[90]
		IV	NS5	CGAUUGGCAACAAGUGCCUU	-14.07	
	DENV-2	Asian American	NS5	CGAUUGGACACAAGUGCCUU	-16.29	
	DENV-3	I	NS4A	AAAUAGGAAGAGUGCCUU	-10.41	
		II	NS4A	AAAUAGGAAGAGUGCCUU	-10.41	
		III	NS4A	AAAUAGGAAGAGUGCCUU	-10.41	
		V	NS4A	AAAUAGGAAGAGUGCCUU	-10.41	
aae-miR-219-5p	DENV-1	IV	E	AUGAGAUGGUGUUGUUGACAAUG	-15.76	• *Wolbachia* induced miRNA in *Ae. aegypti* Aag2 cells[92] • Detectable during all developmental stages[90]
	DENV-2	Asian-I	NS2A	AUUGGAUACCAUUAGCACUGACAAUC	-10.77	
		Asian-II	NS3	GGAAAAAAGCAUUGAAGACAAUC	-11.9	
		American	NS3	UGAAAAAAGCAUUGAAGACAAUC	-11.9	
		Cosmopolitan	NS3	CUGAAAAAAACAUUGAAGACAAUC	-8.93	
	DENV-3	I	2K	AGAGAACUCCCCAAGACAAUC	-12.56	
	DENV-4	I	2K	CAAAGGACCCCACAAGACAAUC	-12.61	
			NS5	AGAAAAACCAGACAUGACAAUC	-10.25	
		II	2K	CAAAGGACCCCACAAGACAAUC	-12.61	
			NS5	AGAAAAACCAGACAUGACAAUC	-10.25	
		III	NS5	AGAGAAACCAGACAUGACAAUC	-12.86	
	ZIKV	WA	NS4A	UCAGGAAGCCAUUGACAAUC	-14.09	
aae-miR-263a-3p	DENV-1	I	3'UTR	AUCAUUCCAGGCACAGAACGC	-18.04	• Detectable in mosquito cells [92]
		II	NS2A	AAAAUGCUGAUGGUUGGAACAC	-15.5	

		III	3'UTR	AUCAUUCCAGGCACAGAACGC	-18.04	
		IV	3'UTR	AUCAUUCCAGGCACAGAACGC	-18.04	
		V	3'UTR	AUCAUUCCAGGCACAGAACGC	-18.04	
	DENV-2	Asian-I	3'UTR	AUCAUUCCAGGCACAGAACGC	-18.04	
		Asian American	3'UTR	AUCAUUCCAGGCACAGAACGC	-18.04	
		American	3'UTR	AUCAUUCCAGGCACAGAACGC	-18.04	
		Cosmopolitan	3'UTR	AUCAUUCCAGGCACAGAACGC	-18.04	
	DENV-3	II	NS2B	AUGAUGAGACUGAGAACAU	-17.25	
			3'UTR	AUCAUUCCAGGCACAGAACGC	-18.04	
		III	NS2B	AUGAUGAGACUGAGAACAU	-17.25	
			3'UTR	AUCAUUCCAGGCACAGAACGC	-18.04	
		V	3'UTR	AUCAUUCCAGGCACAGAACGC	-18.04	
	DENV-4	III	NS2B	UAUAUGUGGCAAGUGAGAACAC	-15.62	
	ZIKV	WA	NS5	GUGGACAAGGAAAGAGAACAC	-12.13	
aae-miR-263a-5p	CHIKV	IOL	nsP3	AAUGCUAUUUGACCACAACGUGCCAU	-15.1	• Increased in the saliva of CHIKV-infected mosquitoes at 10 days post-infection[47]
		WA	E2	UGCAAAAUUGAUCAGUGCCAU	-16.75	
		Asian	nsP3	AUGUUAUUUGAUCACAAUGUGCCAU	-14.78	
		ECSA	nsP3	AAUGCUAUUUGACCACAACGUGCCAU	-15.1	
	DENV-1	II	NS3	GAGAUAGUUGACCUUAUGUGCCAU	-13.31	
	DENV-2	Cosmopolitan	NS3	GAGUGGAACAUAUGUGAGUGCCAU	-17.18	
	ZIKV	EA	NS3	UCGUUGAUUUGAUGUGCCAU	-16.78	
		WA	NS3	UCGUCGAUUUGAUGUGCCAU	-16.78	
aae-miR-279-3p	CHIKV	IOL	E1	AGUACCGUAUAAGACUCUAGUC	-12.34	• Present in embryos, and could be induced in the midgut after blood meal[91] • In Drosophila, miR-279-3p is involved in the formation of the CO_2 sensory neuron in maxillary palps[93]
		Asian	E1	AGUACCGUAUAAGACUCUAGUC	-12.34	
		ECSA	E1	AGUACCGUAUAAGACUCUAGUC	-12.34	
	DENV-1	III	NS1	AGAAGGAAGAGAAUCUAGUC	-14.82	
		V	NS1	AGAAGGAGGAGAAUCUAGUC	-17.52	
	ZIKV	Asian	NS5	UAGGUGAGUCAUCAUCUAGUC	-18.35	
		EA	NS5	UAGGUGAGUCAUCAUCUAGUC	-18.35	

aae-miR-281-3p	CHIKV	IOL	nsP1	GUUCAUGUACAAUGCCAUGGC	-16.96	• Detectable in Aag2 cells[92] • Upregulated in the midgut after blood meal[91]
		Asian	nsP3	CCUUUGCCGUUAUGCCAUGAC	-11.74	
	DENV-2	Asian-I	NS2B	AAAAAAUGAUAUCCCCAUGAC	-13.59	
			NS5	UGUUCACACCAUUUCCAUGAG	-12.5	
		Asian-II	NS2B	UAAAGAAUGACAUUCCCAUGAC	-18.78	
		Asian American	NS2B	UAAAGAAUGACAUUCCUAUGAC	-18.78	
		Cosmopolitan	NS2B	UAAAGAAUGAUAUUCCCAUGAC	-18.7	
	DENV-3	I	prM	GCUGGUCACCCCAUCCAUGAC	-14.86	
		II	prM	GCUGGUCACUCCAUCCAUGAC	-16.07	
		III	prM	GCUGGUCACCCCAUCCAUGAC	-14.86	
		V	prM	GCUGGUUACCCCAUCCAUGAC	-14.86	
	DENV-4	I	NS2A	UGGUAAUAGGAAUGGCCAUGAC	-17.21	
		II	E	GGAACACUUCAAUGGCCAUGAC	-17.44	
		II	NS2A	UGGUAAUAGGAAUGGCCAUGAC	-17.21	
		III	NS2A	UGGUGAUAGGAAUGGCCAUGAC	-18.91	
aae-miR-282-5p	DENV-1	I	Capsid	CCCCCAACAGCAGGAAUUUUGGCUAGAU	-19.16	• The expression profile is not clear
			NS3	AAGAAAGAAACUACGACCCCGCUGGCUAGAU	-16.91	
		II	Capsid	CCCCCAACAGCAGGAAUUUUGGCUAGAU	-19.16	
			E	GAUUGUUCACCUAGAACAGGGCUAGAU	-23.42	
		III	Capsid	CCCCCAACAGCAGGAAUUUUGGCUAGAU	-19.16	
		IV	Capsid	CCUCCAACAGCAGGAAUUUUGGCUAGAU	-19.16	
		V	Capsid	CCCCCAACAGCAGGAAUUUUGGCUAGAU	-19.16	
	DENV-3	II	Capsid	CCACCAACAGCAGGAGUUUUGGCUAGAU	-23.63	
		III	Capsid	CCACCAACAGCAGGAGUCUUGGCUAGAU	-23.63	
	ZIKV	Asian	NS3	AGAGUAAUGACUCGUAGACUGCUAGGU	-18.21	
aae-miR-285-5p	CHIKV	IOL	E1	GCACUGAUUCUAAUCGUGGUGCU	-22.74	• Detectable in both male and female adults, but rarely observed in the larval stage[90]
		WA	E1	GCCUUAAUUUUAAUUGUGGUGCU	-14.41	
		ECSA	E1	GCACUGAUUCUAAUCGUGGUGCU	-22.74	
	DENV-2	Cosmopolitan	NS3	ACGCAGACAGAAGAUGGUGCU	-13.33	

	DENV-3	II	NS3	ACACAGAUAGAAAAUGGUGCU	-15.32	
	ZIKV	WA	NS1	GGGUCAUAGAGGAAUGGUGCU	-18.44	
			NS3	ACACAGAUAGAAGAUGGUGCU	-14.94	
		Asian	NS3	ACACAGAUAGAAGAUGGUGCU	-14.94	
aae-miR-286a-3p	CHIKV	ECSA	E1	ACGGUGGGAGUACCGUAUAAGACUCUAGUC	-22.09	• Significantly reduced at 2 days after ZIKV infection[29] • Detectable during embryo stage, and less abundant in adults[90,91] • Ovary specific expressed miRNA [94]
	ZIKV	WA	5'UTR	UGGAAACGAGAGUUUCUGGUC	-23.15	
			NS5	AUGAUCCAAGAUUUUGGGCUCUAGUG	-13.39	
		Asian	5'UTR	UGGAAACGAGAGUUUCUGGUC	-23.15	
			NS5	CAUAGGUGAGUCAUCAUCUAGUC	-18.44	
		EA	5'UTR	UGGAAACGAGAGUUUCUGGUC	-23.15	
			NS5	CAUAGGUGAGUCAUCAUCUAGUC	-18.44	
aae-miR-286b-3p	CHIKV	ECSA	E1	ACGGUGGGAGUACCGUAUAAGACUCUAGUC	-20.23	• Significantly reduced at 7 and 14 days after ZIKV infection[29] • Ovary specific expressed miRNA [94]
	DENV-1	I	NS2A	UUCUUACAAUUGGAUUGAGUCUAGUG	-14.43	
	ZIKV	WA	5'UTR	UGGAAACGAGAGUUUCUGGUC	-24.83	
		Asian	5'UTR	UGGAAACGAGAGUUUCUGGUC	-24.83	
		EA	5'UTR	UGGAAACGAGAGUUUCUGGUC	-24.83	
			NS5	CAUAGGUGAGUCAUCAUCUAGUC	-16.72	
aae-miR-305-5p	CHIKV	IOL	nsP2	AAUGCGCACUACGAAUGAGUACAA	-14.17	• Abundant in Aag2 cells and mosquitoes during the pupal stage[29,90,92] • Upregulated in salivary glands after CHIKV infection[47] • The expression switched to aae-miR-305-3p in response to DENV-2 infection[25] • Upregulated in the fat body of *Ae. aegypti* after blood meal[95] • Down regulated in response to DENV-2 infection[31]
			E1	UGAUUACAUCACGUGCGAGUACAA	-14.81	
		Asian	nsP2	AAUGCGCACUACGAAUGAGUACAA	-14.17	
		ECSA	nsP2	AAUGCGCACUACGAAUGAGUACAA	-14.17	
	DENV-3	III	E	AUACUCAUUAAGGUUGAGUACAA	-11.67	
	DENV-4	I	NS1	CGUGCACACUUGGACAGAACAGUACAA	-16.46	
			NS5	GGAAGGAGUUUGAAGAGUACAA	-14.83	
			NS5	CACAUUCACCAACAUGGAAGUACAA	-17.17	
		II	NS1	CGUGCACACUUGGACAGAACAGUACAA	-16.46	
		III	NS5	CACAUUCACCAACAUGGAAGUACAA	-17.17	
aae-miR-315-5p	CHIKV	IOL	nsP1	UCCCUUUGAGGACUAGAAUCAAA	-11.73	• Induced by Palm Creek virus (PCV) infection at 6 days post-infection[30] • Potentially targets the 3'UTR of the juvenile hormone-regulated
		WA	nsP4	AAAAUUUGCGUGCAAUCAAG	-12.55	

		ECSA	nsP1	UCCCGUUGAGGACUAGAAUCAAA	-11.13	serine protease (JHA15) and AaArgM3[96,97]
	DENV-1	IV	NS5	ACCAAUUGAGCAAAUCAGA	-16.2	
	DENV-2	Asian-I	Capsid	GGGAACAAUUAAAAAAUCAAA	-11.23	
		Asian-II	NS5	AUCCAAACAGCAAUAAAUCAAG	-11.95	
		American	NS5	UAGUUCCAUGCAGAAAUCAAG	-13.29	
		Cosmopolitan	NS5	AUCCAAACAGCAAUAAAUCAAG	-11.95	
	ZIKV	EA	Capsid	CCAUGUUGAGAAUAAUCAAU	-14.27	
		WA	2K	AUCUCCCCAGGAUAAUCAAA	-9.35	
aae-miR-316-5p	CHIKV	IOL	nsP1	GCCCGGGACGCAGAAAAAGAA	-13.83	• Detectable in the fat body[95] • Upregulated in midgut, 24 hrs after blood meal[91]
	DENV-1	I	Capsid	GAACAACCAACGGAAAAAGAC	-20.34	
			NS5	AUGGGAAAAGUGAGGAAAGAC	-19.3	
		II	NS3	GGCCAGUGUCAAAAAAGAC	-14.4	
			NS3	AUCCAAGAUGAGGAAAGAGAC	-18	
			NS5	AUGGGAAAAGUAAGAAAAGAC	-17.89	
		III	Capsid	GAACAACCAACGGAAGAAGAC	-20.48	
			NS5	UGGGAGAAAAAUGGAAAAGAC	-19.12	
			NS5	AUGGGAAAAGUGAGAAAAGAC	-19.68	
		IV	Capsid	GAACAACCAACGGAAAAAGAC	-20.34	
		V	Capsid	GAACAACCAACGGAAAAAGAC	-20.34	
			NS5	AUGGGAAAAGUAAGAAAAGAC	-17.89	
	DENV-2	Asian-I	Capsid	GAAUAACCAACGGAAAAAGGC	-19.59	
			NS5	AAGAAUUAGGGAAGAAAAAGAC	-13.98	
		Asian-II	Capsid	GAAUAACCAACGGAAAAAGGC	-19.59	
		Asian American	Capsid	GAAUAACCAACGGAAAAAGGC	-19.59	
			NS1	UGUCAGCAGCCAUAAAAGAC	-15.36	
		American	Capsid	GAAUAACCAACGGAAAAAGGC	-19.59	
			NS5	AAGAACUAGGAAAGAAAAAGAC	-15.04	
			NS5	CAACAUGAUGGGAAAAAGAG	-13.52	
		Cosmopolitan	Capsid	GAAUAACCAACGGAAAAAGGC	-19.59	

			NS1	UGUCAGCAGCCAUAAAAGAC	-15.36	
			NS4A	UCUUGAUGAGCGGAAAAGGC	-20.74	
	DENV-3	I	Capsid	GAACAACCAACGGAAAAAGAC	-20.34	
			NS3	UGACACAGAAUAUCAAAAGAC	-8.61	
		II	Capsid	GAACAACCAACGAAAAAAGAC	-13.47	
			Capsid	UAUCAACAAAAGGAAAAAGAC	-17.7	
		III	Capsid	GAACAACCAACGGAAGAAGAC	-20.48	
			Capsid	AAUCAACCAACGGAAAAAGAC	-20.4	
		V	Capsid	GAACAACCAACGGAAAAAGAC	-20.34	
			Capsid	UAUCAACAAACGGAAAAAGAC	-20.4	
	DENV-4	I	NS5	GAACAGAGUGUGGAUAGAAGAC	-21.5	
		II	NS5	GAACAGAGUGUGGAUAGAAGAC	-21.5	
	ZIKV	EA	NS5	AGUCCUGAAGUGGAAGAGAC	-18.52	
aae-miR-34-3p	CHIKV	IOL	nsP1	CAUGCCGCUGUGAUACAGUGGUU	-14.18	• Upregulated in response to CHIKV infection[53] • Detectable during all the developmental stages, but the expression level was relatively low during the pupal stage[90] • The expression of this miRNA was correlated with the nutritional status of adults and can be suppressed in the midgut when adults are starved[98] • Increased in the abundance of 5′ Trim isomiRs in response to DENV-2 infection[99]
			nsP1	GCUGAACCAGAGAAUAGUGGUU	-14.74	
		WA	nsP4	GUCCAAAGGCUGAAGGGUGGUU	-19.31	
		Asian	nsP1	CAUGCCGCUGUGACACAGUGGUU	-14.18	
			nsP1	GCUGAACCAGAGAAUAGUGGUU	-14.74	
		ECSA	nsP1	CAUGCCGCUGUGAUACAGUGGUU	-14.18	
			nsP1	GCUGAACCAGAGAAUAGUGGUU	-14.74	
	DENV-1	I	3'UTR	CAUGGGGUAGCAGACUAGUGGUU	-20.16	
		III	3'UTR	CAUGGGGUAGCAGACUAGUGGUU	-20.16	
		IV	3'UTR	CAUGGGGUAGCAGACUAGUGGUU	-20.16	
	DENV-2	Asian-I	NS2A	AGACCUAGGAAGAGUGGUGGUU	-16.15	
		Cosmopolitan	NS5	UCAUCCAUGGUGAACGGAGUGGUU	-18.17	
	DENV-3	I	prM	UUCCUUGACCCAGAAAGUGGUU	-10.1	
			3'UTR	CACGGUGUAGCAGACUAGUGGUU	-20.21	
		II	prM	UUCCCUGACCCAGAAAGUGGUU	-10.1	
			NS3	GACUGUAUGGCAAUGGAGUGGUU	-19.15	

		III	NS3	GACUGUAUGGCAAUGGAGUGGUU	-19.15	
		V	prM	UUCCUUGACCCAGAAAGUGGUU	-10.1	
			NS3	GACUGUAUGGCAAUGGAGUGGUU	-19.15	
			3'UTR	CACGGUGUAGCAGACUAGUGGUU	-20.21	
	DENV-4	I	E	GUGAACAAGGAAAAAGUGGUU	-17.78	
		II	E	GAACCUUGAAUACACAGUGGUU	-13.34	
		III	E	UGUGAACAAAGAAAAAGUGGUU	-14.92	
			NS5	CAAAACUAGGCACACGAGUGGUU	-15.39	
	ZIKV	WA	3'UTR	UCCAGCAGAAGGACUAGUGGUU	-20.97	
		Asian	3'UTR	CCCAGAAGAGGGACUAGUGGUU	-17.3	
		EA	E	GUUGGUGCACAAAGAGUGGUU	-13.53	
			3'UTR	UCCAGCAGAGGGACUAGUGGUU	-21.41	
aae-miR-79-3p	DENV-1	I	NS4A	AAACGUUAAUGCUCCUAGCUUU	-13.74	• Relatively low expression level[91]
		III	NS4A	AAACAUUGAUGCUCCUAGCUUU	-13.75	
		IV	2K	CAUAUGUGGUGAUAGCUUU	-15.19	
		V	NS4A	AAACAUUGAUGCUUCUAGCUUU	-16.32	
	DENV-3	I	Capsid	UGGUCAUGGCGUUCAUAGCUUU	-11.8	
		II	Capsid	UGGUUAUGGCGUUCAUAGCUUU	-14	
		III	Capsid	UGGUUAUGGCGUUCAUAGCUUU	-14	
		V	Capsid	UGGUUAUGGCGUUUAUAGCUUU	-12.3	
	DENV-4	II	prM	AGAGAAGCGCUCAGUAGCUUU	-11.81	
aae-miR-92a-3p	DENV-1	I	NS5	GCAAAAGGAAGUCGUGCAAU	-13.7	• The expression profile is not clear
		II	NS5	GCAAAAGGAAGUCGUGCAAU	-13.7	
		III	NS5	GCAAAAGGAAGUCGUGCAAU	-13.7	
		V	NS5	GCAAAAGGAAGUCGUGCAAU	-13.7	
	DENV-3	I	prM	ACCUACGGAACGUGCAAU	-13.85	
		II	prM	GACUUAUGGAACGUGCAAU	-11.68	
		III	prM	GACUUAUGGAACGUGCAAU	-11.68	
			E	AAUAGAGGGAAAAGUGGUGCAAU	-19.35	

aae-miR-92b-3p	DENV-1	I	NS5	GGCAAAAGGAAGUCGUGCAAU	-14.72	• The expression profile is not clear
		II	NS5	GGCAAAAGGAAGUCGUGCAAU	-14.72	
		III	NS5	GGCAAAAGGAAGUCGUGCAAU	-14.72	
		V	NS5	GGCAAAAGGAAGUCGUGCAAU	-14.72	
	DENV-2	Asian-I	NS3	UGGAGCAUAUGUGAGUGCAAU	-12.57	
	DENV-3	I	prM	GACCUACGGAACGUGCAAU	-14.11	
		II	prM	UGACUUAUGGAACGUGCAAU	-12.13	
		III	prM	UGACUUAUGGAACGUGCAAU	-12.13	
			E	CAAUAGAGGGAAAAGUGGUGCAAU	-17.65	
	DENV-4	II	NS2B	GAAGGCCGCUAGUGUGCAAU	-20.74	
	ZIKV	WA	NS5	AAAGCAAAAGGCAGCCGUGCAAU	-14.29	
aae-miR-989-3p	CHIKV	IOL	nsP4	CAACACAUUGUUAAACAUCAC	-15.2	• Down regulated in response to CHIKV infection in *Ae. aegypti* Aag2 cells[53] • Up regulated in response to ZIKV infection at 2 and 14 days post-infection[29] • Down regulated in *Wolbachia*-infected mosquitoes[100] • The most abundant miRNA in the ovaries[94]
		WA	nsP4	AAUACACUGCUAAACAUCAC	-18.88	
			E1	CUGUCACUUGACUACAUCAC	-20.31	
		ECSA	nsP4	CAACACACUGCUAAAUAUCAC	-17.71	
	DENV-1	II	NS5	UCUAGAUUACAUGACAUCAA	-11.96	
		III	NS5	UUUAGACUACAUGACAUCAA	-14.18	
			NS4B	CUGAUACUUUGUACAUCAC	-18.69	
		V	NS4B	CUGAUACUUUGUACAUCAC	-18.69	
	ZIKV	Asian	NS2B	GAAAGAGCAGGUGACAUCAC	-15	
		EA	NS2B	GAAAGAGCAGGUGACAUCAC	-15	
aae-miR-996-3p	CHIKV	IOL	E1	GAGUACCGUAUAAGACUCUAGUC	-15.27	• The most abundant miRNA in embryos[94]
		Asian	E1	GAGUACCGUAUAAGACUCUAGUC	-15.27	
		ECSA	E1	GAGUACCGUAUAAGACUCUAGUC	-15.27	
	DENV-1	III	NS1	GAGAAGGAAGAGAAUCUAGUC	-16.47	
	ZIKV	Asian	NS5	GGUGAGUCAUCAUCUAGUC	-18.33	
		EA	NS5	GGUGAGUCAUCAUCUAGUC	-18.33	
aae-miR-998-3p	CHIKV	WA	E1	CCUUAAUUUUAAUUGUGGUGCU	-16.67	• Detectable during all the developmental stages[91]
	DENV-1	I	3'UTR	AGAAAAUGGAAUGGUGCU	-15.16	

		III	3'UTR	AGAAAAUGGAAUGGUGCU	-15.16	
		IV	3'UTR	AGAAAAUGGAAUGGUGCU	-15.16	
		V	E	CUUUAAUGAGAUGGUGCU	-16.04	
			3'UTR	AGAAAAUGGAAUGGUGCU	-15.16	
	DENV-2	Asian-I	3'UTR	AGAAAAUGGAAUGGUGCU	-15.16	
		Asian-II	3'UTR	AGAAAAUGGAAUGGUGCU	-15.16	
		Asian American	3'UTR	AGAAAAUGGAAUGGUGCU	-15.16	
		Cosmopolitan	3'UTR	AGAAAAUGGAAUGGUGCU	-15.16	
	DENV-3	I	3'UTR	AGAAAAUGGAAUGGUGCU	-15.16	
		II	NS3	CAGAUAGAAAAUGGUGCU	-13.96	
			3'UTR	AGAAAAUGGAAUGGUGCU	-15.16	
		III	NS3	CAGAUAGAAAAUGGUGCU	-13.96	
			3'UTR	AGAAAAUGGAAUGGUGCU	-15.16	
		V	NS3	CAGAUAGAAAAUGGUGCU	-13.96	
			3'UTR	AGAAAAUGGAAUGGUGCU	-15.16	
aae-miR-9c-5p	DENV-2	Asian-I	NS5	AUCAUAUCGAGAAGAGACCAAAG	-16.48	• Down regulated in DENV-2 infected mosquitoes at 9 days post-infection[31] • Down regulated in the fat body of mosquitoes at 24 hrs after blood meal[95]
		Asian-II	NS5	AUCAUAUCGAGAAGAGACCAAAG	-16.48	
		Asian American	NS5	AUCAUAUCGAGAAGAGACCAAAG	-16.48	
		American	NS5	CAUAUCGAGAAAAGACCAAAG	-13.98	
		Cosmopolitan	NS5	AUUAUAUCGAGAAGAGACCAAAG	-18.63	
	DENV-4	I	3'UTR	UCACCAACAAAAACACCAAAG	-11.81	
		II	3'UTR	CCAACAACAAACACCAAAG	-11.47	
		III	Capsid	GGGACAGUUGAAGAAAACCAAGG	-19.29	
			NS5	AUCAUAUCCAGGAAAGACCAAAG	-14.95	
	ZIKV	Asian	NS5	AUUAUUUCGAGACAAGACCAAAG	-14.59	
aae-miR-iab-4-5p	CHIKV	IOL	nsP1	CCAUCAUGGAUCCUGUGUACG	-16.87	• Arm switched from 5' to 3' in response to DENV-2 infection[25]
			3'UTR	GAAAAAUACAUAAAUAGGUAUACG	-16.31	
		WA	3'UTR	AAAUCUCAUAAACAGGUAUACG	-12.6	
		ECSA	nsP1	CCAUCAUGGAUCCUGUGUACG	-16.87	

			3'UTR	GAAAAAUACAUAAAUAGGUAUACG	-16.31	
	DENV-2	Asian-II	prM	UGAAGAUACAAUCACGUAUAAG	-15.14	
aae-miR-new8	CHIKV	IOL	nsP1	GGCAGGUCACACCGAAUGACCA	-10.63	• Detectable in the very early stages of embryo development and decreases during embryogenesis[90]
		WA	nsP1	GGCAGGUCACACCGAAUGACCA	-10.63	
	DENV-1	IV	NS1	UUUACUCAAGUGUGUGACCA	-16.85	
			NS2A	UGCAUGGAAGACAAUGGCCA	-13.16	
	DENV-2	Asian-I	NS2A	CCAAGGAAUUGAUGAUGACCA	-10.42	
			NS3	CCAAAAAAUGAAAAUGACCA	-15.73	
		Asian-II	NS5	ACAUCAUGGCACUAUGACCA	-11.03	
		Asian American	NS3	CCAAAAAAUGAAAAUGACCA	-15.73	
			NS5	ACAUCAUGGCACUAUGACCA	-11.03	
		Cosmopolitan	NS3	CCAAAAAAUGAAAAUGACCA	-15.73	
			NS5	ACAUCAUGGCACUAUGACCA	-11.03	
	DENV-3	I	NS3	CCACAAAAAGAGAAUGACCA	-16.53	
		II	NS5	UCACCAUCAGUGGAUGACCA	-11.19	
		III	NS3	CCACAAAAAGAGAAUGACCA	-21.12	
	DENV-4	I	NS5	UACACGAGUAGUCAUGACCA	-15.34	
		II	NS2A	CUAAUGGUAAUAGGAAUGGCCA	-12.48	
			NS5	CACACGAAUGGUUAUGACCA	-15.44	
			NS5	CAUCACCAAUGGAUGACCA	-10	
		III	NS5	CACACGAGUGGUUAUGACCA	-15.44	
	ZIKV	WA	NS2A	UUUGAAGAAGAGAAUGACCA	-16.46	
		Asian	NS2A	GCUGAAGAAGAGAAUGACCA	-16.46	
			NS5	GGAAAGGGAGAAUGGAUGACCA	-13.49	
		EA	E	GUGUUCUAAGAAGAUGACCG	-18.86	
			NS2A	GUUGAAGAAGAGAAUGACCA	-16.46	
			NS5	GGAAAGGGAGAAUGGAUGACCA	-13.49	