

Table S4. Overview of all miRNA families

Seed	<i>C.elegans</i>	<i>C.briggsae</i>	<i>C.remanei</i>	<i>C.brenneri</i>
acuggc	mir-240-3p	cbr-miR-240		
gauaug	cel-miR-90 ,cel-miR-62 ,cel-miR-50	cbr-miR-90b ,cbr-miR-90 ,cbr-miR-50 ,cbr-miR-62	crm-miR-90 ,crm-miR-50 ,crm-miR-62	Cbre_Contig18_3297 ,Cbre_Contig7_1751 ,Cbre_Contig32_5288
ugagca	cel-miR-87 ,cel-miR-233 ,cel-mir-356	cbr-miR-87 ,cbr-miR-233 ,cbr-miR-87 ,cbr-miR-233	crm-miR-87 ,crm-miR-233	Cbre_Contig1033_46542 ,Cbre_Contig97_17971
aaguga	cel-miR-86-5p ,cel-miR-785	cbr-miR-86 ,cbr-miR-785 ,chrX_43451	crm-miR-86 ,crm-miR-785	Cbre_Contig146_23462 ,Cbre_Contig0_9
acaaag	cel-miR-85	cbr-miR-85	crm-miR-85	Cbre_Contig90_17529 ,Cbre_Contig92_17690 ,Cbre_Contig235_28115 ,Cbre_Contig9_2038
agcacc	cel-miR-83-5p ,cel-miR-49	cbr-miR-83 ,cbr-miR-49	crm-miR-83 ,crm-miR-49	
gaaccc	cel-miR-799			
aagccu	cel-miR-798			
uucau	cel-miR-797			
uuggca	cel-miR-790	cbr-miR-790 ,cbr-miR-790	crm-miR-790 ,crm-miR-790	Cbre_Contig0_33
uaaagc	cel-miR-79 ,cel-miR-75	cbr-miR-79	crm-miR-79 ,crm-miR-75	Cbre_Contig15_2934 ,Cbre_Contig648_43351 ,Cbre_Contig0_58
auugau	cel-miR-789			
cgcuuc	cel-miR-788			
aaugcc	cel-miR-786 ,cel-miR-357	cbr-miR-786 ,cbr-miR-357 ,cbr-miR-357	crm-miR-786	Cbre_Contig968_46214 ,Cbre_Contig128_20149
ggcaca	cel-miR-784	cbr-miR-784	crm-miR-784	Cbre_Contig30_5134
ggaggc	cel-miR-78			
ucauca	cel-miR-77 ,cel-mir-4938	cbr-miR-77 ,cbr-miR-77	crm-miR-77 ,crm-miR-77 ,crm-miR-77	Cbre_Contig4_988
ucguug	cel-miR-76	cbr-miR-76	crm-miR-76	
				Cbre_Contig413_38342 ,Cbre_Contig114_18677 ,Cbre_Contig105_18314
ggcaag	cel-miR-72 ,cel-miR-73 ,cel-miR-74 ,cel-mir-cbr-miR-73b ,cbr-miR-74b ,cbr-miR-2225 266	cbr-miR-73 ,cbr-miR-74 ,cbr-miR-74	crm-miR-72 ,crm-miR-74a ,crm-miR-74b ,crm-miR-73 ,crm-miR-74a ,Crem_Contig259_14611	Cbre_Contig135_21054 ,Cbre_Contig0_60 ,Cbre_Contig0_66 ,Cbre_Contig0_64 ,Cbre_Contig0_62 ,Cbre_Contig45_6622
gaaaga	cel-mir-71	cbr-miR-71	crm-miR-2229 ,crm-miR-71 ,crm-miR-2229 ,Crem_Contig0_155 ,Crem_Contig0_133	
aaucg	cel-miR-70	cbr-miR-70	crm-miR-70	Cbre_Contig2104_48784
cacaac	cel-miR-67	cbr-miR-67	crm-miR-67	Cbre_Contig14_2880 ,Cbre_Contig230_27890 ,Cbre_Contig102_18130 ,Cbre_Contig274_31311 ,Cbre_Contig230_27906 ,Cbre_Contig274_31307 ,Cbre_Contig274_31317 ,Cbre_Contig230_27900 ,Cbre_Contig274_31313 ,Cbre_Contig230_27904 ,Cbre_Contig9_2017 ,Cbre_Contig274_31309 ,Cbre_Contig230_27908 ,Cbre_Contig274_31325 ,Cbre_Contig230_27892 ,Cbre_Contig274_31315 ,Cbre_Contig230_27898 ,Cbre_Contig230_27902 ,Cbre_Contig274_31319 ,Cbre_Contig274_31329 ,Cbre_Contig230_27884 ,Cbre_Contig230_27894 ,Cbre_Contig274_31335 ,Cbre_Contig274_31323 ,Cbre_Contig274_31331 ,Cbre_Contig274_31321 ,Cbre_Contig1461_47871 ,Cbre_Contig97_17989 ,Cbre_Contig144_22644 ,Cbre_Contig900_45817 ,Cbre_Contig144_22593 ,Cbre_Contig36_5838 ,Cbre_Contig519_41237
augaca	cel-miR-66 ,cel-miR-64 ,cel-miR-65 ,cel-miR-63 ,cel-mir-229	cbr-miR-64 ,cbr-miR-64b ,cbr-miR-2226 ,chrIII_17813	crm-miR-64c ,crm-miR-64c ,crm-miR-64a ,crm-miR-64e ,crm-miR-64b ,crm-miR-64d ,crm-miR-66 ,crm-miR-63 ,crm-miR-64a ,Crem_Contig41_2004	Cbre_Contig274_31323 ,Cbre_Contig274_31321 ,Cbre_Contig1461_47871 ,Cbre_Contig97_17989 ,Cbre_Contig144_22644 ,Cbre_Contig900_45817 ,Cbre_Contig144_22593 ,Cbre_Contig36_5838 ,Cbre_Contig519_41237
gacuag	cel-miR-61 ,cel-miR-45-5p ,cel-miR-44-5p ,cel-miR-247	cbr-miR-61 ,cbr-miR-44 ,cbr-miR-45 ,cbr-miR-45 ,cbr-miR-44 ,chrX_44245	crm-miR-61 ,crm-miR-45 ,crm-miR-44 ,crm-miR-247 ,crm-miR-44	Cbre_Contig900_45817 ,Cbre_Contig144_22593 ,Cbre_Contig36_5838 ,Cbre_Contig519_41237
auuaug	cel-miR-60	cbr-miR-60	crm-miR-60	
cgaauc	cel-miR-59		crm-miR-59	
accuug	cel-miR-57	cbr-miR-57	crm-miR-57 ,crm-miR-57	Cbre_Contig239_28959 ,Cbre_Contig239_28961
ggcggg	cel-miR-56			

				Cbre_Contig2_323 ,Cbre_Contig2_327 ,Cbre_Contig147_23510 ,Cbre_Contig318_33780 ,Cbre_Contig2_325 ,Cbre_Contig318_33778 ,Cbre_Contig147_23508
accggu	cel-miR-51 , cel-miR-52 , cel-miR-55 , cel-miR-54-5p , cel-miR-53	cbr-miR-55 , cbr-miR-56 , cbr-miR-54d , chrI_7721	crm-miR-55 , crm-miR-52 , crm-miR-52 , Crem_Contig43_28323 ,Crem_Contig20_16251 ,Crem_Contig1341_18236	
ugggua	cel-mir-4937			
uaggag	cel-mir-4926			
uucgaa	cel-mir-4925			
acggcg	cel-mir-4923b			
uaagga	cel-mir-4920			
ucuaca	cel-miR-4816			
ucaaua	cel-miR-4813	chrIII_15945		
agagcg	cel-mir-4812			
auaaca	cel-miR-4811			
gaguau	cel-mir-4810			
aauaca	cel-mir-4809			
acuuac	cel-mir-4806			
				Cbre_Contig123_19255 ,Cbre_Contig2554_49130 ,Cbre_Contig205_26310 ,Cbre_Contig91_17597 ,Cbre_Contig2_262 ,Cbre_Contig8_1984 ,Cbre_Contig123_19253 ,Cbre_Contig3523_49449 Cbre_Contig42_6373 ,Cbre_Contig13_2694
gaggua	cel-miR-48 , cel-let-7 , cel-miR-794 , cel-miR-795 , cel-miR-793 , cel-mir-84	cbr-miR-48 , cbr-let-7 , cbr-miR-84 , cbr-miR-241 , cbr-miR-241 , cbr-let-7 , chrIII_20196 , chrX_44365 , chrX_44367 , chrX_44369 , chrX_47036	crm-miR-48 , crm-let-7 , crm-miR-84 , crm-mir-241 , Crem_Contig0_99 ,Crem_Contig22_18360	
gucaug	cel-miR-46 , cel-miR-47	cbr-miR-46 , cbr-miR-47 , cbr-miR-47	crm-miR-47 , crm-miR-46	
gugguu	cel-miR-41-5p			
aucauc	cel-miR-392			Cbre_Contig17_3093
ugugac	cel-miR-360	cbr-miR-360		
cacugg	cel-miR-359	cbr-miR-359 , cbr-miR-359	Crem_Contig0_360 Crem_Contig13_6924	Cbre_Contig0_15
uuggua	cel-miR-358			
uuguuu	cel-miR-355	cbr-miR-355	crm-miR-355	Cbre_Contig478_39827 ,Cbre_Contig156_23737 Cbre_Contig28_4830 ,Cbre_Contig831_45132 ,Cbre_Contig831_45135 ,Cbre_Contig831_45136 ,Cbre_Contig28_4834 ,Cbre_Contig28_4828 ,Cbre_Contig831_45130 ,Cbre_Contig34_5470 ,Cbre_Contig34_5510 ,Cbre_Contig34_5514 ,Cbre_Contig34_5516 ,Cbre_Contig34_5498 ,Cbre_Contig34_5518 ,Cbre_Contig34_5517 ,Cbre_Contig34_5508 ,Cbre_Contig34_5476 ,Cbre_Contig34_5504 ,Cbre_Contig34_5506 ,Cbre_Contig34_5500 ,Cbre_Contig34_5499 ,Cbre_Contig34_5520 ,Cbre_Contig28_4832 ,Cbre_Contig831_45134 ,Cbre_Contig34_5490 ,Cbre_Contig34_5488 ,Cbre_Contig34_5512 ,Cbre_Contig34_5487 ,Cbre_Contig34_5511 ,Cbre_Contig34_5496 ,Cbre_Contig34_5480 ,Cbre_Contig34_5492 Cbre_Contig0_5
caccgg	cel-miR-35 , cel-miR-36 , cel-miR-37 , cel-miR-38 , cel-miR-39 , cel-miR-40 , cel-miR-41 , cel-miR-42	cbr-miR-36 , cbr-miR-36 , cbr-miR-35d , cbr-miR-35 , cbr-miR-40 , cbr-miR-41b , cbr-miR-35e , cbr-miR-39 , cbr-miR-42 , cbr-miR-35c , cbr-miR-35c , chrX_44633 , chrX_44629 , chrX_44631 , chrX_44623	crm-miR-40 , crm-miR-39 , crm-miR-39 , crm-miR-41 , crm-miR-35g , crm-miR-35f , crm-miR-38 , crm-miR-35e , crm-miR-35e , crm-miR-35c , crm-miR-35c , crm-miR-35c , crm-miR-35a , crm-miR-35d , crm-miR-35d , crm-miR-35a , crm-miR-35a , Crem_Contig93_7080 ,Crem_Contig93_7052 ,Crem_Contig93_7056 crm-miR-34 Crem_Contig15_9127	
cggcua	cel-miR-34	cbr-miR-34	crm-miR-34	
acagaa	cel-mir-2953	cbr-miR-254		
gcaaga	cel-mir-269			
aaucuc	cel-miR-259	cbr-miR-259	crm-miR-259	Cbre_Contig65_12894
guuuug	cel-mir-258-2			
aguauc	cel-mir-257			
aacuga	cel-miR-255	cbr-miR-255	Crem_Contig8_46069	
gcaaa	cel-miR-254			Cbre_Contig0_36
uaguag	cel-miR-253	cbr-miR-253		
uaagua	cel-miR-252 , cel-miR-251	cbr-miR-252 , cbr-miR-251	crm-miR-252	Cbre_Contig28_4742 ,Cbre_Contig529_41358 Cbre_Contig97_17991 ,Cbre_Contig1461_47873 ,Cbre_Contig1461_47874 ,Cbre_Contig15_2927 ,Cbre_Contig342_34839
aucaca	cel-miR-250 , cel-miR-2 , cel-miR-43	cbr-miR-250 , cbr-miR-43 , chrI_4726	crm-miR-2 , crm-miR-250 , crm-miR-43 , crm-miR-43	

cacagg uacacg	cel-miR-249 cel-miR-248	cbr-miR-249 cbr-miR-248	crm-miR-249 crm-miR-248	Cbre_Contig0_72 Cbre_Contig0_11 Cbre_Contig147_23516
uacaug	cel-miR-246	cbr-miR-246	crm-miR-246 ,crm-miR-246	,Cbre_Contig318_33782 Cbre_Contig480_40005 ,Cbre_Contig6_1451 ,Cbre_Contig179_24543 ,Cbre_Contig496_40526 Cbre_Contig18_3236
uugguc cuuugg aucucg ugcgua uugucu gaggau	cel-miR-245 cel-miR-244 cel-miR-243 cel-miR-242 cel-miR-241 cel-miR-240-5p	cbr-miR-245 cbr-miR-244 cbr-miR-242	crm-miR-245 crm-miR-244 crm-miR-242	 Cbre_Contig205_26286 ,Cbre_Contig91_17606 ,Cbre_Contig205_26284 ,Cbre_Contig91_17604 ,Cbre_Contig21_3564 ,Cbre_Contig7_1928 ,Cbre_Contig21_3587 Cbre_Contig36_5722
uuguac	cel-miR-238 ,cel-miR-239a ,cel-miR-239b	cbr-miR-238 ,cbr-miR-239a ,cbr-miR-239b ,cbr-mir-2223	crm-miR-238 ,crm-miR-239a ,crm-miR-239b ,crm-miR-238 ,Crem_Contig22_18355	,Cbre_Contig91_17604 ,Cbre_Contig21_3564 ,Cbre_Contig7_1928 ,Cbre_Contig21_3587 Cbre_Contig36_5722
ccuga	cel-miR-237 ,cel-lin-4	cbr-miR-237 ,cbr-lin-4 ,chrX_46070	crm-miR-237 ,crm-lin-4 ,crm-miR-2231 ,crm-miR-2231	,Cbre_Contig639_43192 ,Cbre_Contig108_18477 Cbre_Contig66_12988
aauacu	cel-miR-236	cbr-miR-236	crm-miR-236	,Cbre_Contig66_12986 Cbre_Contig81_16154
auugca	cel-miR-235	cbr-miR-235b ,cbr-miR-235	crm-miR-235	,Cbre_Contig98_18027 Cbre_Contig659_43378
uauugc aaaugc aagcuc cuuggu	cel-miR-234 cel-miR-232-5p cel-miR-231 ,cel-miR-787 cel-miR-230	cbr-miR-234 cbr-miR-232 ,cbr-miR-232 cbr-miR-231 ,cbr-miR-787 cbr-miR-230	Crem_Contig218_13813 crm-miR-357 ,crm-miR-232 ,crm-miR-232 crm-miR-231 ,crm-miR-787	,Cbre_Contig261_30363 Cbre_Contig147_23511 Cbre_Contig0_1 ,Cbre_Contig7_1715
auggca	cel-miR-228	cbr-miR-228	crm-miR-228	Cbre_Contig67_13929 ,Cbre_Contig521_41290 ,Cbre_Contig101_18107 Cbre_Contig34_5423 ,Cbre_Contig0_7 ,Cbre_Contig688_43566 ,Cbre_Contig688_43561 ,Cbre_Contig129_20513 ,Cbre_Contig7_1926 ,Cbre_Contig0_56
gagauc cacauu agcugu ggcaga aaaguc agugua cagcga cuagga agcgaa agcgau aaccuu	cel-miR-227 ,cel-miR-58 ,cel-miR-82 ,cel-miR-81 ,cel-miR-2209a ,cel-mir-1834 cel-mir-2216 cel-mir-2213 cel-miR-2212 cel-miR-2210 cel-miR-2208b-5p cel-miR-1832 cel-miR-1830-5p cel-mir-1829c cel-mir-1829b cel-mir-1829a	cbr-miR-80 ,cbr-miR-58 ,cbr-miR-81 ,cbr-miR-82 ,cbr-miR-1834 ,cbr-miR-81 cbr-mir-72	crm-miR-80 ,crm-miR-58a ,crm-miR-81 ,crm-miR-82 ,Crem_Contig279_39761 ,Crem_Contig469_27904	,Cbre_Contig181_24930 ,Cbre_Contig955_46143 ,Cbre_Contig205_26306 ,Cbre_Contig91_17609 ,Cbre_Contig91_17611 ,Cbre_Contig205_26304
ggcagu gagcug uuugau gugguc agccaa	cel-miR-1824 ,cel-mir-4933 cel-miR-1822 cel-miR-1820 cel-mir-1818 cel-miR-1817	cbr-miR-2227 cbr-miR-1817	crm-miR-2227 ,Crem_Contig22_18438 Crem_Contig129_48372 Crem_Contig4_40404	
aaggca agauca agugag gagaga ggaaug uuugua ggauc aaccua cuagaa guugca cauccg aaccag aaaccg gcugca ggaauu gacauu	cel-miR-124 cel-miR-1022 cel-mir-1021 cel-miR-1018 cel-miR-1 ,cel-miR-1819 ,cel-mir-796 cel-lsy-6	cbr-miR-124 ,chrX_45684 ,chrX_45686 cbr-miR-1 ,chrX_45657 cbr-lsy-6 chrX_46964 chrX_46762 ,chrX_44345 chrX_45336 chrX_45288 chrX_44729 ,chrX_45303 chrX_44637 chrX_44415 chrX_44270 chrX_43199 chrX_43181	crm-miR-124 ,Crem_Contig45_42204 crm-miR-1 crm-miR-2230 Crem_Contig93_7050 Crem_Contig25_22141 Crem_Contig0_131 ,Crem_Contig0_127 ,Crem_Contig0_125 ,Crem_Contig69_27332 ,Crem_Contig69_27295	Cbre_Contig161_23858 ,Cbre_Contig612_42535 Cbre_Contig8_2004 Cbre_Contig89_17526 Cbre_Contig34_5466
gaggac ggucuu		chrV_41016 chrV_38586		Cbre_Contig26_4569 ,Cbre_Contig570_41925

aucggu	chrIV_28673		
ucgaaa	chrIV_22450		
gagaua	chrI_4223 ,chrII_11571		
acgugg	cbr-miR-789		
aauggg	cbr-miR-788		
cuaccg	cbr-miR-65		
guacuu	cbr-miR-54c ,cbr-miR-54c		
guaauc	cbr-miR-54a		
guacau	cbr-miR-52		
ucaucg	cbr-miR-392	Crem_Contig31_29881	
ccgggu	cbr-miR-38		
gccaa	cbr-miR-35b		
aaguau	cbr-mir-353		
ugaggu	cbr-miR-2224		
cucggu	cbr-mir-2214		
agcugc	cbr-miR-1822	Crem_Contig6_44020	Cbre_Contig376_35988
ccgcuu		crm-miR-788	,Cbre_Contig36_5745
gccua		crm-miR-58a	
uuguuc		crm-miR-356	Cbre_Contig7_1846
auuagu		crm-miR-230	
cuauuu		crm-miR-2228	
guugag		Crem_Contig86_44272	
gauuu		Crem_Contig84_41012	
cuacca		Crem_Contig56_10065	
ggauau		,Crem_Contig119_39268	
		Crem_Contig43_28320	
		Crem_Contig423_20415	
		,Crem_Contig423_20421	
		,Crem_Contig494_8902	
gggauc		,Crem_Contig132_6364	Cbre_Contig57_9554
		Crem_Contig33_33153	
		,Crem_Contig0_231	
uaaguu		Crem_Contig24_20679	
acauac		Crem_Contig24_20677	
acacgu		Crem_Contig22_18358	
acguuu		Crem_Contig16_9818	
guaauu		Crem_Contig16_9816	
		,Crem_Contig86_44273	
gagauu		Crem_Contig114_35063	
ugaaca		Crem_Contig105_22437	Cbre_Contig41_6372
auacuu		Crem_Contig0_226	
uacugg		Crem_Contig0_137	
ugggaa			
aaaaca			Cbre_Contig31_5173
augccg			Cbre_Contig68_13997
auugua			Cbre_Contig308_33295
caacag			Cbre_Contig21_3575
caaccg			Cbre_Contig21_3579
caauuc			Cbre_Contig77_15952
cauccu			Cbre_Contig30_5137
ccugcc			Cbre_Contig30_5135
cucuaa			Cbre_Contig49_6925
gaggug			Cbre_Contig205_26293
			Cbre_Contig205_26290
gaucua			,Cbre_Contig91_17623
ggaccu			Cbre_Contig154_23694
ggaggu			Cbre_Contig205_26287
gggauu			Cbre_Contig34_5422
guacaa			Cbre_Contig68_13995
			Cbre_Contig205_26301
guaguc			,Cbre_Contig91_17633
gugaug			Cbre_Contig102_18128
			Cbre_Contig305_33275
			,Cbre_Contig1313_47422
uaaguc			Cbre_Contig23_4305
uacacu			Cbre_Contig81_16151
uagauc			Cbre_Contig0_31
uauuag			Cbre_Contig68_14000
ugauau			Cbre_Contig91_17601
ugccca			Cbre_Contig94_17788
uuucac			