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Supplemental Material to:

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Continuing analysis of microRNA origins: Formation from transposable element insertions and noncoding RNA mutations

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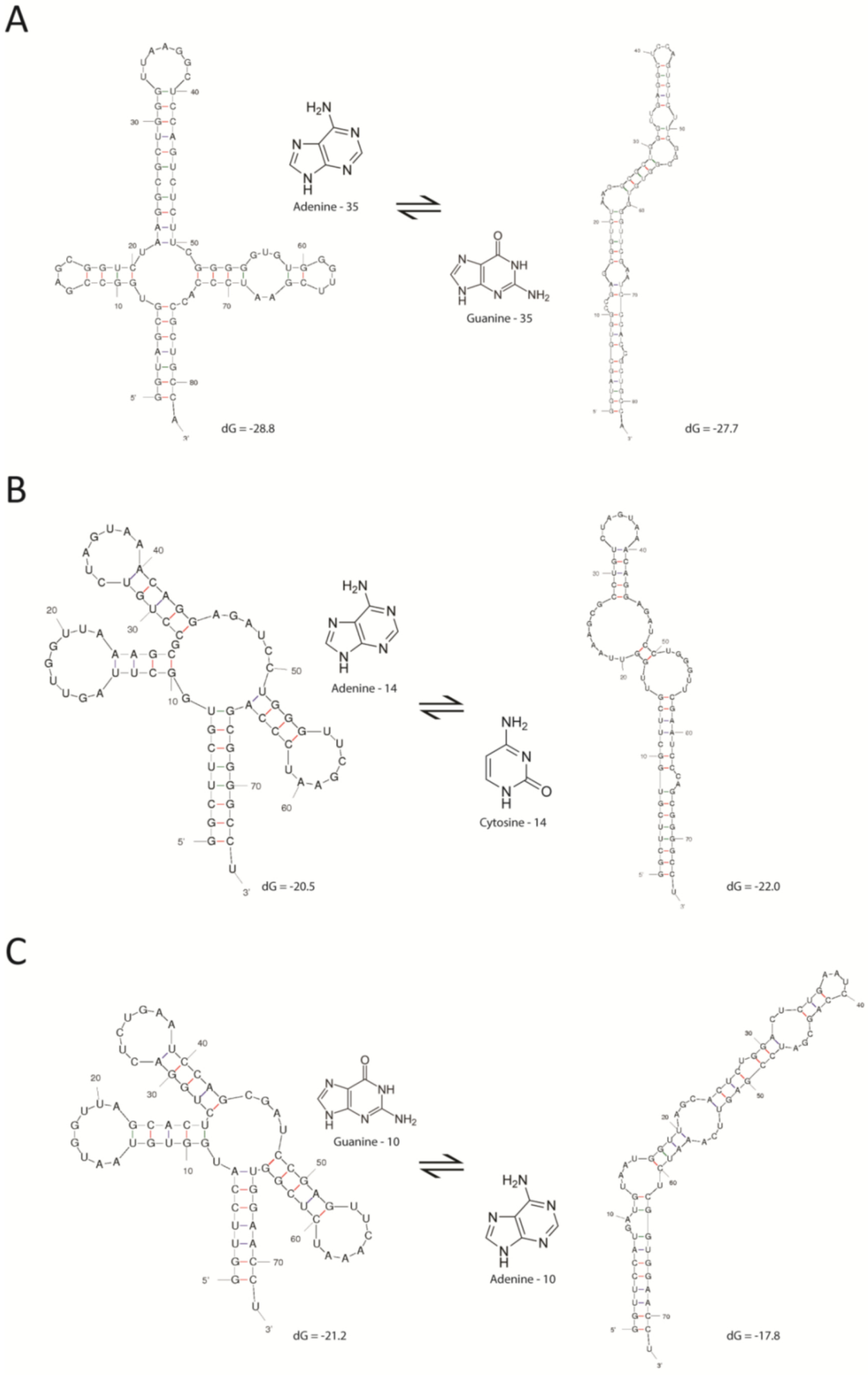

Supplemental Figure 1. Formation of a miR through tRNA mutation. Structural diagrams illustrating the potential effects of a single point mutation to tRNA secondary structure. The most thermodynamically stable conformations of two tRNA sequences are shown. The two sequences resulting in the distinct structural conformations are identical except the sequence on the right has been altered at a single position as indicated. Secondary structures and thermodynamic stabilities were computed using Mfold.35 (A) Danio rerio tRNALeu (AAG) located on chromosome 4 at 30349077-30348996 bp (B) Equus caballus tRNAThr (AGT) located on chromosome 20 at 26012749-26012822 bp (C) Felis catus tRNAGln (CTG) located on scaffold 151171 at 153624-153695 bp.

Supplemental Table 1. Following the construction of databases containing all currently annotated pre-miRs (www.mirbase.org) and miR genomic loci (pre-miR + 500 bp both 5' and 3'), we screened all database sequences against the publically available RFAM sequence database, the repetitive element repository (Repbase), and the tRNAscan- SE Genomic tRNA database. Significant alignments were strictly defined as ≥80% identity to at least 40bp or ≥70% identity to at least 50bp of an individual pre-miR. For clarity, only alignments to pre-miRs are shown. microRNA, miRBase identifier; Hit, aligning sequence; % ID, percent identity of alignment; bp, length of alignment; From(m), alignment start position in pre-miR; To(m), alignment end in pre-miR.

	microRNA	Hit	%ID	bp	From(m)	To (m)
	tur-mir-1_mi0019395_Tetranychus_urticae_miR-1_stem-loop	piggyBac-1_DW#piggyBac#Drosophila	74.55	55	13	62
	ccr-mir-101a_mi0023304_Cyprinus	ATCOPIA44_I#Copia#Arabidopsis	77.36	53	19	71
	tgu-mir-10a_mi0016248_Taeniopygia_guttata_miR-10a_stem-loop	Gorilla_gorilla_gorilla_chr14.trna19-TyrGTA	76.92	52	28	79
	sha-mir-10b_mi0019626_Sarcophilus_harrisii_miR-10b_stem-loop	REP-6_CQ#Repetitive	80	40	101	140
	ssp-MIR1128_mi0018189_Saccharum_ssp._miR1128_stem-loop	STOWAWAY12_SB#DNA	88.37	43	194	236
	tca-mir-1175_mi0016357_Tribolium_castaneum_miR-1175_stem-loop	Nimb-5_DR#Nimb#Danio	80	40	16	54
	sma-mir-124_mi0021818_Schistosoma_mansoni_miR-124_stem-loop	Gypsy-54_AA-I#Gypsy#Aedes	80	40	30	67
	bta-mir-1246_mi0021112_Bos	RF00004;U2;AAGW02026730.1/6992-7181	97.67	43	5	47
	ggo-mir-1249_mi0020794_Gorilla	LINE2B#Repetitive	88.14	59	55	112
	mml-mir-1249_mi0020872_Macaca	LINE2B#Repetitive	88.14	59	55	112
	mmu-mir-1249_mi0004132_Mus	LINE2B#Repetitive	87.93	58	42	98
	rno-mir-1249_mi0015470_Rattus	LINE2B#Repetitive	89.23	65	53	116
	ssc-mir-1249-1_mi0022158_Sus_scrofa_miR-1249-1_stem-loop	L2B#CR1#Eutheria	85.71	49	35	82
	ssc-mir-1249-2_mi0022159_Sus_scrofa_miR-1249-2_stem-loop	L2B#CR1#Eutheria	85.71	49	35	82
	ptr-mir-1252_mi0020586_Pan_troglodytes_miR-1252_stem-loop	ERV1-3-I_DR#ERV1#Danio	80	40	39	78
	hsa-mir-1254-2_mi0016747_Homo_sapiens_miR-1254-2_stem-loop	RF00017;Metazoa_SRP;ABGA01280524.1/775-1060	93.02	43	21	63
	mml-mir-1255b_[Source:miRBase;Acc:MI0020890]|mml-mir-1255b	RF00100;7SK;CAEC01582869.1/1772-2107	77.32	97	563	659
	bta-mir-1260b_mi0021113_Bos	Ag-Jock-1#Jockey#Anopheles	78	50	30	79
	ggo-mir-1260b_mi0020787_Gorilla	Gypsy-50_GA-LTR#Gypsy#Gasterosteus	77.27	66	43	107
	mml-mir-1260b_mi0020867_Macaca	Gypsy-50_GA-LTR#Gypsy#Gasterosteus	77.27	66	43	107
	ppy-mir-1260b_mi0020918_Pongo	Gypsy-50_GA-LTR#Gypsy#Gasterosteus	75.76	66	43	107
	ptr-mir-1260b_mi0020613_Pan_troglodytes_miR-1260b_stem-loop	Gypsy-50_GA-LTR#Gypsy#Gasterosteus	77.27	66	43	107
	ggo-mir-1264_mi0020834_Gorilla	L2A#CR1#Eutheria	86.67	45	16	60
	mmu-mir-1264_mi0004130_Mus	MIR2#Repetitive	84	50	1	50
	hsa-mir-1268b_mi0016748_Homo_sapiens_miR-1268b_stem-loop	RF00017;Metazoa_SRP;ABGA01378105.1/11343-11069	86.36	44	7	50
	hsa-mir-1269b_mi0016888_Homo_sapiens_miR-1269b_stem-loop	MLT2B2#Inerspersed	81.97	61	11	71
	ggo-mir-127_mi0020641_Gorilla	RF00017;Metazoa_SRP;AGCE01083710.1/22311-22608	81.25	48	23	70
	cgr-mir-1271_mi0020389_Cricetulus	MIR2#Repetitive	80.77	52	3	54
	ggo-mir-1271_mi0020739_Gorilla	L2A#CR1#Eutheria	85.37	41	45	85
	mml-mir-1271_mi0020863_Macaca	MIR2#Repetitive	81.67	60	1	60
	ssc-mir-1271_mi0015922_Sus_scrofa_miR-1271_stem-loop	RF00409;SNORA7;AAPN01158427.1/24823-24668	87.5	40	1	40
	ggo-mir-1273c_mi0020837_Gorilla	RF00017;Metazoa_SRP;ABGA01071783.1/9-313	94.23	52	43	94

	hsa-mir-1273e_mi0016059_Homo_sapiens_miR-1273e_stem-loop	RF00017;Metazoa_SRP;AACZ03107475.1/16257-16006	92.39	92	1	92
	ppy-mir-1273e_mi0020933_Pongo	RF00017;Metazoa_SRP;CABD02172295.1/545-844	90.91	77	9	85
	hsa-mir-1273f_mi0018002_Homo_sapiens_miR-1273f_stem-loop	RF00017;Metazoa_SRP;ADFV01003263.1/9396-9696	90.48	63	3	65
	hsa-mir-1273g_mi0018003_Homo_sapiens_miR-1273g_stem-loop	RF00017;Metazoa_SRP;CABD02393273.1/1879-1583	88	100	1	100
	bta-mir-1277_mi0021114_Bos	CR1-18_HM#CR1#Hydra	82.14	56	10	65
	ggo-mir-1277_mi0020722_Gorilla	CR1-18_HM#CR1#Hydra	83.93	56	34	89
	mml-mir-1277_mi0020865_Macaca	CR1-18_HM#CR1#Hydra	83.93	56	34	89
	sha-mir-128_mi0019625_Sarcophilus_harrisii_miR-128_stem-loop	DNA-TTAA-4_BF	80	45	14	56
	cgr-mir-1285_mi0020390_Cricetulus	RF00017;Metazoa_SRP;AFTD01108184.1/46710-46973	100	90	1	90
	ggo-mir-1291_mi0020755_Gorilla	RF00410;SNORA2;CAEC01039678.1/1523-1387	96.77	93	20	112
	tur-mir-12b_mi0019367_Tetranychus_urticae_miR-12b_stem-loop	Gypsy-82_MLP-I#Gypsy#Melampsora	73.58	53	31	83
	mml-mir-1304_mi0020887_Macaca	RF00017;Metazoa_SRP;ABGA01128838.1/51-317	88.1	42	50	91
	sha-mir-130a_mi0019659_Sarcophilus_harrisii_miR-130a_stem-loop	RF00409;SNORA7;AAPN01024517.1/4965-5091	81.25	48	10	56
	sha-mir-130b_mi0019642_Sarcophilus_harrisii_miR-130b_stem-loop	L1-2A_Cpo#L1#Cavia	77.78	54	1	51
	mmu-mir-130c_mi0021917_Mus	Bos_taurus_chr18.trna3718-TrpCCA	80.95	42	25	64
	han-MIR1310_mi0022262_Helianthus	LSU-rRNA_Ath	93.59	78	1	78
	pde-MIR1310_mi0022111_Pinus	LSU-rRNA_Ath	94.64	56	1	56
	osa-MIR1319b_mi0019843_Oryza	RF01705;Flavo-1;AM398681.1/1248668-1248760	78	50	33	81
	pma-mir-133a_mi0017069_Petromyzon	RF00005;tRNA;CP002304.1/1447926-1447854	81.4	43	39	77
	sha-mir-133a_mi0019610_Sarcophilus_harrisii_miR-133a_stem-loop	CACTA-1_AA#EnSpm#Aedes	80	40	4	43
	ENSG00000251862|microRNA_1343_human	RF00222;IRES_Bag1;ABRQ01145200.1/2918-2549	80.85	47	558	604
	cgr-mir-143_mi0020405_Cricetulus	RF00017;Metazoa_SRP;ABSL01251718.1/4-281	82.5	40	2	40
	tgu-mir-1460_mi0022175_Taeniopygia_guttata_miR-1460_stem-loop	Tx1-8_SK#Tx1#Saccoglossus	81.4	43	3	42
	gma-MIR1507c_mi0017854_Glycine	Tx1-1_ACar#Tx1#Anolis	82.93	41	28	67
	cgr-mir-151_mi0020412_Cricetulus	MIR2#Repetitive	80.43	46	29	73
	csi-MIR1515_mi0016731_Citrus	hAT-11N_VV#hAT#Vitis	72.06	68	64	126
	ggo-mir-151a_mi0020654_Gorilla	MIR2#Repetitive	80.85	47	53	98
	hsa-mir-151b_mi0003772_Homo_sapiens_miR-151b_stem-loop	LINE2B#Repetitive	87.5	40	40	79
	ppy-mir-151b_mi0020942_Pongo	LINE2B#Repetitive	85	40	49	88
	gma-MIR1520n_mi0016536_Glycine	BLOOD!#LTR	81.4	43	26	68
	sha-mir-1546_mi0019622_Sarcophilus_harrisii_miR-1546_stem-loop	LINE1J_MT#L1#Medicago	80.49	41	23	62
	ssp-MIR156_mi0018191_Saccharum_ssp._miR156_stem-loop	TE7-1_FV#Transposable	78.95	57	113	169
	tae-MIR156_mi0016450_Triticum_aestivum_miR156_stem-loop	LTR9B_EC#Endogenous	87.5	40	3	42
	han-MIR156a_mi0022228_Helianthus	SZ-60#LTR	82.5	40	60	98
	gma-MIR156ab_mi0021681_Glycine	Penelope-4_NV#Penelope#Nematostella	82.5	40	133	171
	cme-MIR156b_mi0023235_Cucumis	ERV2-1N-EC_I#ERV2#Equus	83.33	48	43	90
	tcc-MIR156b_mi0017454_Theobroma_cacao_miR156b_stem-loop	hAT-N36_DR#hAT#Danio	83.67	49	81	129
	vun-MIR156b_mi0019566_Vigna_unguiculata_miR156b_stem-loop	ATHILA5_LTR#Gypsy#Arabidopsis	80.95	42	25	66
	cca-MIR156c_mi0021066_Cynara	RF00004;U2;AAGW02062380.1/41541-41689	82.5	40	55	93
	tcc-MIR156c_mi0017455_Theobroma_cacao_miR156c_stem-loop	TUBE2#SINE2/tRNA#Tupaia	80	40	1	40
	aly-MIR156d_mi0014505_Arabidopsis	Harbinger-5_XT#Harbinger#Xenopus	76.79	56	56	110

	aly-MIR156e_mi0014506_Arabidopsis	TUB1#SINE#Tupaia	80.95	42	106	147
	cme-MIR156e_mi0023260_Cucumis	L1-27_ACar#L1#Anolis	79.25	53	50	99
	tcc-MIR156e_mi0017457_Theobroma_cacao_miR156e_stem-loop	SHACOP14_I_MT#Copia#Medicago	80.95	42	65	106
	aly-MIR156f_mi0014507_Arabidopsis	RF00100;7SK;AANN01807336.1/5474-5837	75.34	73	141	211
	nta-MIR156g_mi0021325_Nicotiana	Gypsy-15_GA-I#Gypsy#Gasterosteus	81.25	48	34	81
	cme-MIR156h_mi0023262_Cucumis	Ginger1-2_AP#Ginger1#Acyrthosiphon	80.49	41	60	98
	mtr-MIR156j_mi0018375_Medicago	RF00100;7SK;AFTD01089417.1/20587-20303	80.95	42	8	46
	mdm-MIR156l_mi0022982_Malus	HERVFH19I#gag#Homo	84.62	52	4	55
	ptc-MIR156l_mi0022040_Populus	RF00004;U2;AACN010449088.1/1009-1184	80	40	54	93
	aly-MIR157c_mi0014512_Arabidopsis	RF00004;U2;ACTA01169195.1/11731-11940	88.64	44	149	192
	bdi-MIR159_mi0018117_Brachypodium	LTR18F_ML#ERV1#Myotis	90.48	42	193	233
	aly-MIR159a_mi0014515_Arabidopsis	ATHAT9#hAT#Arabidopsis	82.5	40	87	124
	cme-MIR159a_mi0023264_Cucumis	CR1-78_HM#CR1#Hydra	85	40	78	115
	aly-MIR159c_mi0014517_Arabidopsis	PIF_Harbinger-1_Mlaricis#Harbinger#Melampsora	90.7	43	152	194
	aly-MIR160a_mi0014521_Arabidopsis	CR1-18_HM#CR1#Hydra	87.5	40	5	43
	tgu-mir-1641_mi0022177_Taeniopygia_guttata_miR-1641_stem-loop	Eulor5A#Transposable	86	50	41	90
	bdi-MIR164a_mi0018118_Brachypodium	SSU-rRNA_Giardia	82.98	47	74	120
	aly-MIR164b_mi0014528_Arabidopsis	GYPSY68-I_AG#Gypsy#Anopheles	72.31	65	39	103
	bdi-MIR164f_mi0018216_Brachypodium	SSU-rRNA_Giardia	82.98	47	55	101
	mdm-MIR164f_mi0023016_Malus	TE-2_XT#Transposable	80.49	41	54	94
	hpe-MIR166a_mi0022244_Helianthus	TEC2#Mariner/Tc1#Moneuplotes	80	40	92	131
	mdm-MIR166a_mi0023017_Malus	Z-REP#Satellite#Gallus	81.82	44	66	109
	ssl-MIR166a_mi0019343_Salvia_sclarea_miR166a_stem-loop	Gypsy-120_GM-LTR#Gypsy#Glycine	80	40	35	73
	tcc-MIR166b_mi0017468_Theobroma_cacao_miR166b_stem-loop	Helitron-N2_PTr#Helitron#Populus	80	40	56	95
	tcc-MIR166d_mi0017470_Theobroma_cacao_miR166d_stem-loop	Crack-7_HM#Crack#Hydra	82.5	40	15	54
	aly-MIR166e_mi0014536_Arabidopsis	Gypsy1-I_Dmoj#Gypsy#Drosophila	82	50	66	113
	bna-MIR166e_mi0020273_Brassica	DIRS-1_SP#DIRS#Strongylocentrotus	82.93	41	37	77
	cme-MIR166e_mi0023283_Cucumis	L1-57_ACar#L1#Anolis	77.05	61	86	145
	nta-MIR166e_mi0021343_Nicotiana	CR1-8_HM#CR1#Hydra	73.08	52	69	120
	aly-MIR166f_mi0014537_Arabidopsis	gambiae	80.49	41	43	78
	bna-MIR166f_mi0020272_Brassica	RF00100;7SK;ABRO01062249.1/286-10	77.61	67	30	94
	mdm-MIR166g_mi0023023_Malus	hAT-2_DR#hAT#Danio	83.67	49	64	111
	cme-MIR166h_mi0023212_Cucumis	RF00028;Intron_gpI;AY756924.1/4-403	82.22	45	31	75
	nta-MIR166h_mi0021346_Nicotiana	CR1-40_HM#CR1#Hydra	75	56	55	110
	gma-MIR166i_mi0018660_Glycine	Gypsy-36_Mad-I#Gypsy#Malus	76.67	60	19	78
	gma-MIR166q_mi0021693_Glycine	ATHPOGON3#Mariner/Tc1#Arabidopsis	82.22	45	72	116
	gma-MIR166r_mi0021694_Glycine	hAT-N12_AP#hAT#Acyrthosiphon	82.5	40	80	119
	cca-MIR167_mi0021070_Cynara	Novosib-6_CR#Novosib#Chlamydomonas	72.65	117	48	162
	nta-MIR167a_mi0021347_Nicotiana	RF00406;SNORA42;ABRO01037156.1/1418-1286	82.5	40	189	228
	bdi-MIR167b_mi0018091_Brachypodium	Canis_familiaris_chr36.trna233-LysCTT	82.93	41	114	153
	mtr-MIR167b_mi0019092_Medicago	DNA8-50_AP#DNA	72.97	74	70	141

	ssp-MIR167b_mi0018193_Saccharum_ssp._miR167b_stem-loop	TONT2-I_PV#Copia#Phaseolus	78	50	22	70
	cme-MIR167c_mi0023280_Cucumis	RF02194;HPnc0260;AACY020385536.1/145-298	85	40	23	61
	csi-MIR167c_mi0016696_Citrus	EnSpm-3_VV#EnSpm#Vitis	76.27	59	48	103
	tcc-MIR167c_mi0017473_Theobroma_cacao_miR167c_stem-loop	ERV54-EC_I#ERV1#Equus	82.5	40	33	71
	aly-MIR167d_mi0014542_Arabidopsis	CR1-18_HM#CR1#Hydra	72.83	92	181	268
	cme-MIR167d_mi0023267_Cucumis	CR1-38_HM#CR1#Hydra	81.63	49	56	104
	cme-MIR167e_mi0023281_Cucumis	LIN7_SM#Non-LTR	75.76	66	47	106
	mdm-MIR167f_mi0023031_Malus	TE2-1_CR#Transposable	78	50	192	238
	bdi-MIR168_mi0018098_Brachypodium	ERIKA1_TM_LTR#target	73.44	64	8	71
	cme-MIR168_mi0018177_Cucumis	DIRS-9A_XT#DIRS#Xenopus	74.63	67	72	131
	nta-MIR168a_mi0021352_Nicotiana	CR1-3_AG#AP	80	40	108	145
	nta-MIR168d_mi0021355_Nicotiana	HAL1#HAL1#Eutheria	71.7	53	124	174
	nta-MIR168e_mi0021356_Nicotiana	SINEC2A1_CF#SINE#Canis	80	40	236	275
	far-MIR169_mi0016612_Festuca	RF00100;7SK;AANN01813378.1/2781-2455	75.76	66	25	85
	aly-MIR169a_mi0014545_Arabidopsis	Gypsy-40_Mad-I#Gypsy#Malus	76.54	81	129	208
	tcc-MIR169b_mi0017476_Theobroma_cacao_miR169b_stem-loop	L1_AC_16#L2#Anolis	80.49	41	97	137
	aly-MIR169c_mi0014547_Arabidopsis	RF00017;Metazoa_SRP;ACFV01110995.1/133-479	82.5	40	114	153
	gma-MIR169f_mi0017836_Glycine	RF01853;mtDNA_ssA;ABGA01016443.1/21420-21322	93.48	46	76	120
	tcc-MIR169f_mi0017480_Theobroma_cacao_miR169f_stem-loop	EnSpm-2_ADi#EnSpm#Acropora	80.95	42	42	83
	gma-MIR169g_mi0017837_Glycine	RF00028;Intron_gpI;AY150342.1/5-318	82.61	46	35	79
	cme-MIR169h_mi0023218_Cucumis	L1-4_DR#L1	82.93	41	43	82
	tcc-MIR169k_mi0017485_Theobroma_cacao_miR169k_stem-loop	DM297_I#Gypsy#Drosophila	80	40	69	107
	gma-MIR169m_mi0018665_Glycine	Gypsy13-VV_I#Gypsy#Vitis	80.95	42	45	86
	tcc-MIR169m_mi0017487_Theobroma_cacao_miR169m_stem-loop	MuDi_MT#MuDR#Medicago	80.95	42	62	101
	ccr-mir-16b_mi0023340_Cyprinus	RF00026;U6;AGTP01002018.1/29854-29748	82.61	46	37	78
	ccr-mir-16c_mi0023341_Cyprinus	RF00026;U6;AGTP01002018.1/29854-29748	80.43	46	37	78
	nta-MIR171c_mi0021378_Nicotiana	RF00100;7SK;AFSB01081499.1/35813-35518	80.49	41	25	62
	gma-MIR171i_mi0017907_Glycine	Gypsy-28_GA-I#Gypsy#Gasterosteus	82.93	41	88	127
	aau-MIR172_mi0018980_Acacia	LTR18F_ML#ERV1#Myotis	87.8	41	75	113
	ata-MIR172_mi0016462_Aegilops	L1-55_XT#Tx1#Xenopus	100	42	97	138
	cme-MIR172a_mi0023285_Cucumis	TDD4#DNA	80.49	41	54	94
	nta-MIR172b_mi0021380_Nicotiana	RF00012;U3;BACK01028739.1/15209-15418	80.95	42	3	41
	aly-MIR172c_mi0014565_Arabidopsis	L1-38_XT#L1#Xenopus	74.55	55	76	130
	cme-MIR172d_mi0023231_Cucumis	L1-37_XT#L1#Xenopus	78.85	52	50	101
	tcc-MIR172d_mi0017500_Theobroma_cacao_miR172d_stem-loop	P-11_HM#P#Hydra	82	50	29	76
	nta-MIR172e_mi0021383_Nicotiana	RF00026;U6;AAKN02010750.1/6739-6845	86.96	46	152	197
	tcc-MIR172e_mi0017501_Theobroma_cacao_miR172e_stem-loop	L1-37_ACar#L1#Anolis	87.5	40	79	116
	cme-MIR172f_mi0023203_Cucumis	RF00017;Metazoa_SRP;ABSL01170666.1/396-82	74.68	79	60	136
	nta-MIR172f_mi0021384_Nicotiana	RF00026;U6;AAKN02010750.1/6739-6845	86.96	46	67	112
	nta-MIR172g_mi0021385_Nicotiana	RF00012;U3;BACK01028739.1/15209-15418	80.95	42	3	41
	gma-MIR172i_mi0018670_Glycine	RF00001;5S_rRNA;CABZ01002141.1/31112-30994	83.33	42	57	97

	nta-MIR172j_mi0021388_Nicotiana	LIN7_SM#Non-LTR	78.85	52	107	157
	bfl-mir-182c_mi0017661_Branchiostoma	RF00001;5S_rRNA;AFSP01032747.1/1431-1318	75	60	37	95
	cgr-mir-1839_mi0020426_Cricetulus	RF00426;SCARNA15;ABDC01642996.1/97-188	98.57	70	1	70
	rno-mir-1839_mi0021533_Rattus	RF00426;SCARNA15;ABDC01642996.1/97-188	100	64	1	64
	cgr-mir-1843_mi0020428_Cricetulus	RF00565;SCARNA3;AFTD01003630.1/13914-14052	100	72	1	72
	rno-mir-1843_mi0021535_Rattus	RF00565;SCARNA3;AFTD01003630.1/13914-14052	94.52	73	5	77
	mmu-mir-1843a_mi0004155_Mus	RF00565;SCARNA3;AFTD01003630.1/13914-14052	93.75	64	1	64
	mmu-mir-1843b_mi0016971_Mus	RF00565;SCARNA3;AAHX01076216.1/3447-3308	98.39	62	2	63
	dre-mir-187-2_mi0019583_Danio	RF00029;Intron_gpII;EU074107.1/826-898	80.49	41	23	62
	sha-mir-190_mi0019595_Sarcophilus_harrisii_miR-190_stem-loop	EnSpm3_SB#EnSpm#Sorghum	81.63	49	29	75
	tur-mir-190_mi0019389_Tetranychus_urticae_miR-190_stem-loop	BEL-22_DAn-I#BEL#Drosophila	85	40	7	44
	cgr-mir-1903_mi0020435_Cricetulus	RF00005;tRNA;AAHX01000286.1/15293-15364	91.67	48	17	64
	cgr-mir-190a_mi0020434_Cricetulus	MuDR-5_VV#MuDR#Vitis	80	40	16	55
	ssc-mir-190a_mi0022136_Sus_scrofa_miR-190a_stem-loop	EnSpm3_SB#EnSpm#Sorghum	81.63	49	9	55
	tgu-mir-192_mi0016247_Taeniopygia_guttata_miR-192_stem-loop	CR1-8_DR#CR1#Danio	82.93	41	46	84
	cgr-mir-1949_mi0020441_Cricetulus	RF00090;SNORA74;AEYP01016686.1/19606-19466	94.81	77	2	77
	rno-mir-1949_mi0015441_Rattus	RF00090;SNORA74;AEYP01016686.1/19606-19466	95.29	85	1	85
	mmu-mir-1957b_mi0021929_Mus	RF00005;tRNA;AC134578.5/115049-115119	78.57	56	36	91
	ola-mir-199a-3_mi0019485_Oryzias	RF00100;7SK;ACBE01350530.1/887-1205	78.43	51	3	52
	pma-mir-19c_mi0017021_Petromyzon	RF00169;Bacteria_small_SRP;CP002456.1/264251-264154	76	50	18	66
	sko-mir-2007_mi0017559_Saccoglossus_kowalevskii_miR-2007_stem-loop	Copia-7_DPu-I#Copia#Daphnia	81.4	43	48	89
	sha-mir-202_mi0019606_Sarcophilus_harrisii_miR-202_stem-loop	DNA9-6_STu#DNA	85.37	41	101	140
	aly-MIR2111b_mi0014631_Arabidopsis	UCON6#Transposable	76.92	52	65	116
	rno-mir-218b_mi0015428_Rattus	L1C_Mim#L1#Microcebus	80	40	58	97
	dre-mir-2190-2_mi0019586_Danio	Atlantys-2-I_OS#Gypsy#Oryza	75.93	54	17	68
	dre-mir-2190-3_mi0019587_Danio	Atlantys-2-I_OS#Gypsy#Oryza	75.93	54	17	68
	dre-mir-2190-4_mi0019588_Danio	Atlantys-2-I_OS#Gypsy#Oryza	75.93	54	17	68
	sha-mir-221_mi0019624_Sarcophilus_harrisii_miR-221_stem-loop	Helitron-1B_SBi#Helitron#Sorghum	80.95	42	76	116
	bta-mir-2284aa-2_mi0022326_Bos	RF01417;RSV_RNA;AFTD01149166.1/22000-22291	80	40	28	67
	bta-mir-2284aa-3_mi0022327_Bos	TguERVK7_I#ERV2#Estrildidae	82.5	40	3	42
	bta-mir-2284z-2_mi0022351_Bos	GYPSY2-LTR_MT#Gypsy#Medicago	80	45	7	49
	bta-mir-2284z-5_mi0022338_Bos	partial_XPA3245.xy2	82.93	41	28	67
	bta-mir-2285m-4_mi0022306_Bos	RF00100;7SK;AFSB01230228.1/12189-11874	82.5	40	9	46
	bta-mir-2285o-2_mi0022271_Bos	Transib3_DP#Transib#Drosophila	73.08	52	17	68
	ssc-mir-2320_mi0017997_Sus_scrofa_miR-2320_stem-loop	ERV1-6-EC_I#ERV1#Equus	86.36	66	5	70
	cgr-mir-23a_mi0020466_Cricetulus	Hydrogenivirga_sp_128-5-R1-1_NZ_ABHJ01000003.trna4-Se	72.73	55	20	69
	ssc-mir-2411_mi0022164_Sus_scrofa_miR-2411_stem-loop	RF00418;SNORA58;AAGU03056415.1/38747-38883	92.42	66	8	73
	sha-mir-24-2_mi0019613_Sarcophilus_harrisii_miR-24-2_stem-loop	RF01296;snoU85;AFSB01239366.1/14397-14713	77.14	70	36	102
	cgr-mir-2424_mi0020469_Cricetulus	RF01296;snoU85;AFTD01048412.1/103189-103510	100	65	1	65
	ssc-mir-2483_mi0022167_Sus_scrofa_miR-2483_stem-loop	X24_DNA#DNA	76.27	59	19	76
	tgu-mir-25_mi0016246_Taeniopygia_guttata_miR-25_stem-loop	GGLTR8A_LTR#ERV3#Gallus	82.54	63	1	59

	tca-mir-252a_mi0016350_Tribolium_castaneum_miR-252a_stem-loop	piggyBac-N1_XT	80.36	56	8	58
	mtr-MIR2590g_mi0018412_Medicago	RF00028;Intron_gpI;AM259639.1/1-295	85	40	29	67
	mtr-MIR2590h_mi0018435_Medicago	RF00028;Intron_gpI;EF137598.1/3-497	76.47	51	117	167
	mtr-MIR2590i_mi0018436_Medicago	RF00028;Intron_gpI;EF137598.1/3-497	73.24	71	133	202
	mtr-MIR2592ae_mi0018267_Medicago	Copia-33_Mad-I#Copia#Malus	80.43	46	58	99
	mtr-MIR2592ak_mi0018273_Medicago	Copia-33_Mad-I#Copia#Malus	80	40	74	111
	mtr-MIR2592am_mi0018275_Medicago	DGI_SP#Repetitive	80	50	155	204
	mtr-MIR2592ap_mi0018293_Medicago	Copia-57_Mad-I#Copia#Malus	74.6	63	292	351
	mtr-MIR2592aq_mi0018294_Medicago	RF00028;Intron_gpI;EF631954.1/16-259	80	40	210	248
	mtr-MIR2592as_mi0018296_Medicago	Copia-57_Mad-I#Copia#Malus	86.67	45	341	385
	mtr-MIR2592ay_mi0018302_Medicago	Copia-33_Mad-I#Copia#Malus	82.5	40	359	396
	mtr-MIR2592bb_mi0018305_Medicago	Copia-57_Mad-I#Copia#Malus	74.6	63	295	354
	mtr-MIR2592bf_mi0018309_Medicago	Copia-57_Mad-I#Copia#Malus	76.19	63	327	386
	mtr-MIR2593e_mi0019693_Medicago	RF01252;snR5;AACQ01000291.1/8159-8365	78	50	43	90
	mtr-MIR2606d_mi0018415_Medicago	RF00020;U5;ACTA01124382.1/13936-14051	81.82	44	90	133
	mtr-MIR2619b_mi0019077_Medicago	SHAMUDRA2_MT#MuDR#Medicago	70.27	74	93	166
	mtr-MIR2629h_mi0018413_Medicago	MuSHAN_MT#MuDR#Medicago	89.09	55	19	73
	tur-mir-279_mi0019403_Tetranychus_urticae_miR-279_stem-loop	RF00003;U1;CAEC01312745.1/486-326	78	50	1	47
	cgr-mir-28_mi0020475_Cricetulus	LINE2B#Repetitive	82.5	40	40	79
	ppy-mir-2861_mi0020953_Pongo	RF02215;ZNFX1-AS1_1;AFTD01088530.1/3-173	76.19	63	35	97
	osa-MIR2873b_mi0017257_Oryza	hAT-25_ZM#hAT#Zea	76.27	59	10	68
	osa-MIR2873c_mi0019856_Oryza	RF00447;IRES_Kv1_4;AAPE02023601.1/141964-141709	82.93	41	81	120
	han-MIR2911_mi0022263_Helianthus	LSU-rRNA_Ath	93.67	79	9	87
	nta-MIR2911_mi0021418_Nicotiana	LSU-rRNA_Ath	90	70	1	70
	osa-MIR2919_mi0013261_Oryza	RIRE3_LTR#Gypsy#Oryza	87.5	56	103	158
	osa-MIR2921_mi0013263_Oryza	ATLANTYS-LTR_OS#Gypsy#Oryza	95	40	84	123
	osa-MIR2925_mi0013267_Oryza	RF00100;7SK;AEYP01057393.1/35058-34745	76	50	4	48
	osa-MIR2931_mi0013273_Oryza	METRAHAT#hAT#Medicago	82.93	41	14	53
	mse-mir-2b_mi0021030_Manduca	Gypsy-23_VV-I#Gypsy#Vitis	81.4	43	2	44
	api-mir-3015a-1_mi0013956_Acyrthosiphon	DNA3-4_AP#DNA	93.02	43	16	58
	api-mir-3015b_mi0013960_Acyrthosiphon	DNA3-4_AP#DNA	88.1	42	20	61
	api-mir-3015c_mi0014013_Acyrthosiphon	DNA3-4_AP#DNA	90.91	44	13	56
	api-mir-3046_mi0014002_Acyrthosiphon	RF00028;Intron_gpI;EF178596.1/1-306	81.4	43	3	45
	mmu-mir-3061_mi0014023_Mus	RLTR26_MM#ERV2#Mus	78.57	56	7	60
	mmu-mir-3066_mi0014028_Mus	RF01766;cspA;CR378669.1/108242-107810	74.51	51	8	58
	mmu-mir-3068_mi0014030_Mus	RF00418;SNORA58;AFTD01092205.1/66304-66438	98.68	76	1	76
	rno-mir-3068_mi0021534_Rattus	RF00418;SNORA58;AFTD01092205.1/66304-66438	97.26	73	2	74
	mmu-mir-3069_mi0014031_Mus	RF00231;SCARNA13;AC140477.2/80275-80001	100	65	1	65
	ENSRNOG00000035568|rno-mir-3074	RF00607;SNORD98;AAIY01311124.1/260-197	82.98	47	523	60
	ENSMUSG00000092741|microRNA_3074-1_mouse	RF00607;SNORD98;AAIY01311124.1/260-197	82.98	47	523	60
	ENSMUSG00000092784|microRNA_3077_[Source:MGI_Symbol;Acc:MGI:4834250]|	TguERVK7_N1_I#ERV2#Estrildidae	70.37	81	453	

	mmu-mir-3079_mi0014042_Mus	RMER13A1#ERV2#Mus	80.85	47	21	67
	ENSMUSG00000093118|microRNA_3083_[Source:MGI_Symbol;Acc:MGI:4834256]|	CR1-38_HM#CR1#Hydra	95.77	71	440	774
	mmu-mir-3084-1_mi0014047_Mus	RF00413;SNORA19;AAHX01049704.1/2906-2781	95.59	68	1	68
	mmu-mir-3084-2_mi0020958_Mus	RF00413;SNORA19;AAHX01049704.1/2906-2781	95.59	68	1	68
	mmu-mir-3090_mi0014083_Mus	MER5A#Repetitive	83.64	55	10	62
	mmu-mir-3096a_mi0014089_Mus	RF00606;SNORD93;AEKQ01077875.1/2760-2690	98.59	71	16	86
	mmu-mir-3096b_mi0016969_Mus	RF00606;SNORD93;AEKQ01077875.1/2760-2690	98.59	71	10	80
	sha-mir-30c_mi0019635_Sarcophilus_harrisii_miR-30c_stem-loop	L1-50A_XT	76.79	56	29	83
	sha-mir-30e_mi0019634_Sarcophilus_harrisii_miR-30e_stem-loop	ERV3-1_CHo_I#ERV3#Choloepus	81.82	44	74	116
	mmu-mir-30f_mi0021961_Mus	hAT-6_XT#hAT#Xenopus	80.49	41	33	71
	pma-mir-30g_mi0017046_Petromyzon	RF00100;7SK;AALT01531718.1/6765-7059	73.58	53	31	78
	ENSRNOG00000049574|rno-mir-3102_[Source:miRBase;Acc:MI0021836]|rno-mir-3	ERV40_MD_I#ERV1#Monodelphis	85.37	41	567	607
	mmu-mir-3110_mi0014107_Mus	RMER13A2#ERV2#Mus	76.62	77	5	76
	mmu-mir-3112_mi0014109_Mus	RF00551;bicoid_3;AFPP01021574.1/8201-7656	80.49	41	3	41
	ptr-mir-3132_mi0020605_Pan_troglodytes_miR-3132_stem-loop	IAPLTR4_I#ERV2#Mus	73.77	61	46	103
	hsa-mir-3135b_mi0016809_Homo_sapiens_miR-3135b_stem-loop	RF00017;Metazoa_SRP;CABD02397156.1/1468-1211	84.91	53	16	68
	ppy-mir-3145_mi0020951_Pongo	RF01705;Flavo-1;ABMW01089030.1/27-109	80	40	36	75
	ptr-mir-3149_mi0020603_Pan_troglodytes_miR-3149_stem-loop	EnSpm-3_TA#EnSpm#Triticum	86.36	44	60	103
	hsa-mir-3150b_mi0016426_Homo_sapiens_miR-3150b_stem-loop	GRANDE1_ZD_I#Gypsy#Zea	75	52	17	66
	mml-mir-3154_mi0021288_Macaca	Mariner-3_PGr#Mariner/Tc1#Puccinia	81.4	43	2	43
	ppy-mir-3154_mi0020950_Pongo	Mariner-3_PGr#Mariner/Tc1#Puccinia	81.4	43	2	43
	ptr-mir-3154_mi0021269_Pan_troglodytes_miR-3154_stem-loop	Mariner-3_PGr#Mariner/Tc1#Puccinia	81.4	43	2	43
	ppy-mir-3170_mi0020945_Pongo	RF01417;RSV_RNA;ABRT010526064.1/378-90	80	40	6	45
	mml-mir-3173_mi0020879_Macaca	L1_RS1_5end#L1#Cercopithecinae	81.4	43	22	63
	ppy-mir-3174_mi0020955_Pongo	MER5A#Repetitive	74.29	70	2	71
	tae-MIR319_mi0016453_Triticum_aestivum_miR319_stem-loop	Gypsy-2-I_TA#Gypsy#Triticum	85	40	44	78
	vun-MIR319b_mi0019567_Vigna_unguiculata_miR319b_stem-loop	VLINE10_VV#L1#Vitis	85	40	4	41
	cme-MIR319c_mi0023234_Cucumis	L1-5_LA#L1#Loxodonta	76.92	52	76	127
	aly-MIR319d_mi0014633_Arabidopsis	RF00028;Intron_gpI;HQ342626.1/1-200	80	45	211	255
	ptr-mir-3200_mi0020583_Pan_troglodytes_miR-3200_stem-loop	LTR16E#ERV3#Homo	90	40	26	65
	ppy-mir-320e_mi0020906_Pongo	RF00019;Y_RNA;ABBA01017263.1/4152-4264	78	50	1	47
	ptr-mir-320e_mi0020577_Pan_troglodytes_miR-320e_stem-loop	LTR54_MD#Endogenous	80	45	29	71
	rno-mir-328b_mi0015479_Rattus	LINE1E_OC#L1#Oryctolagus	76.36	55	1	55
	ggo-mir-330_mi0020635_Gorilla	MIR3#SINE#Mammalia	82.93	41	5	42
	hme-mir-3338_mi0021778_Heliconius	RF00019;Y_RNA;AAQR03172622.1/1281-1384	74.14	58	30	87
	mse-mir-3389_mi0021046_Manduca	DMRT1C#Non-LTR	90	40	33	72
	ccr-mir-34_mi0023392_Cyprinus	VANDAL16#MuDR#Arabidopsis	80	45	16	58
	sha-mir-340_mi0019601_Sarcophilus_harrisii_miR-340_stem-loop	MARNA#Mariner/Tc1#Homo	82	50	50	99
	bta-mir-3432-1_mi0014500_Bos	CHRL#SINE#Cetartiodactyla	86.76	68	24	91
	bta-mir-3432-2_mi0014501_Bos	CHRL#SINE#Cetartiodactyla	87.5	40	24	63
	ath-MIR3434_mi0014667_Arabidopsis	TART#DMU02279#Drosophila	78.85	52	37	84

	aly-MIR3442_mi0014658_Arabidopsis	DNA8-42_AP#DNA	81.4	43	137	177
	aly-MIR3444b_mi0015793_Arabidopsis	RF00028;Intron_gpI;AB443869.1/1-522	82.93	41	59	99
	ggo-mir-346_mi0020737_Gorilla	FERVR2_I#ERV1#Takifugu	80.95	42	56	96
	ENSRNOG00000049021|rno-mir-3473_[Source:miRBase;Acc:MI0021538]|rno-mir-3	RF00100;7SK;AGTP01022634.1/19485-19793	82.93	41	531	571
	ENSMUSG00000093298|microRNA_3473b_mouse	RF00015;U4;AAHX01028334.1/65497-65654	94.05	84	536	619
	mmu-mir-3473c_mi0018015_Mus	RF00100;7SK;AALT01064164.1/445-100	80	50	3	51
	mmu-mir-3473d_mi0018033_Mus	RF00015;U4;AAHX01028334.1/65497-65654	86	50	33	81
	mmu-mir-3473e_mi0022357_Mus	RF00005;tRNA;AC157936.5/113940-113862	79.49	78	26	101
	sma-mir-3492_mi0021827_Schistosoma_mansoni_miR-3492_stem-loop	RTE_SJ#RTE#Schistosoma	74.42	86	6	91
	gga-mir-3524b_mi0022472_Gallus	CR1-C4#CR1#Gallus	90.91	44	8	51
	rno-mir-3542_mi0015396_Rattus	CR1-X2_3end#CR1#Gallus	76.27	59	36	93
	ENSRNOG00000035517|rno-mir-3557_[Source:miRBase;Acc:MI0015415]|Mir3557	MIRc#SINE2/tRNA#Mammalia	73.28	131	431	554
	rno-mir-3559_mi0015421_Rattus	PERERE-7#Non-LTR	78.18	55	32	84
	rno-mir-3566_mi0015431_Rattus	RF02215;ZNFX1-AS1_1;ACTA01185582.1/11590-11391	80.43	46	9	50
	rno-mir-3586_mi0015461_Rattus	MIR2#Repetitive	82.61	46	19	63
	hsa-mir-3606_mi0015996_Homo_sapiens_miR-3606_stem-loop	Transib-4_DK#Transib#Drosophila	84.44	45	1	45
	gga-mir-3607_mi0022368_Gallus	RF00341;snoZ39;ADDD01069082.1/320-382	92.06	63	25	87
	hsa-mir-3607_mi0015997_Homo_sapiens_miR-3607_stem-loop	RF00341;snoZ39;AAIY01356488.1/4173-4113	95.24	63	10	72
	hsa-mir-3611_mi0016001_Homo_sapiens_miR-3611_stem-loop	MER44C#Mariner/Tc1#Homo	80.95	42	48	83
	hsa-mir-3613_mi0016003_Homo_sapiens_miR-3613_stem-loop	Gypsy-34_VV-I#Gypsy#Vitis	80	40	24	63
	ssc-mir-3613_mi0022161_Sus_scrofa_miR-3613_stem-loop	Gypsy-34_VV-I#Gypsy#Vitis	80	40	19	58
	hsa-mir-3619_mi0016009_Homo_sapiens_miR-3619_stem-loop	RF00001;5S_rRNA;AFYH01226274.1/2460-2567	84.09	44	14	53
	hsa-mir-3620_mi0016011_Homo_sapiens_miR-3620_stem-loop	Copia-53_SB-I#Copia#Sorghum	82.5	40	5	41
	hsa-mir-3621_mi0016012_Homo_sapiens_miR-3621_stem-loop	RF02251;Six3os1_6;ABRN01211798.1/599-805	80.49	41	4	44
	vvi-MIR3625_mi0016018_Vitis_vinifera_miR3625_stem-loop	LTR2_Tbel#ERV2#Tupaia	76	50	99	146
	han-MIR3630_mi0022265_Helianthus	RF00357;snoR44_J54;AFSA01156848.1/1173-1257	95.24	84	10	93
	vvi-MIR3630_mi0016026_Vitis_vinifera_miR3630_stem-loop	RF00357;snoR44_J54;CAAP03005161.1/22116-22033	100	84	10	93
	vvi-MIR3631a_mi0016027_Vitis_vinifera_miR3631a_stem-loop	Harbinger-3N2_VV#Harbinger#Vitis	83.71	221	2	222
	vvi-MIR3631b_mi0016028_Vitis_vinifera_miR3631b_stem-loop	Harbinger-3N2_VV#Harbinger#Vitis	82.22	135	17	151
	vvi-MIR3631c_mi0016029_Vitis_vinifera_miR3631c_stem-loop	Harbinger-3N2_VV#Harbinger#Vitis	82.51	223	65	287
	vvi-MIR3631d_mi0016030_Vitis_vinifera_miR3631d_stem-loop	Harbinger-3N2_VV#Harbinger#Vitis	83.5	103	141	239
	vvi-MIR3634_mi0016033_Vitis_vinifera_miR3634_stem-loop	Gypsy-20-LTR_DR#Gypsy#Danio	81.82	44	24	67
	vvi-MIR3637_mi0016037_Vitis_vinifera_miR3637_stem-loop	RF00028;Intron_gpI;JF421604.1/17-276	71.21	66	21	86
	vvi-MIR3638_mi0016038_Vitis_vinifera_miR3638_stem-loop	ATHATN3#hAT#Arabidopsis	80	45	87	130
	vvi-MIR3639_mi0016039_Vitis_vinifera_miR3639_stem-loop	RF01766;cspA;ACYQ02000007.1/87522-87892	82.93	41	146	185
	vvi-MIR3640_mi0016040_Vitis_vinifera_miR3640_stem-loop	RF00013;6S;AGAZ01000075.1/11953-12140	82.5	40	6	45
	dme-mir-3645_mi0016045_Drosophila	L1_AC_13#L2#Anolis	80.49	41	92	132
	hsa-mir-3648_mi0016048_Homo_sapiens_miR-3648_stem-loop	MERMITE18E#DNA	72.38	105	8	104
	hsa-mir-3651_mi0016051_Homo_sapiens_miR-3651_stem-loop	RF01229;SNORA84;CABD02382723.1/587-455	100	87	1	87
	hsa-mir-3653_mi0016053_Homo_sapiens_miR-3653_stem-loop	RF01200;SNORD125;AEHK01008479.1/7994-7899	100	96	10	105
	hsa-mir-3657_mi0016057_Homo_sapiens_miR-3657_stem-loop	Sola1-1_PPa#Sola#Physcomitrella	74.14	58	11	65

	hsa-mir-3658_mi0016058_Homo_sapiens_miR-3658_stem-loop	RF00017;Metazoa_SRP;AC202667.3/84348-84619	80.43	46	9	54
	hsa-mir-3665_mi0016066_Homo_sapiens_miR-3665_stem-loop	Gypsy-8-I_CR#Gypsy#Chlamydomonas	81.48	54	4	56
	hsa-mir-3668_mi0016069_Homo_sapiens_miR-3668_stem-loop	Caulimovirus-4_STu#Caulimoviridae#Solanum	85.37	41	16	55
	hsa-mir-3669_mi0016070_Homo_sapiens_miR-3669_stem-loop	DNA-2-24_DR#DNA	76.54	81	1	81
	hsa-mir-3671_mi0016072_Homo_sapiens_miR-3671_stem-loop	RF00028;Intron_gpI;FJ794187.1/2-465	81.4	43	26	68
	hsa-mir-3672_mi0016073_Homo_sapiens_miR-3672_stem-loop	L1M3A_5#L1#Eutheria	81.03	58	2	58
	hsa-mir-3673_mi0016074_Homo_sapiens_miR-3673_stem-loop	RF00261;IRES_L-myc;ABRM01039850.1/128-341	79.41	102	1	102
	hsa-mir-3674_mi0016075_Homo_sapiens_miR-3674_stem-loop	LTR8B#ERV1#Homo	95.12	41	1	41
	hsa-mir-3676_mi0016077_Homo_sapiens_miR-3676_stem-loop	Ailuropoda_melanoleuca_GL192808.1.trna52-ThrAGT	100	59	1	59
	hsa-mir-3677_mi0016078_Homo_sapiens_miR-3677_stem-loop	HERV18#Endogenous	80	40	15	54
	hsa-mir-3680-1_mi0016081_Homo_sapiens_miR-3680-1_stem-loop	MER96#hAT#Homo	85.06	87	1	87
	hsa-mir-3680-2_mi0019113_Homo_sapiens_miR-3680-2_stem-loop	MER96#hAT#Homo	85.06	87	1	87
	hsa-mir-3683_mi0016084_Homo_sapiens_miR-3683_stem-loop	SATR1#SAT#Homo	84.93	73	1	69
	hsa-mir-3689b_mi0016411_Homo_sapiens_miR-3689b_stem-loop	Copia-131_SB-I#Copia#Sorghum	80.49	41	14	50
	asu-mir-36a_mi0018536_Ascaris	GGLTR12B#ERV3#Gallus	80.95	42	28	69
	pab-MIR3701_mi0016103_Picea	Copia-75_Mad-I#Copia#Malus	80	40	67	106
	pab-MIR3704_mi0016106_Picea	LTR-4_Mad#LTR	80	40	36	73
	ame-mir-3720_mi0016168_Apis	RF00218;SNORD46;AELG01001181.1/36719-36598	72.58	124	13	135
	ame-mir-3725_mi0016222_Apis	RF00028;Intron_gpI;AY437979.1/26-396	82.93	41	3	41
	ame-mir-3737_mi0016236_Apis	hAT-N2_Mad#hAT#Malus	85.37	41	33	71
	ame-mir-3744_mi0016243_Apis	RF00028;Intron_gpI;EU420843.1/2-451	81.82	44	16	58
	ame-mir-3746_mi0016144_Apis	RF01577;RNase_P;AM910986.1/48164-48794	82.93	41	23	63
	ame-mir-3756_mi0016157_Apis	RF00003;U1;ACPB02031547.1/16978-17135	75.44	57	39	95
	ame-mir-3757_mi0016159_Apis	Gypsy8-I_AP#Gypsy#Acyrthosiphon	75.41	61	66	124
	ame-mir-3758_mi0016160_Apis	DIRS-38_XT#DIRS#Xenopus	80.49	41	13	52
	ame-MIR-3759_mi0016162_Apis	RF00017;Metazoa_SRP;AEKZ01000517.1/17516-17220	97.83	92	1	92
	ame-mir-3760_mi0016163_Apis	RF00028;Intron_gpI;AF387464.1/17-488	83.67	49	85	133
	ame-mir-3762_mi0016165_Apis	Sola2-3_DPu#Sola#Daphnia	81.91	94	34	125
	ame-mir-3767_mi0016171_Apis	GYPSM1_I#Gypsy#Schmidtea	80.43	46	46	91
	ame-mir-3774_mi0016181_Apis	RF00028;Intron_gpI;EU246919.1/1-292	80.49	41	20	60
	mmu-mir-378c_mi0021923_Mus	RF00001;5S_rRNA;ADFJ01000091.1/44416-44541	80.49	41	11	47
	mml-mir-378d_mi0020861_Macaca	RF00005;tRNA;AAPN01094161.1/8954-9025	85.37	41	73	109
	ppy-mir-378d_mi0020908_Pongo	THER2_ME#SINE3/5S#Macropus	80.43	46	61	105
	hsa-mir-378d-2_mi0003840_Homo_sapiens_miR-378d-2_stem-loop	Gypsy-43_MLP-I#Gypsy#Melampsora	83.33	42	1	41
	hsa-mir-378g_mi0016761_Homo_sapiens_miR-378g_stem-loop	RF00005;tRNA;AAPN01047639.1/1830-1901	81.4	43	1	41
	hsa-mir-378h_mi0016808_Homo_sapiens_miR-378h_stem-loop	MIRc#SINE2/tRNA#Mammalia	71.43	84	5	81
	ptr-mir-378j_mi0021263_Pan_troglodytes_miR-378j_stem-loop	THER2_MD#SINE#Monodelphis	82.93	41	23	62
	tca-mir-3806_mi0016263_Tribolium_castaneum_miR-3806_stem-loop	HAT-8_Mad#hAT#Malus	74.55	55	55	108
	tca-mir-3814_mi0016272_Tribolium_castaneum_miR-3814_stem-loop	Gypsy-19_PGr-I#Gypsy#Puccinia	76	50	1	50
	tca-mir-3819_mi0016406_Tribolium_castaneum_miR-3819_stem-loop	EnSpm-20_HMa#EnSpm#Hydra	82.93	41	60	100
	tca-mir-3820_mi0016280_Tribolium_castaneum_miR-3820_stem-loop	GYPSY6-I_AG#Gypsy#Anopheles	82.93	41	36	75

	tca-mir-3825_mi0016286_Tribolium_castaneum_miR-3825_stem-loop	RF00028;Intron_gpI;DQ238571.1/1-323	76.67	60	1	55
	tca-mir-3830_mi0016292_Tribolium_castaneum_miR-3830_stem-loop	R1-1B_DK#R1#Drosophila	80.49	41	1	39
	tca-mir-3834_mi0016297_Tribolium_castaneum_miR-3834_stem-loop	Polinton-2_TC#Polinton#Tribolium	81.25	48	6	47
	tca-mir-3837_mi0016301_Tribolium_castaneum_miR-3837_stem-loop	Polinton-3_HM#Polinton#Hydra	80.49	41	1	41
	tca-mir-3838_mi0016307_Tribolium_castaneum_miR-3838_stem-loop	Sola1-3_AP#Sola#Acyrthosiphon	80.95	42	55	96
	tca-mir-3841_mi0016310_Tribolium_castaneum_miR-3841_stem-loop	RF00459;MPMV_package;AAGV020389535.1/570-288	80.49	41	1	39
	tca-mir-3843_mi0016313_Tribolium_castaneum_miR-3843_stem-loop	Gypsy-101_GM-I#Gypsy#Glycine	73.21	56	11	62
	tca-mir-3846_mi0016317_Tribolium_castaneum_miR-3846_stem-loop	Mariner-26_SM#Mariner/Tc1#Schmidtea	80.49	41	50	89
	tca-mir-3850_mi0016324_Tribolium_castaneum_miR-3850_stem-loop	ENSPM2_VV#EnSpm#Vitis	78.43	51	69	118
	tca-mir-3851d_mi0016337_Tribolium_castaneum_miR-3851d_stem-loop	Kiri-30_AAe#Kiri#Aedes	82.22	45	78	121
	tca-mir-3853_mi0016328_Tribolium_castaneum_miR-3853_stem-loop	RF00100;7SK;ABRR01136600.1/1387-1662	75.47	53	58	107
	tca-mir-3855_mi0016331_Tribolium_castaneum_miR-3855_stem-loop	Gypsy-2_DFi-I#Gypsy#Drosophila	77.94	68	5	72
	tca-mir-3859_mi0016343_Tribolium_castaneum_miR-3859_stem-loop	RF00291;snoR639;AEKZ01013897.1/31320-31187	79.1	67	4	68
	tca-mir-3861_mi0016346_Tribolium_castaneum_miR-3861_stem-loop	RF00028;Intron_gpI;AF289746.1/840-401	78.18	55	42	96
	tca-mir-3868_mi0016362_Tribolium_castaneum_miR-3868_stem-loop	ATCOPIA17LTR#Copia#Arabidopsis	80.43	46	49	94
	tca-mir-3873_mi0016367_Tribolium_castaneum_miR-3873_stem-loop	REP_DE#Repetitive	77.36	53	70	120
	tca-mir-3876_mi0016370_Tribolium_castaneum_miR-3876_stem-loop	Gypsy-1_LENY-I#Gypsy#Lodderomyces	85	40	14	50
	tca-mir-3897_mi0016397_Tribolium_castaneum_miR-3897_stem-loop	Gypsy-9_DPu-I#Gypsy#Daphnia	80	40	36	75
	tca-mir-3901_mi0016401_Tribolium_castaneum_miR-3901_stem-loop	RF00028;Intron_gpI;AF239537.1/2-483	79.37	63	61	121
	tca-mir-3902_mi0016402_Tribolium_castaneum_miR-3902_stem-loop	BLOOD_I#Gypsy#Drosophila	80.49	41	57	97
	tca-mir-3903_mi0016403_Tribolium_castaneum_miR-3903_stem-loop	Sola1-4_AP#Sola#Acyrthosiphon	80	40	26	60
	tca-mir-3904_mi0016404_Tribolium_castaneum_miR-3904_stem-loop	RF00028;Intron_gpI;X75706.1/1-492	73.42	79	26	102
	hsa-mir-3907_mi0016410_Homo_sapiens_miR-3907_stem-loop	RF00100;7SK;AAKN02053877.1/86997-86755	76.27	59	75	129
	hsa-mir-3908_mi0016412_Homo_sapiens_miR-3908_stem-loop	RF00017;Metazoa_SRP;ABSL01174557.1/586-314	97.5	40	83	122
	hsa-mir-3910-1_mi0016414_Homo_sapiens_miR-3910-1_stem-loop	HARB-3_ALy#Harbinger#Arabidopsis	80	40	58	95
	hsa-mir-3910-2_mi0016431_Homo_sapiens_miR-3910-2_stem-loop	HARB-3_ALy#Harbinger#Arabidopsis	80	40	1	38
	hsa-mir-3914-1_mi0016419_Homo_sapiens_miR-3914-1_stem-loop	QUASIMODO_I#Gypsy#Drosophila	80.95	42	44	85
	hsa-mir-3914-2_mi0016421_Homo_sapiens_miR-3914-2_stem-loop	QUASIMODO_I#Gypsy#Drosophila	80.95	42	13	54
	hsa-mir-3916_mi0016422_Homo_sapiens_miR-3916_stem-loop	SC-6_LTR#Copia#Oryza	85	40	8	47
	hsa-mir-3919_mi0016425_Homo_sapiens_miR-3919_stem-loop	RF00019;Y_RNA;ABDC01224945.1/1546-1450	82.5	40	42	81
	ggo-mir-3923_mi0020843_Gorilla	MLT1B#Non-LTR	88.1	42	31	72
	hsa-mir-3923_mi0016430_Homo_sapiens_miR-3923_stem-loop	MLT1B#Non-LTR	81.48	54	3	56
	hsa-mir-3924_mi0016432_Homo_sapiens_miR-3924_stem-loop	RF01825;RUF21;AABY01000015.1/103580-104263	75.47	53	10	61
	hsa-mir-3925_mi0016433_Homo_sapiens_miR-3925_stem-loop	TIGGER1#Mariner/Tc1#Homo	80	50	34	77
	hsa-mir-3929_mi0016439_Homo_sapiens_miR-3929_stem-loop	RF00017;Metazoa_SRP;ACFV01135724.1/19790-19517	95.65	46	2	47
	hsa-mir-3934_mi0016590_Homo_sapiens_miR-3934_stem-loop	MIR#SINE2/tRNA#Mammalia	76.29	97	15	107
	ppy-mir-3934_mi0020923_Pongo	MIR#SINE#Mammalia	76.67	90	11	96
	hsa-mir-3935_mi0016591_Homo_sapiens_miR-3935_stem-loop	Copia-54_VV-I#Copia#Vitis	82.5	40	23	60
	ppy-mir-3938_mi0020939_Pongo	RF00011;RNaseP_bact_b;AL445564.1/66939-67229	72.22	72	8	78
	cme-MIR393a_mi0023240_Cucumis	HELITRON4#DNA	80.49	41	28	68
	tcc-MIR393a_mi0017505_Theobroma_cacao_miR393a_stem-loop	RF00028;Intron_gpI;AF152653.1/1-459	80.43	46	36	81

	cme-MIR393b_mi0023241_Cucumis	L1-6_TS#L1#Tarsius	82.81	64	45	104
	gma-MIR393d_mi0021705_Glycine	CR1-78_HM#CR1#Hydra	80.95	42	49	90
	gma-MIR393g_mi0021708_Glycine	CR1-78_HM#CR1#Hydra	80.95	42	47	88
	ssl-MIR394_mi0019349_Salvia_sclarea_miR394_stem-loop	RF00028;Intron_gpI;AJ544485.1/6-240	85.37	41	57	95
	csi-MIR3948_mi0016730_Citrus	ERV1-1N-EC_I#ERV1#Equus	74.55	55	75	129
	aly-MIR394a_mi0014574_Arabidopsis	CR1-18_HM#CR1#Hydra	77.36	53	91	142
	cme-MIR394a_mi0023244_Cucumis	ATCOPIA84LTR#Copia#Arabidopsis	85	40	35	73
	gma-MIR394a_mi0016582_Glycine	TUB1#SINE#Tupaia	81.25	48	40	86
	cme-MIR394b_mi0023243_Cucumis	RF00028;Intron_gpI;HQ613698.1/2-268	86.05	43	50	92
	tcc-MIR394b_mi0017508_Theobroma_cacao_miR394b_stem-loop	Copia-20_CQ-I#Copia#Culex	80.95	42	85	124
	csi-MIR3951_mi0016734_Citrus	RLTR10A#ERV2#Mus	85.37	41	87	126
	oar-mir-3955_mi0016916_Ovis	RF00600;SNORA79;DAAA02053249.1/42516-42661	97.53	81	26	106
	cme-MIR395a_mi0023245_Cucumis	TRANSIB1_AG#Transib#Anopheles	80.43	46	13	58
	aly-MIR395i_mi0015778_Arabidopsis	Mariner-2_AP#Mariner/Tc1#Acyrthosiphon	76.47	51	22	68
	hsa-mir-3960_mi0016964_Homo_sapiens_miR-3960_stem-loop	Gypsy-8-I_CR#Gypsy#Chlamydomonas	90	40	50	89
	mmu-mir-3960_mi0016963_Mus	Copia10-I_CR#Copia#Chlamydomonas	75.44	57	17	73
	cme-MIR396a_mi0023210_Cucumis	Gypsy-21_Mad-I#Gypsy#Malus	81.4	43	5	47
	nta-MIR396a_mi0021398_Nicotiana	RF00028;Intron_gpI;DQ899185.1/1-482	82.5	40	66	104
	tcc-MIR396a_mi0017511_Theobroma_cacao_miR396a_stem-loop	Gypsy-7_ALY-I#Gypsy#Arabidopsis	81.4	43	97	139
	aly-MIR396b_mi0014582_Arabidopsis	Copia15-VV_I#Copia#Vitis	81.63	49	51	97
	nta-MIR396b_mi0021399_Nicotiana	TABARE#Endogenous	73.85	65	19	82
	csi-MIR396c_mi0016735_Citrus	ATENSPM5#EnSpm#Arabidopsis	100	52	41	92
	cme-MIR396d_mi0023251_Cucumis	RF00100;7SK;AEYP01044022.1/6607-6374	85.37	41	107	147
	cme-MIR396e_mi0023266_Cucumis	ATHILA7_I#Gypsy#Arabidopsis	90.7	43	69	111
	gma-MIR396e_mi0016586_Glycine	Gypsy-36_Mad-I#Gypsy#Malus	82.93	41	7	44
	tcc-MIR396e_mi0017515_Theobroma_cacao_miR396e_stem-loop	BEL-8_DPu-I#BEL#Daphnia	80.95	42	83	124
	mdm-MIR396g_mi0023099_Malus	CR1-32_DR#CR1#Danio	75.41	61	63	121
	nta-MIR397_mi0021401_Nicotiana	hAT-11N_VV#hAT#Vitis	80.43	46	3	48
	ssl-MIR397_mi0019352_Salvia_sclarea_miR397_stem-loop	BEL-98_AA-I#BEL#Aedes	76.36	55	9	63
	hsa-mir-3972_mi0016990_Homo_sapiens_miR-3972_stem-loop	MER45C#hAT#Homo	73.17	82	1	82
	hsa-mir-3974_mi0016992_Homo_sapiens_miR-3974_stem-loop	TIRANT_I#LTR	75.47	53	40	92
	hsa-mir-3975_mi0016993_Homo_sapiens_miR-3975_stem-loop	I-5_DBp#I#Drosophila	78	50	5	53
	ssl-MIR398_mi0019353_Salvia_sclarea_miR398_stem-loop	RF00002;5_8S_rRNA;DAAA02070793.1/70449-70600	80	40	1	40
	bdi-MIR398b_mi0018150_Brachypodium	Copia49-PTR_I#Copia#Populus	81.25	48	44	86
	tcc-MIR399a_mi0017519_Theobroma_cacao_miR399a_stem-loop	RF00023;tmRNA;CP002189.2/623630-624062	85	40	49	88
	aly-MIR399b_mi0014589_Arabidopsis	RF00028;Intron_gpI;AJ290270.1/2-504	80	40	58	97
	cme-MIR399b_mi0023271_Cucumis	RF00017;Metazoa_SRP;CABD02064933.1/1393-1142	85.19	54	56	107
	csi-MIR399b_mi0016713_Citrus	RF00028;Intron_gpI;AY608132.1/2-322	81.63	49	74	120
	cme-MIR399c_mi0023256_Cucumis	L1_AC_7#L2#Anolis	90.24	41	47	87
	tcc-MIR399c_mi0017521_Theobroma_cacao_miR399c_stem-loop	DIRS-5_PGr#DIRS#Puccinia	77.27	66	70	129
	gma-MIR399e_mi0019777_Glycine	RF01766;cspA;CABM01000036.1/41547-41950	77.78	54	80	131

	cme-MIR399f_mi0023191_Cucumis	CR1-18_HM#CR1#Hydra	74.65	71	27	92
	aly-MIR400_mi0014594_Arabidopsis	RF00023;tmRNA;AACY022586141.1/19-417	77.78	54	110	161
	aly-MIR408_mi0014596_Arabidopsis	ERVB5_1-I_MM#Endogenous	91.84	49	142	190
	vun-MIR408_mi0019578_Vigna_unguiculata_miR408_stem-loop	Gypsy-36_DWil-I#Gypsy#Drosophila	80.49	41	174	214
	gma-MIR408b_mi0018648_Glycine	MuDR-18_VV#MuDR#Vitis	83.72	43	46	87
	gma-MIR408d_mi0017848_Glycine	MuDR-18_VV#MuDR#Vitis	84.44	45	42	82
	cin-mir-4179b_mi0019170_Ciona	Penelope1_CI#Penelope#Ciona	82.54	63	15	74
	ggo-mir-421_mi0020715_Gorilla	MIR2#Repetitive	87.23	47	24	69
	ssc-mir-421_mi0015925_Sus_scrofa_miR-421_stem-loop	MIR2#Repetitive	86.67	45	1	44
	aly-MIR4223_mi0015784_Arabidopsis	L1_AC_6#L2#Anolis	80.49	41	85	124
	ath-MIR4227_mi0015816_Arabidopsis	LINE1B_MT#L1#Medicago	76.47	51	67	117
	aly-MIR4234_mi0015796_Arabidopsis	ATRAN#DNA	81.4	43	80	122
	aly-MIR4237_mi0015799_Arabidopsis	RF00167;Purine;ADCR01000004.1/65332-65427	80.49	41	62	102
	ath-MIR4245_mi0020194_Arabidopsis	SPMLIKE#DNA	73.85	65	44	104
	aly-MIR4248a_mi0015810_Arabidopsis	BRODYAGA2#DNA	90	40	146	185
	aly-MIR4248b_mi0015811_Arabidopsis	BRODYAGA2#DNA	90	40	152	191
	aly-MIR4248c_mi0015812_Arabidopsis	BRODYAGA2#DNA	89.13	46	133	178
	ccr-mir-430_mi0023398_Cyprinus	RF01413;CABZ01102744.1/29-118	91.3	69	1	69
	ssc-mir-4331_mi0015910_Sus_scrofa_miR-4331_stem-loop	PRE1_SS#SINE#Sus	83.1	71	4	74
	ssc-mir-4332_mi0015917_Sus_scrofa_miR-4332_stem-loop	LSU-rRNA_Hsa#rRNA#Metazoa	88.17	93	15	107
	ssc-mir-4333_mi0015918_Sus_scrofa_miR-4333_stem-loop	RF00563;SNORA53;X77338.1/4681-4920	96	100	3	102
	ssc-mir-4336_mi0015930_Sus_scrofa_miR-4336_stem-loop	RF00425;SNORA18;CU582930.10/144359-144494	92.77	83	1	78
	ssc-mir-4339_mi0015935_Sus_scrofa_miR-4339_stem-loop	RF02164;PVT1_1;AAQQ01553941.1/1089-1283	80.85	47	4	46
	gma-MIR4345_mi0016474_Glycine	RF00100;7SK;AANN01738378.1/2213-2487	80	45	14	58
	gma-MIR4352b_mi0016517_Glycine	RF00028;Intron_gpI;AY251180.1/13-327	82.22	45	75	118
	gma-MIR4357_mi0016490_Glycine	TguLTRK4a#ERV2#Estrildidae	80.49	41	2	40
	gma-MIR4359a_mi0016492_Glycine	TGM1_GM#transposon#Glycine	76.47	119	1	112
	gma-MIR4359b_mi0016494_Glycine	TGM1_GM#transposon#Glycine	80	50	18	67
	gma-MIR4363_mi0016500_Glycine	GmCOPIA10_I#Copia#Glycine	98.2	111	1	111
	gma-MIR4371b_mi0016515_Glycine	RF00017;Metazoa_SRP;ABDC01511710.1/1013-730	81.82	44	34	76
	ssp-MIR437a_mi0018182_Saccharum_ssp._miR437a_stem-loop	STOWAWAY14_SB#DNA	92.5	40	136	175
	ssp-MIR437b_mi0018183_Saccharum_ssp._miR437b_stem-loop	DNA-2-N2_TA#DNA	87.04	54	101	154
	ssp-MIR437c_mi0018184_Saccharum_ssp._miR437c_stem-loop	STOWAWAY14_SB#DNA	87.72	57	121	177
	sbi-MIR437x_mi0023516_Sorghum_bicolor_miR437x_stem-loop	STOWAWAY3_SB#DNA	85.47	234	26	259
	gma-MIR4388_mi0016541_Glycine	MuDRASH3_MT#MuDR#Medicago	80.85	47	110	153
	gma-MIR4391_mi0016545_Glycine	Copia-58_VV-I#Copia#Vitis	82.46	57	1	54
	gma-MIR4402_mi0016561_Glycine	Clu-168_AG#DNA	80.85	47	6	51
	gma-MIR4408_mi0016568_Glycine	RF00410;SNORA2;AANN01024386.1/1105-1234	80	45	9	49
	hsa-mir-4419a_mi0016755_Homo_sapiens_miR-4419a_stem-loop	RF00017;Metazoa_SRP;AEHK01183279.1/21535-21310	94	50	1	50
	hsa-mir-4419b_mi0016861_Homo_sapiens_miR-4419b_stem-loop	RF00017;Metazoa_SRP;ACFV01171902.1/6544-6848	86.96	46	25	67
	hsa-mir-4420_mi0016757_Homo_sapiens_miR-4420_stem-loop	L1ME3C_3end#L1#Eutheria	80.85	47	9	55

	hsa-mir-4421_mi0016758_Homo_sapiens_miR-4421_stem-loop	MER52#Repetitive	87.5	64	3	66
	hsa-mir-4426_mi0016765_Homo_sapiens_miR-4426_stem-loop	BEL1-I_SM#BEL#Schmidtea	93.62	47	6	52
	hsa-mir-4428_mi0016767_Homo_sapiens_miR-4428_stem-loop	LTR9#Long	90.63	64	10	73
	ptr-mir-4428_mi0020616_Pan_troglodytes_miR-4428_stem-loop	LTR9#Long	87.85	107	5	111
	hsa-mir-4430_mi0016769_Homo_sapiens_miR-4430_stem-loop	RF00017;Metazoa_SRP;ABSL01052596.1/40108-40384	88.89	45	2	46
	hsa-mir-4438_mi0016781_Homo_sapiens_miR-4438_stem-loop	L1P2_5#LINE#Eutheria	81.25	48	4	45
	ptr-mir-4446_mi0020576_Pan_troglodytes_miR-4446_stem-loop	CER1#Gypsy#Caenorhabditis	76.47	51	28	74
	hsa-mir-4447_mi0016790_Homo_sapiens_miR-4447_stem-loop	MER20#hAT#Homo	88.1	42	50	91
	hsa-mir-4448_mi0016791_Homo_sapiens_miR-4448_stem-loop	LTR13#LTR#Homo	81.93	83	5	86
	hsa-mir-4449_mi0016792_Homo_sapiens_miR-4449_stem-loop	ENSPM2_ZM#EnSpm#Zea	76	50	18	66
	ssp-MIR444a_mi0018185_Saccharum_ssp._miR444a_stem-loop	Gypsy-38_DAn-I#Gypsy#Drosophila	80.95	42	16	57
	ssp-MIR444b_mi0018186_Saccharum_ssp._miR444b_stem-loop	Gypsy-38_DAn-I#Gypsy#Drosophila	80.95	42	16	57
	ppy-mir-4451_mi0020910_Pongo	RF00001;5S_rRNA;AAWZ02000075.1/14748-14643	80	40	12	49
	hsa-mir-4452_mi0016798_Homo_sapiens_miR-4452_stem-loop	RF00017;Metazoa_SRP;ABRT010032086.1/1659-1370	84.09	44	2	45
	hsa-mir-4459_mi0016805_Homo_sapiens_miR-4459_stem-loop	SVA#SINE#Homo	86.54	52	15	65
	hsa-mir-4463_mi0016811_Homo_sapiens_miR-4463_stem-loop	MER5A#Repetitive	75.76	66	4	67
	hsa-mir-4466_mi0016817_Homo_sapiens_miR-4466_stem-loop	EnSpm-2_PGr#EnSpm#Puccinia	75.47	53	2	53
	ENSMUSG00000092990|microRNA_446q_[Source:MGI_Symbol;Acc:MGI:4950412]|	TRAS1#Non-LTR	92.73	55	497	548
	hsa-mir-4472-2_mi0016824_Homo_sapiens_miR-4472-2_stem-loop	RF00017;Metazoa_SRP;AEHL01226555.1/1994-1688	93.48	46	22	67
	hsa-mir-4481_mi0016842_Homo_sapiens_miR-4481_stem-loop	MSTC#ERV3#Eutheria	84.31	51	1	47
	hsa-mir-4488_mi0016849_Homo_sapiens_miR-4488_stem-loop	Copia-47_ZM-I#Copia#Zea	85	40	13	52
	hsa-mir-4494_mi0016856_Homo_sapiens_miR-4494_stem-loop	MER44B#Repetitive	85.71	56	2	56
	hsa-mir-4497_mi0016859_Homo_sapiens_miR-4497_stem-loop	MERMITEA#DNA	71.25	80	13	87
	hsa-mir-4502_mi0016865_Homo_sapiens_miR-4502_stem-loop	TIGGER1#Mariner/Tc1#Homo	86.89	61	1	61
	hsa-mir-4503_mi0016866_Homo_sapiens_miR-4503_stem-loop	Gypsy9-NVi_I#Gypsy#Nasonia	81.4	43	41	83
	hsa-mir-4504_mi0016867_Homo_sapiens_miR-4504_stem-loop	L1MA8#L1#Homo	83.33	42	51	92
	ptr-mir-4504_mi0020612_Pan_troglodytes_miR-4504_stem-loop	L1MA8#Repetitive	90.91	44	8	51
	hsa-mir-4507_mi0016871_Homo_sapiens_miR-4507_stem-loop	P-1_CR#P#Chlamydomonas	73.58	53	2	51
	hsa-mir-4508_mi0016872_Homo_sapiens_miR-4508_stem-loop	Gypsy-6-I_CR#Gypsy#Chlamydomonas	80.49	41	20	60
	bta-mir-450b_mi0021121_Bos	CR1-38_HM#CR1#Hydra	76.79	56	1	56
	hsa-mir-4512_mi0016878_Homo_sapiens_miR-4512_stem-loop	Alu2_TS#SINE1/7SL#Tarsius	92.86	42	3	44
	hsa-mir-4522_mi0016889_Homo_sapiens_miR-4522_stem-loop	RF00100;7SK;AFSB01232720.1/25848-25518	80.43	46	42	85
	hsa-mir-4525_mi0016892_Homo_sapiens_miR-4525_stem-loop	MER52D#ERV1#Homo	80.95	42	34	74
	hsa-mir-4528_mi0016895_Homo_sapiens_miR-4528_stem-loop	RF00028;Intron_gpI;AY699227.1/1-486	81.25	48	23	68
	ggo-mir-4536_mi0020841_Gorilla	CR1-18_HM#CR1#Hydra	73.2	97	2	96
	mml-mir-4536_mi0020880_Macaca	RF00100;7SK;AALT01305052.1/1773-1464	80.85	47	65	111
	ptr-mir-4536_mi0020599_Pan_troglodytes_miR-4536_stem-loop	RF02112;DLG2-AS1_1;AFEY01409503.1/4522-4722	83.72	43	27	67
	hsa-mir-4536-1_mi0016906_Homo_sapiens_miR-4536-1_stem-loop	RF02112;DLG2-AS1_1;AFEY01409503.1/4522-4722	83.72	43	42	82
	hsa-mir-4536-2_mi0019149_Homo_sapiens_miR-4536-2_stem-loop	RF02112;DLG2-AS1_1;AFEY01409503.1/4522-4722	83.72	43	7	47
	hsa-mir-4537_mi0016908_Homo_sapiens_miR-4537_stem-loop	GCTCA@1	86.15	65	1	65
	hsa-mir-4538_mi0016909_Homo_sapiens_miR-4538_stem-loop	GCCCA@1	82.81	64	13	76

	hsa-mir-4539_mi0016910_Homo_sapiens_miR-4539_stem-loop	GCTCA@1	86.36	44	14	57
	ccr-mir-454a_mi0023399_Cyprinus	RF00618;U4atac;AGCE01069177.1/108597-108472	80.49	41	22	61
	pma-mir-4558_mi0017168_Petromyzon	RTAg4#Non-LTR	76.36	55	29	82
	pma-mir-4587_mi0017197_Petromyzon	L1_AC_7#L2#Anolis	85.71	42	26	66
	pma-mir-4589_mi0017199_Petromyzon	TART_DV#Non-LTR	82.5	40	3	42
	pma-mir-4615_mi0017226_Petromyzon	MARE2#Mariner/Tc1#Mammalia	77.78	63	4	66
	hsa-mir-4637_mi0017264_Homo_sapiens_miR-4637_stem-loop	EnSpm-N21_SBi#EnSpm#Sorghum	80.49	41	27	62
	ENSMUSG00000078026|microRNA_4660_[Source:MGI_Symbol;Acc:MGI:4834279]|	TRAS1#Non-LTR	87.5	40	501	540
	hsa-mir-4666b_mi0019299_Homo_sapiens_miR-4666b_stem-loop	MSTA#ERV3#Primates	82.98	47	30	76
	ptr-mir-4667_mi0020607_Pan_troglodytes_miR-4667_stem-loop	hATm-53_HM#hAT#Hydra	80.95	42	10	51
	hsa-mir-4668_mi0017298_Homo_sapiens_miR-4668_stem-loop	Pifo_I#Gypsy#Drosophila	73.33	60	7	66
	mmu-mir-466b-4_mi0014060_Mus	TRAS1#Non-LTR	87.5	40	1	40
	mmu-mir-466b-5_mi0014063_Mus	CR1-18_HM#CR1#Hydra	81.97	61	1	59
	mmu-mir-466b-6_mi0014067_Mus	TRAS1#Non-LTR	87.5	40	1	40
	mmu-mir-466b-7_mi0014070_Mus	CR1-18_HM#CR1#Hydra	81.97	61	1	59
	mmu-mir-466b-8_mi0014112_Mus	CR1-18_HM#CR1#Hydra	80.65	62	1	60
	mmu-mir-466c-2_mi0014057_Mus	CR1-18_HM#CR1#Hydra	78.69	61	1	61
	rno-mir-466d_mi0015419_Rattus	TRAS1#Non-LTR	79.25	53	40	92
	mmu-mir-466m_mi0014050_Mus	RF00261;IRES_L-myc;ABXC01001672.1/248-8	88.37	43	42	84
	mmu-mir-466n_mi0014079_Mus	CR1-18_HM#CR1#Hydra	79.37	63	2	64
	mmu-mir-466o_mi0014052_Mus	TRAS1#Non-LTR	87.5	40	1	40
	mmu-mir-466p_mi0014078_Mus	TRAS1#Non-LTR	87.5	40	1	40
	mmu-mir-466q_mi0018032_Mus	TRAS3_BM#R1#Bombyx	91.11	45	1	45
	hsa-mir-4674_mi0017305_Homo_sapiens_miR-4674_stem-loop	LSU-rRNA_Hsa#rRNA#Metazoa	75	56	13	68
	hsa-mir-4677_mi0017308_Homo_sapiens_miR-4677_stem-loop	RF00230;T-box;FP929055.1/1899931-1900152	80	40	25	63
	hsa-mir-4679-1_mi0017310_Homo_sapiens_miR-4679-1_stem-loop	RF01705;Flavo-1;AM398681.1/563089-563169	80.95	42	25	65
	hsa-mir-4679-2_mi0017311_Homo_sapiens_miR-4679-2_stem-loop	RF01705;Flavo-1;AM398681.1/563089-563169	80.95	42	12	52
	mmu-mir-467a-10_mi0014076_Mus	TSESSEBEII#Mariner/Tc1#Anopheles	80	40	44	83
	mmu-mir-467a-2_mi0014053_Mus	TSESSEBEII#Mariner/Tc1#Anopheles	80	40	44	83
	mmu-mir-467a-3_mi0014056_Mus	TSESSEBEII#Mariner/Tc1#Anopheles	80	40	44	83
	mmu-mir-467a-4_mi0014059_Mus	TSESSEBEII#Mariner/Tc1#Anopheles	80	40	44	83
	mmu-mir-467a-5_mi0014062_Mus	TSESSEBEII#Mariner/Tc1#Anopheles	80	40	44	83
	mmu-mir-467a-6_mi0014065_Mus	TSESSEBEII#Mariner/Tc1#Anopheles	80	40	44	83
	mmu-mir-467a-7_mi0014069_Mus	TSESSEBEII#Mariner/Tc1#Anopheles	80	40	44	83
	mmu-mir-467a-8_mi0014072_Mus	TSESSEBEII#Mariner/Tc1#Anopheles	80	40	44	83
	mmu-mir-467a-9_mi0014074_Mus	TSESSEBEII#Mariner/Tc1#Anopheles	80	40	44	83
	hsa-mir-4694_mi0017327_Homo_sapiens_miR-4694_stem-loop	RF00028;Intron_gpI;HQ287715.1/1-432	81.4	43	35	77
	hsa-mir-4705_mi0017338_Homo_sapiens_miR-4705_stem-loop	RF01417;RSV_RNA;ACFV01134535.1/1803-1517	80	40	28	67
	hsa-mir-4719_mi0017354_Homo_sapiens_miR-4719_stem-loop	HAT-N9_Mad#DNA	81.4	43	15	55
	hsa-mir-4734_mi0017371_Homo_sapiens_miR-4734_stem-loop	hATw-2_BF#hAT#Branchiostoma	78	50	1	49
	hsa-mir-4741_mi0017379_Homo_sapiens_miR-4741_stem-loop	SETARIA1#DNA	81.4	43	5	47

	hsa-mir-4742_mi0017380_Homo_sapiens_miR-4742_stem-loop	Polinton-2_DBi#Polinton#Drosophila	80	45	17	60
	hsa-mir-4753_mi0017392_Homo_sapiens_miR-4753_stem-loop	Gypsy-12_RO-I#Gypsy#Rhizopus	80.95	42	5	46
	hsa-mir-4759_mi0017400_Homo_sapiens_miR-4759_stem-loop	DNA-6-N2_DR#DNA	80	40	21	60
	hsa-mir-4763_mi0017404_Homo_sapiens_miR-4763_stem-loop	Gypsy-30_SP-I#Gypsy#Strongylocentrotus	82.93	41	8	46
	hsa-mir-4767_mi0017408_Homo_sapiens_miR-4767_stem-loop	I_Ele22#I#Aedes	78	50	5	53
	hsa-mir-4773-1_mi0017415_Homo_sapiens_miR-4773-1_stem-loop	hAT-3N1A_DR#hAT#Danio	78	50	13	61
	hsa-mir-4773-2_mi0017416_Homo_sapiens_miR-4773-2_stem-loop	hAT-3N1A_DR#hAT#Danio	78	50	18	66
	ppy-mir-4774_mi0020930_Pongo	Copia-11_Mad-I#Copia#Malus	80	40	74	112
	hsa-mir-4777_mi0017421_Homo_sapiens_miR-4777_stem-loop	RF00001;5S_rRNA;AFYH01261552.1/9906-9788	80	40	29	67
	hsa-mir-4785_mi0017430_Homo_sapiens_miR-4785_stem-loop	PIF_Harbinger-1_EmiHux#Harbinger#Emiliania	80	40	30	69
	hsa-mir-4789_mi0017436_Homo_sapiens_miR-4789_stem-loop	ENSPM-6_DR#EnSpm#Danio	76	50	24	73
	hsa-mir-4792_mi0017439_Homo_sapiens_miR-4792_stem-loop	Mariner-3_PGr#Mariner/Tc1#Puccinia	80	40	30	66
	hsa-mir-4795_mi0017442_Homo_sapiens_miR-4795_stem-loop	L2_Ele3#L2#Aedes	82.93	41	49	86
	ppy-mir-4798_mi0020922_Pongo	MuDR-13_VV#MuDR#Vitis	73.68	57	46	102
	hsa-mir-4799_mi0017446_Homo_sapiens_miR-4799_stem-loop	RF00001;5S_rRNA;AGKD01005308.1/23282-23383	82.5	40	18	57
	hsa-mir-4800_mi0017448_Homo_sapiens_miR-4800_stem-loop	DNAREP1_DYak#Helitron#Drosophila	80	40	41	80
	cel-mir-4805_mi0017535_Caenorhabditis	HAT2_CE#nonautonomous	76.27	59	27	85
	nta-MIR482a_mi0020247_Nicotiana	MTIS112A#Harbinger#Medicago	75	56	42	94
	csi-MIR482b_mi0016723_Citrus	Ogre-VP1_LTR#Gypsy#Vicia	80.49	41	29	69
	sly-MIR482c_mi0020251_Solanum_lycopersicum_miR482c_stem-loop	Helitron-2_XT	80	40	26	65
	stu-MIR482c_mi0020244_Solanum_tuberosum_miR482c_stem-loop	Mariner-N1_CGi#Mariner/Tc1#Crassostrea	80.39	51	53	102
	pde-MIR482d_mi0022100_Pinus	RF00001;5S_rRNA;AFSP01122046.1/899-790	80	40	68	105
	stu-MIR482e_mi0020249_Solanum_tuberosum_miR482e_stem-loop	Helitron-2_XT	80	40	26	65
	ggo-mir-483_mi0020738_Gorilla	RMER17D_MM#Non-LTR	80.77	52	60	110
	sko-mir-4841-2_mi0017588_Saccoglossus_kowalevskii_miR-4841-2_stem-loop	Gypsy-49_DWil-I#Gypsy#Drosophila	80	40	2	41
	sko-mir-4845_mi0017592_Saccoglossus_kowalevskii_miR-4845_stem-loop	Kolobok-N1_HM#Kolobok#Hydra	80	40	5	44
	spu-mir-4850_mi0017600_Strongylocentrotus_purpuratus_miR-4850_stem-loop	CR1-1_DBi#CR1#Drosophila	80.49	41	3	43
	bfl-mir-4875b_mi0017639_Branchiostoma	RF01859;Phe_leader;ACCI02000099.1/122515-122398	81.4	43	14	52
	bfl-mir-4877_mi0017643_Branchiostoma	Gypsy-39_Mad-I#Gypsy#Malus	78	50	10	59
	bfl-MIR-4899_mi0017673_Branchiostoma	RF00443;SNORA27;ABEP02003192.1/46934-47070	100	75	12	86
	ssc-mir-491_mi0017993_Sus_scrofa_miR-491_stem-loop	LTR-4_ACar#Gypsy#Anolis	80	40	32	70
	dme-mir-4913_mi0017695_Drosophila	REP_DE#Repetitive	80.43	46	10	51
	dme-mir-4915_mi0017697_Drosophila	EnSpm-1_AA#DNA	82.5	40	68	107
	cel-mir-4926_mi0017713_Caenorhabditis	RF00028;Intron_gpI;JN088933.1/10-304	80	40	10	49
	cel-mir-4927_mi0017714_Caenorhabditis	RF00017;Metazoa_SRP;AADC01086547.1/78371-78109	81.4	43	8	50
	cel-mir-4937_mi0017723_Caenorhabditis	Caenorhabditis_elegans_chrIV.trna7-ArgTCG	80.88	68	10	77
	FBgn0263573|mir-4942_stem_loop_[Source:FlyBase_gene_name;Acc:FBgn0263573	hAT-1_DRh#hAT#Drosophila	89.36	47	531	576
	FBgn0263520|mir-4945_stem_loop_[Source:FlyBase_gene_name;Acc:FBgn0263520	Gypsy-26_SP-I#Gypsy#Strongylocentrotus	80.43	46	532	577
	dme-mir-4950_mi0017736_Drosophila	FERVLTR4d_LTR#ERV1#Takifugu	76.36	55	11	64
	dme-mir-4953_mi0017739_Drosophila	RF00028;Intron_gpI;AF229894.1/10-303	80.49	41	22	62
	dme-mir-4961_mi0017747_Drosophila	RF00261;IRES_L-myc;CABZ01017819.1/7780-7552	75.86	58	21	78

	dme-mir-4962_mi0017748_Drosophila	Copia-70_Mad-I#Copia#Malus	82.5	40	8	47
	FBgn0263519|mir-4964_stem_loop_[Source:FlyBase_gene_name;Acc:FBgn0263519	REX1-7_XT#Rex1#Xenopus	80.43	46	540	582
	dme-mir-4968_mi0017754_Drosophila	TART_DV#Non-LTR	84.75	59	88	146
	mmu-mir-496b_mi0021942_Mus	RF00028;Intron_gpI;EF156677.1/5-549	80.43	46	18	61
	dme-mir-4972_mi0017758_Drosophila	RF00001;5S_rRNA;AFYH01065072.1/14642-14522	81.82	44	22	65
	dme-mir-4973_mi0017759_Drosophila	Ag-Jock-1#Jockey#Anopheles	83.64	55	58	112
	dme-mir-4982_mi0017768_Drosophila	Gypsy-16_DPu-I#Gypsy#Daphnia	76.79	56	47	101
	gma-MIR4993_mi0017859_Glycine	GmCOPIA10_I#Copia#Glycine	91.67	60	11	70
	gma-MIR4997_mi0017863_Glycine	hAT-7_VV#hAT#Vitis	78	50	95	141
	hsa-mir-5003_mi0017869_Homo_sapiens_miR-5003_stem-loop	RF01293;ACA59;AAFR03049540.1/35318-35200	80	45	19	63
	hsa-mir-5007_mi0017874_Homo_sapiens_miR-5007_stem-loop	NeSL-1_C11#NeSL#Caenorhabditis	80.43	46	22	66
	hsa-mir-5008_mi0017876_Homo_sapiens_miR-5008_stem-loop	hAT-1_SP#hAT#Strongylocentrotus	80	40	54	92
	hsa-mir-5009_mi0017877_Homo_sapiens_miR-5009_stem-loop	Tigger4a#Mariner/Tc1#Primates	90	60	1	60
	ath-MIR5015_mi0017883_Arabidopsis	ATCOPIA80_I#Copia#Arabidopsis	80.88	68	1	66
	ath-MIR5024_mi0017894_Arabidopsis	VIHAT2#hAT#Vitis	73.13	67	41	104
	ath-MIR5026_mi0017896_Arabidopsis	ATREP10A#Helitron#Arabidopsis	90	40	56	95
	ath-MIR5027_mi0017897_Arabidopsis	RF00028;Intron_gpI;EU498212.1/1-336	82.93	41	58	98
	gma-MIR5035_mi0017908_Glycine	RF00020;U5;AAQR03090135.1/14702-14819	80.49	41	83	123
	gma-MIR5036_mi0017909_Glycine	EnSpm-1_Mad#EnSpm#Malus	87.5	40	80	118
	hvu-MIR5048a_mi0017935_Hordeum	RF00026;U6;AAEX03014782.1/90676-90783	80	40	53	92
	hvu-MIR5048b_mi0021507_Hordeum	ENSUPMET#EnSpm#Medicago	73.68	57	54	110
	bdi-MIR5058_mi0017948_Brachypodium	RF00017;Metazoa_SRP;AEHL01029426.1/1545-1256	78.85	52	23	72
	bdi-MIR5067_mi0017967_Brachypodium	RF00015;U4;ADDN01001085.1/629437-629602	73.26	86	1	86
	osa-MIR5072_mi0017943_Oryza	GYPSY-B#LTR	90.54	74	4	76
	osa-MIR5074_mi0017950_Oryza	TRUNCATOR#Gypsy#Oryza	88.46	130	7	136
	osa-MIR5078_mi0017966_Oryza	LTR20_EC#ERV1#Equus	82.5	40	276	314
	osa-MIR5079_mi0017969_Oryza	Rehavkus-1N1_HR#Rehavkus#Helobdella	80.49	41	109	149
	osa-MIR5082_mi0017973_Oryza	TguERVK4_LTR1a#ERV2#Estrildidae	77.63	76	31	102
	osa-MIR5083_mi0017974_Oryza	RF00205;snoR41;AACV01002994.1/9029-9124	100	96	115	210
	tae-MIR5086_mi0017949_Triticum_aestivum_miR5086_stem-loop	Gypsy-57_DEl-I#Gypsy#Drosophila	80	40	32	70
	hsa-mir-5088_mi0017977_Homo_sapiens_miR-5088_stem-loop	RF00100;7SK;AANG01556822.1/827-1151	80.49	41	18	58
	hsa-mir-5089_mi0017978_Homo_sapiens_miR-5089_stem-loop	MuDr-1_HM#MuDR#Hydra	82.93	41	9	45
	hsa-mir-5095_mi0018001_Homo_sapiens_miR-5095_stem-loop	RF00017;Metazoa_SRP;ABGA01023696.1/6239-5977	88.1	42	2	43
	hsa-mir-5096_mi0018004_Homo_sapiens_miR-5096_stem-loop	RF00017;Metazoa_SRP;AEHK01003994.1/1954-2235	94.29	70	1	70
	mmu-mir-5097_mi0018005_Mus	Danio_rerio_chr4.trna9193-LysTTT	82.26	62	24	80
	mmu-mir-5098_mi0018006_Mus	RF00100;7SK;CU406998.9/48140-47823	88.1	42	41	82
	hsa-mir-5100_mi0019116_Homo_sapiens_miR-5100_stem-loop	MIR#SINE2/tRNA#Mammalia	71.95	82	31	112
	mmu-mir-5100_mi0018008_Mus	RF00005;tRNA;AAPN01304352.1/33912-33841	80.49	41	14	53
	mmu-mir-5103_mi0018011_Mus	LTR9_FC#ERV1#Felis	85	40	4	41
	mmu-mir-5105_mi0018013_Mus	G2_DM#Jockey#Drosophila	80	40	21	57
	sha-mir-5105_mi0019608_Sarcophilus_harrisii_miR-5105_stem-loop	LSU-rRNA_Hsa#rRNA#Metazoa	83.45	139	1	139

	mmu-mir-5109_mi0018018_Mus	LSU-rRNA_Sce	88.1	42	46	87
	mmu-mir-5112_mi0018021_Mus	RF00005;tRNA;CP000512.1/1920321-1920394	80.49	41	7	45
	mmu-mir-5117_mi0018026_Mus	RF00152;SNORD79;AFTD01011934.1/75286-75203	94.05	84	4	87
	mmu-mir-5118_mi0018027_Mus	B1_Mur4	79.03	62	5	66
	mmu-mir-5124a_mi0018035_Mus	RF00005;tRNA;AAHY01013480.1/3215-3281	80.43	46	22	67
	mmu-mir-5124b_mi0021921_Mus	RF00005;tRNA;AAHX01080829.1/12331-12404	77.78	63	4	66
	mmu-mir-5126_mi0018038_Mus	Ignicoccus_hospitalis_KIN4_I_chr.trna17-ArgCCG	80	40	27	64
	mmu-mir-5128_mi0018040_Mus	RF00015;U4;AAHX01028334.1/65497-65654	80.77	52	33	84
	mmu-mir-5130_mi0018042_Mus	RF00261;IRES_L-myc;CAAK05016015.1/1539-1739	74.32	74	5	76
	osa-MIR5143b_mi0019834_Oryza	RF00410;SNORA2;AAKN02049922.1/49573-49709	76.92	52	138	188
	osa-MIR5144_mi0018056_Oryza	Gypsy-9_DPu-I#Gypsy#Daphnia	80.43	46	165	209
	osa-MIR5149_mi0018064_Oryza	CLOUD-4#DNA	85.14	74	5	78
	osa-MIR5153_mi0018068_Oryza	CLOUD-6#DNA	92.31	208	1	206
	osa-MIR5155_mi0018070_Oryza	CR1-38_HM#CR1#Hydra	75	60	41	95
	osa-MIR5156_mi0018071_Oryza	TUBE2#SINE#Tupaia	80.95	42	264	305
	osa-MIR5159_mi0018075_Oryza	RF00600;SNORA79;AFTD01046684.1/22369-22511	80	40	17	55
	osa-MIR5160_mi0018076_Oryza	ATCOPIA3LTR#Copia#Arabidopsis	81.25	48	154	199
	osa-MIR5162_mi0018078_Oryza	RAGYPSY_LTR_MT#LTR	80.49	41	143	180
	bdi-MIR5172_mi0018141_Brachypodium	RF00062;HgcC;CP002737.1/1665294-1665172	81.4	43	248	290
	bdi-MIR5175a_mi0018144_Brachypodium	RF00015;U4;ADDN01001085.1/629437-629602	80.43	92	23	114
	bdi-MIR5175b_mi0018146_Brachypodium	RF00015;U4;ADDN01001085.1/629437-629602	79.78	89	27	115
	bdi-MIR5182_mi0018155_Brachypodium	VANDAL2N1#MuDR#Arabidopsis	76.79	56	117	169
	hsa-mir-5189_mi0018168_Homo_sapiens_miR-5189_stem-loop	Copia-2_PIT-I#Copia#Phytophthora	77.59	58	6	61
	hsa-mir-5193_mi0018172_Homo_sapiens_miR-5193_stem-loop	DIRS-3_XT	80	45	59	103
	bdi-MIR5199_mi0018231_Brachypodium	TguERVK7_I#ERV2#Estrildidae	80	40	107	143
	mtr-MIR5205a_mi0018240_Medicago	MuDR1_HV#MuDR#Hordeum	80	40	2	41
	mtr-MIR5209_mi0018249_Medicago	CALYPSHAN_I_MT#Gypsy#Medicago	87.39	111	1	111
	mtr-MIR5211_mi0018251_Medicago	RF00261;IRES_L-myc;ABXC01003798.1/22-182	82.93	41	42	80
	mtr-MIR5213_mi0018253_Medicago	RF00100;7SK;ABRT010508409.1/876-561	77.97	59	36	91
	mtr-MIR5216a_mi0018279_Medicago	GYPSY-I_MT#GYPSY-I_MT#Medicago	85.25	61	72	132
	mtr-MIR5216b_mi0018280_Medicago	GYPSY-I_MT#GYPSY-I_MT#Medicago	87.14	70	90	159
	mtr-MIR5218_mi0018282_Medicago	GYPSY-I_MT#GYPSY-I_MT#Medicago	88.57	70	1	70
	mtr-MIR5221_mi0018284_Medicago	Penelope-11_XT#Penelope#Xenopus	81.4	43	15	57
	mtr-MIR5224a_mi0018288_Medicago	GYPSY-I_MT#GYPSY-I_MT#Medicago	85.39	89	24	112
	mtr-MIR5224b_mi0018291_Medicago	GYPSY-I_MT#GYPSY-I_MT#Medicago	82.09	67	22	88
	mtr-MIR5226_mi0018290_Medicago	RF00028;Intron_gpI;AY328211.1/4-489	74.19	62	3	62
	mtr-MIR5227_mi0018292_Medicago	RF00028;Intron_gpI;GU594573.1/17-544	82.93	41	120	158
	mtr-MIR5228_mi0018317_Medicago	RF00230;T-box;AGHE01000197.1/686-410	80.95	42	43	82
	mtr-MIR5232_mi0018322_Medicago	L1-1_EC#L1#Equus	76.36	55	56	104
	mtr-MIR5237_mi0018332_Medicago	RF02081;STnc550;CP001120.1/1514461-1514832	76.92	52	98	149
	mtr-MIR5241c_mi0018342_Medicago	Helitron-1_Mad#Helitron#Malus	80	40	71	110

	mtr-MIR5243_mi0018344_Medicago	Helitron-1_Mad#Helitron#Malus	78.18	55	91	145
	mtr-MIR5248_mi0018349_Medicago	Helitron-1_Mad#Helitron#Malus	86.67	45	70	114
	mtr-MIR5249_mi0018350_Medicago	SHAMUDRA3_MT#MuDR#Medicago	88.89	45	154	198
	mtr-MIR5250_mi0018351_Medicago	DEL_LH#Gypsy#Lilium	76.19	63	17	75
	mtr-MIR5252_mi0018353_Medicago	Helitron-1_Mad#Helitron#Malus	71.93	57	6	62
	mtr-MIR5256_mi0018358_Medicago	RF00028;Intron_gpI;AF482637.1/1-449	76	50	10	59
	mtr-MIR5257_mi0018361_Medicago	CR1-29_HM#CR1#Hydra	76.47	51	30	79
	mtr-MIR5261_mi0018365_Medicago	Helitron-2_Mad#Helitron#Malus	80.95	42	25	66
	mtr-MIR5263_mi0018367_Medicago	MUDRAV_MT#DNA	80.95	63	41	103
	mtr-MIR5264_mi0018376_Medicago	Sola1-11_AP#Sola#Acyrthosiphon	80	40	34	72
	mtr-MIR5265_mi0018377_Medicago	RF00019;Y_RNA;ADFV01132639.1/2388-2482	73.58	53	3	52
	mtr-MIR5268a_mi0018394_Medicago	HERA#Helitron#Medicago	99.11	112	1	112
	mtr-MIR5268b_mi0018395_Medicago	HERA#Helitron#Medicago	99.11	112	1	112
	mtr-MIR5271e_mi0018404_Medicago	HAT-7N1_Mad#hAT#Malus	75	52	1	51
	mtr-MIR5272a_mi0018405_Medicago	MtPH-M-I-Ia#Harbinger#Medicago	94.37	71	5	75
	mtr-MIR5272b_mi0018406_Medicago	MtPH-M-I-Ia#Harbinger#Medicago	90.82	98	1	98
	mtr-MIR5272c_mi0018407_Medicago	MtPH-M-I-Ia#Harbinger#Medicago	89.71	68	7	74
	mtr-MIR5272d_mi0018408_Medicago	MtPH-M-I-Ia#Harbinger#Medicago	89.55	67	8	74
	mtr-MIR5272e_mi0018409_Medicago	MtPH-M-I-Ia#Harbinger#Medicago	89.71	68	7	74
	mtr-MIR5272f_mi0018410_Medicago	MtPH-M-I-Ia#Harbinger#Medicago	95.52	67	1	67
	mtr-MIR5273_mi0018411_Medicago	RAM13_LTR_MT#Copia#Medicago	92.86	70	9	78
	mtr-MIR5279_mi0018421_Medicago	SHATAG_MT#hAT#Medicago	96.43	84	1	84
	bdi-MIR528_mi0018087_Brachypodium	DIRS-8_ACar#DIRS#Anolis	77.36	53	25	76
	mtr-MIR5280_mi0018422_Medicago	ATHPOGON2#Mariner/Tc1#Arabidopsis	80	45	59	100
	mtr-MIR5281a_mi0018423_Medicago	Mariner-2N2_XT#Mariner/Tc1#Xenopus	73.44	64	81	137
	mtr-MIR5281e_mi0018427_Medicago	DNA4-1_AP#DNA	72.73	55	26	80
	mtr-MIR5283_mi0018430_Medicago	RF00230;T-box;CP000413.1/495563-495734	80	40	28	67
	mtr-MIR5286b_mi0018455_Medicago	RF00100;7SK;AABR05075070.1/30899-31258	82.93	41	52	91
	mtr-MIR5287a_mi0018450_Medicago	DNA8-100_AP#DNA	81.25	48	82	129
	mtr-MIR5287b_mi0018451_Medicago	En/Spm1_HV#DNA	80.95	42	48	88
	mtr-MIR5289a_mi0018453_Medicago	MuSHAN_MT#MuDR#Medicago	86.54	52	31	82
	mtr-MIR5289b_mi0018454_Medicago	MuSHAN_MT#MuDR#Medicago	80	45	1	44
	mtr-MIR5291a_mi0018457_Medicago	RF00028;Intron_gpI;AY098639.1/6-303	83.33	42	15	55
	mtr-MIR5291b_mi0018458_Medicago	RF00028;Intron_gpI;AY098639.1/6-303	80.95	42	15	55
	mtr-MIR5291c_mi0018459_Medicago	RF00028;Intron_gpI;AY098639.1/6-303	80.95	42	15	55
	mtr-MIR5292a_mi0018460_Medicago	Ogre-PT2_LTR#Gypsy#Populus	82.5	40	12	50
	mtr-MIR5298a_mi0018472_Medicago	ShaMUDRAV2_MT#MuDR#Medicago	91.11	45	41	85
	mtr-MIR5298b_mi0018473_Medicago	ShaMUDRAV2_MT#MuDR#Medicago	73.42	79	1	68
	mtr-MIR5298c_mi0018474_Medicago	ShaMUDRAV2_MT#MuDR#Medicago	91.11	45	39	83
	mtr-MIR5298d_mi0018475_Medicago	ShaMUDRAV2_MT#MuDR#Medicago	84.06	69	1	69
	mtr-MIR5299_mi0018476_Medicago	METMAR1#Mariner/Tc1#Medicago	72.06	68	16	82

	mtr-MIR530_mi0019701_Medicago	ATREP19#ATREP19#Arabidopsis	83.72	43	65	107
	sly-MIR5300_mi0018477_Solanum_lycopersicum_miR5300_stem-loop	Gypsy-35_BD-I#Gypsy#Brachypodium	80.95	42	67	108
	sly-MIR5302_mi0018479_Solanum_lycopersicum_miR5302_stem-loop	RF00017;Metazoa_SRP;ACFV01039045.1/11053-10792	88.1	42	101	142
	sly-MIR5304_mi0018481_Solanum_lycopersicum_miR5304_stem-loop	RTE-1_STu#RTE#Solanum	74.19	62	64	125
	gma-MIR530a_mi0017852_Glycine	RF00028;Intron_gpI;AY015402.1/1-534	80.77	52	54	104
	isc-mir-5310_mi0018490_Ixodes	L1-1_XT#L1#Xenopus	80.43	46	42	87
	rmi-mir-5322_mi0018504_Rhipicephalus_microplus_miR-5322_stem-loop	Gypsy-2_CP-I#Gypsy#Carica	80.95	42	64	104
	rmi-mir-5329_mi0018511_Rhipicephalus_microplus_miR-5329_stem-loop	Gypsy14-NVi_I#Gypsy#Nasonia	75	56	20	69
	osa-MIR5337a_mi0018519_Oryza	RF00028;Intron_gpI;AF135082.1/5-278	76.47	51	99	149
	csi-MIR535_mi0016726_Citrus	HAL1C#L1#Homo	80.49	41	33	73
	gma-MIR5377_mi0018636_Glycine	RF00545;snopsi18S-841;AAGW02022956.1/10408-10267	80.95	42	50	90
	gma-MIR5379_mi0018638_Glycine	ERVB4_5-I_RN#Endogenous	77.97	59	55	112
	gma-MIR5380a_mi0018639_Glycine	RF00028;Intron_gpI;AY306705.1/1-262	75.47	53	25	77
	sbi-MIR5381_mi0018688_Sorghum_bicolor_miR5381_stem-loop	MuDR-3_SBi#MuDR#Sorghum	85.45	55	16	70
	sbi-MIR5384_mi0018691_Sorghum_bicolor_miR5384_stem-loop	Copia-129_SB-I#Copia#Sorghum	95.18	83	14	95
	sbi-MIR5387a_mi0018694_Sorghum_bicolor_miR5387_stem-loop	En/Spm1_HV#DNA	81.82	44	65	108
	sbi-MIR5387b_mi0019104_Sorghum_bicolor_miR5387b_stem-loop	EnSpm2_SB#EnSpm#Sorghum	88.64	44	66	109
	sbi-MIR5388_mi0018695_Sorghum_bicolor_miR5388_stem-loop	EnSpm-N37_SBi#EnSpm#Sorghum	79.63	54	35	88
	aca-mir-5401_mi0018903_Anolis	RF02164;PVT1_1;ABRQ01213433.1/1320-1511	83.33	42	1	42
	aca-mir-5420_mi0018923_Anolis	RF01413;AAVX01631682.1/82-171	81.13	53	10	62
	aca-mir-5432_mi0018935_Anolis	Equus_caballus_chr1.trna90-TyrGTA	80	45	6	50
	oar-mir-544_mi0016943_Ovis	MER5A#Repetitive	82.69	52	50	101
	aca-mir-5443_mi0018946_Anolis	Eulor7#Transposable	72	75	6	80
	ssc-mir-545_mi0017994_Sus_scrofa_miR-545_stem-loop	RF00409;SNORA7;AAPN01322891.1/3728-3874	82.98	47	2	47
	aca-mir-5453_mi0018958_Anolis	DNA-6_ACar#DNA	85.37	41	1	39
	pti-MIR5473_mi0018991_Phaeodactylum	RF00100;7SK;ABRT010957304.1/516-163	80.49	41	58	95
	pti-MIR5476_mi0018994_Phaeodactylum	Gypsy15-I_CR#Gypsy#Chlamydomonas	75.47	53	19	71
	pti-MIR5477_mi0018995_Phaeodactylum	MuDR-4_Mad#MuDR#Malus	80	40	56	95
	osa-MIR5489_mi0019007_Oryza	RF02105;DLEU2_1;AAHX01083320.1/7095-7206	80	40	128	166
	ggo-mir-548a_mi0020826_Gorilla	RF00017;Metazoa_SRP;AGCE01058716.1/2270-2496	80.95	84	13	96
	ppy-mir-548a_mi0020921_Pongo	RF00017;Metazoa_SRP;AGCE01058716.1/2270-2496	79.79	94	13	106
	hsa-mir-548aa-1_mi0016689_Homo_sapiens_miR-548aa-1_stem-loop	MADE1#Mariner/Tc1#Homo	85.14	74	12	85
	hsa-mir-548aa-2_mi0016690_Homo_sapiens_miR-548aa-2_stem-loop	MADE1#Mariner/Tc1#Homo	87.5	80	6	85
	hsa-mir-548ab_mi0016752_Homo_sapiens_miR-548ab_stem-loop	MADE1#Mariner/Tc1#Homo	78.05	82	3	84
	hsa-mir-548ac_mi0016762_Homo_sapiens_miR-548ac_stem-loop	MARINER1#Mariner/Tc1#Eutheria	90	40	45	84
	hsa-mir-548ad_mi0016770_Homo_sapiens_miR-548ad_stem-loop	MADE1#Mariner/Tc1#Homo	82.93	82	4	79
	hsa-mir-548ae-1_mi0016779_Homo_sapiens_miR-548ae-1_stem-loop	MADE1#Mariner/Tc1#Homo	87.23	47	19	61
	hsa-mir-548ae-2_mi0016780_Homo_sapiens_miR-548ae-2_stem-loop	MADE1#Mariner/Tc1#Homo	85	60	2	61
	hsa-mir-548ag-1_mi0016793_Homo_sapiens_miR-548ag-1_stem-loop	MADE1#Mariner/Tc1#Homo	81.82	66	1	66
	hsa-mir-548ag-2_mi0016794_Homo_sapiens_miR-548ag-2_stem-loop	MADE1#Mariner/Tc1#Homo	87.1	62	1	62
	hsa-mir-548ah_mi0016796_Homo_sapiens_miR-548ah_stem-loop	MADE1#Mariner/Tc1#Homo	83.33	72	1	72

	hsa-mir-548ai_mi0016813_Homo_sapiens_miR-548ai_stem-loop	MADE1#Mariner/Tc1#Homo	84.34	83	4	85
	hsa-mir-548aj-1_mi0016814_Homo_sapiens_miR-548aj-1_stem-loop	MADE1#Mariner/Tc1#Homo	88.89	63	2	64
	hsa-mir-548aj-2_mi0016815_Homo_sapiens_miR-548aj-2_stem-loop	MARINER1#Mariner/Tc1#Eutheria	87.5	40	47	86
	hsa-mir-548ak_mi0016840_Homo_sapiens_miR-548ak_stem-loop	MADE1#Mariner/Tc1#Homo	82.54	63	1	56
	hsa-mir-548al_mi0016851_Homo_sapiens_miR-548al_stem-loop	MADE1#Mariner/Tc1#Homo	89.36	47	46	92
	hsa-mir-548am_mi0016904_Homo_sapiens_miR-548am_stem-loop	MADE1#Mariner/Tc1#Homo	90.14	71	2	72
	hsa-mir-548an_mi0016907_Homo_sapiens_miR-548an_stem-loop	MADE1#Mariner/Tc1#Homo	86.25	80	3	82
	hsa-mir-548ao_mi0017871_Homo_sapiens_miR-548ao_stem-loop	MADE1#Mariner/Tc1#Homo	83.75	80	9	88
	hsa-mir-548ap_mi0017875_Homo_sapiens_miR-548ap_stem-loop	MADE1#Mariner/Tc1#Homo	88.06	67	10	76
	hsa-mir-548aq_mi0019130_Homo_sapiens_miR-548aq_stem-loop	MADE1#Mariner/Tc1#Homo	84.21	57	2	58
	hsa-mir-548ar_mi0019131_Homo_sapiens_miR-548ar_stem-loop	MADE1#Mariner/Tc1#Homo	81.03	58	1	57
	hsa-mir-548as_mi0019132_Homo_sapiens_miR-548as_stem-loop	MADE1#Mariner/Tc1#Homo	86.27	51	1	51
	hsa-mir-548at_mi0019137_Homo_sapiens_miR-548at_stem-loop	MADE1#Mariner/Tc1#Homo	80.7	57	1	57
	hsa-mir-548au_mi0019145_Homo_sapiens_miR-548au_stem-loop	MADE1#Mariner/Tc1#Homo	77.42	62	1	53
	hsa-mir-548av_mi0019152_Homo_sapiens_miR-548av_stem-loop	MADE1#Mariner/Tc1#Homo	78.13	64	1	62
	hsa-mir-548aw_mi0019283_Homo_sapiens_miR-548aw_stem-loop	MADE1#Mariner/Tc1#Homo	85	40	1	40
	hsa-mir-548ax_mi0019286_Homo_sapiens_miR-548ax_stem-loop	MADE1#Mariner/Tc1#Homo	91.67	72	3	73
	hsa-mir-548ay_mi0022210_Homo_sapiens_miR-548ay_stem-loop	MADE1#Mariner/Tc1#Homo	86.08	79	17	94
	hsa-mir-548az_mi0022212_Homo_sapiens_miR-548az_stem-loop	MARINER1#Mariner/Tc1#Eutheria	90	40	49	88
	ggo-mir-548b_mi0020808_Gorilla	RF00017;Metazoa_SRP;AGCE01058716.1/2270-2496	77.55	98	14	110
	ggo-mir-548c_mi0020814_Gorilla	MARINER1#Mariner/Tc1#Eutheria	87.5	40	48	87
	ppy-mir-548c_mi0020927_Pongo	MARINER1#Mariner/Tc1#Eutheria	87.5	40	48	87
	ggo-mir-548d_mi0020836_Gorilla	RF00017;Metazoa_SRP;AGCE01058716.1/2270-2496	82.76	87	6	92
	ggo-mir-548e_mi0020824_Gorilla	RF00017;Metazoa_SRP;AGCE01058716.1/2270-2496	80.46	87	20	104
	ppy-mir-548e_mi0020909_Pongo	RF00017;Metazoa_SRP;AGCE01058716.1/2270-2496	74.73	91	19	105
	ptr-mir-548e_mi0020604_Pan_troglodytes_miR-548e_stem-loop	MADE1#Mariner/Tc1#Homo	82.05	78	22	99
	ggo-mir-548f_mi0020842_Gorilla	RF00017;Metazoa_SRP;AGCE01058716.1/2270-2496	76.47	85	7	90
	ppy-mir-548f_mi0020926_Pongo	RF00017;Metazoa_SRP;AGCE01058716.1/2270-2496	79.55	88	20	107
	ppy-mir-548h_mi0020925_Pongo	RF00017;Metazoa_SRP;AGCE01058716.1/2270-2496	79.31	87	16	102
	hsa-mir-548h-5_mi0016751_Homo_sapiens_miR-548h-5_stem-loop	MADE1#Mariner/Tc1#Homo	83.05	59	2	60
	ptr-mir-548o_mi0020601_Pan_troglodytes_miR-548o_stem-loop	MARINER1#Mariner/Tc1#Eutheria	92.5	40	21	60
	hsa-mir-548o-2_mi0016746_Homo_sapiens_miR-548o-2_stem-loop	MADE1#Mariner/Tc1#Homo	91.3	69	1	69
	hsa-mir-548x-2_mi0016833_Homo_sapiens_miR-548x-2_stem-loop	MARINER1#Mariner/Tc1#Eutheria	90	40	11	50
	hsa-mir-548y_mi0016595_Homo_sapiens_miR-548y_stem-loop	MADE1#Mariner/Tc1#Homo	84.81	79	11	89
	hsa-mir-548z_mi0016688_Homo_sapiens_miR-548z_stem-loop	MADE1#Mariner/Tc1#Homo	86.84	76	10	85
	osa-MIR5493_mi0019011_Oryza	7SL	81.4	43	210	252
	osa-MIR5498_mi0019016_Oryza	RIRE3_I#Gypsy#Oryza	71.93	57	89	145
	osa-MIR5502_mi0019020_Oryza	RETRO2_I#Gypsy#Oryza	89.89	89	1	88
	osa-MIR5508_mi0019026_Oryza	RTE-1_AC_1#RTE#Anolis	81.4	43	97	139
	osa-MIR5509_mi0019027_Oryza	RF01705;Flavo-1;AEIH01000082.1/16535-16462	80.49	41	139	178
	osa-MIR5512a_mi0019030_Oryza	RF00028;Intron_gpI;FJ404989.1/4-531	75.41	61	4	64

	osa-MIR5512b_mi0021599_Oryza	RF00028;Intron_gpI;FJ404989.1/4-531	75.41	61	72	132
	osa-MIR5526_mi0019046_Oryza	CACTA-B#DNA	77.97	59	126	182
	osa-MIR5529_mi0019049_Oryza	L1-25_XT#L1#Xenopus	75.93	54	2	55
	osa-MIR5535_mi0019056_Oryza	L1-24C_ACar#L1#Anolis	82.93	41	79	119
	osa-MIR5544_mi0019065_Oryza	Copia13-VV_I#Copia#Vitis	80	40	141	179
	cel-mir-5545_mi0019066_Caenorhabditis	CELE14A#DNA	86.67	45	59	102
	cel-mir-5548_mi0019069_Caenorhabditis	MARINER4_CB#Mariner/Tc1#Caenorhabditis	84.31	51	60	110
	cel-mir-5549_mi0019070_Caenorhabditis	hAT-N7_ACar#hAT#Anolis	80.95	42	65	106
	mtr-MIR5557_mi0019083_Medicago	Gypsy-112_AA-I#Gypsy#Aedes	80	40	109	145
	mtr-MIR5561_mi0019089_Medicago	RF00020;U5;AAAB01008966.1/3279340-3279458	82.5	40	15	53
	sbi-MIR5565a_mi0019107_Sorghum_bicolor_miR5565a_stem-loop	Helitron-N11_SBi#Helitron#Sorghum	70.27	111	1	109
	sbi-MIR5565b_mi0019108_Sorghum_bicolor_miR5565b_stem-loop	Helitron-N11_SBi#Helitron#Sorghum	70.27	111	1	109
	sbi-MIR5565c_mi0019102_Sorghum_bicolor_miR5565c_stem-loop	Helitron-N11_SBi#Helitron#Sorghum	70.37	108	3	105
	sbi-MIR5565d_mi0019109_Sorghum_bicolor_miR5565d_stem-loop	Helitron-N11_SBi#Helitron#Sorghum	72.9	107	1	105
	sbi-MIR5565e_mi0019098_Sorghum_bicolor_miR5565e_stem-loop	Helitron-N11_SBi#Helitron#Sorghum	78.1	137	16	150
	sbi-MIR5565g_mi0023511_Sorghum_bicolor_miR5565g_stem-loop	Helitron-N11_SBi#Helitron#Sorghum	72.73	66	1	66
	sbi-MIR5566_mi0019100_Sorghum_bicolor_miR5566_stem-loop		96.08	51	51	101
	sbi-MIR5567_mi0019101_Sorghum_bicolor_miR5567_stem-loop	CANDYSTRIPE1#EnSpm#Sorghum	85.85	106	107	212
	sbi-MIR5568a_mi0019103_Sorghum_bicolor_miR5568_stem-loop	STOWAWAY1_SB#DNA	83.93	56	7	62
	sbi-MIR5568b_mi0023512_Sorghum_bicolor_miR5568b_stem-loop	STOWAWAY1_SB#DNA	87.1	62	30	91
	sbi-MIR5568c_mi0023513_Sorghum_bicolor_miR5568c_stem-loop	STOWAWAY1_SB#DNA	85	60	93	152
	sbi-MIR5568d_mi0023524_Sorghum_bicolor_miR5568d_stem-loop	Helitron-N13_SBi#Helitron#Sorghum	85.71	63	12	74
	sbi-MIR5568e_mi0023532_Sorghum_bicolor_miR5568e_stem-loop	STOWAWAY1_SB#DNA	87.8	41	11	51
	sbi-MIR5568f_mi0023534_Sorghum_bicolor_miR5568f_stem-loop	Helitron-N13_SBi#Helitron#Sorghum	87.8	41	12	52
	sbi-MIR5568g_mi0023506_Sorghum_bicolor_miR5568g_stem-loop	Helitron-N13_SBi#Helitron#Sorghum	81.65	109	44	152
	sbi-MIR5569_mi0019105_Sorghum_bicolor_miR5569_stem-loop	MUDR1N_SB#MuDR#Sorghum	87.85	107	108	214
	rgl-MIR5576_mi0019121_Rehmannia_glutinosa_miR5576_stem-loop	CR1-2_IS#CR1#Ixodes	76	50	39	86
	hsa-mir-5588_mi0019147_Homo_sapiens_miR-5588_stem-loop	Copia-47_BG-I#Copia#Blumeria	85	40	7	44
	hsa-mir-5589_mi0019148_Homo_sapiens_miR-5589_stem-loop	MER91A#DNA	84.78	46	6	51
	cin-mir-5598_mi0019162_Ciona	unannotated_repeat_36	96.61	59	1	59
	cin-mir-5609_mi0019175_Ciona	unannotated_repeat_36	91.3	46	9	54
	ENSMUSG00000093498|mmu-mir-5615-2	B2#SINE#Mus	91.6	119	559	677
	mmu-mir-5622_mi0019190_Mus	RF00017;Metazoa_SRP;ABGA01059849.1/6431-6152	81.4	43	18	60
	ath-MIR5628_mi0019199_Arabidopsis	COP10_I_MT#Copia#Medicago	82.5	40	47	84
	ath-MIR5629_mi0019200_Arabidopsis	ATMU2#MuDR#Arabidopsis	89.09	55	1	55
	ath-MIR5631_mi0019202_Arabidopsis	hAT-N4_AP#hAT#Acyrthosiphon	78.85	52	73	123
	ath-MIR5633_mi0019205_Arabidopsis	ATCOPIA28_I#Copia#Arabidopsis	82.5	80	278	356
	ath-MIR5635a_mi0019207_Arabidopsis	ATMU3N1#MuDR#Arabidopsis	97.19	427	16	442
	ath-MIR5635b_mi0019229_Arabidopsis	ATMU3N1#MuDR#Arabidopsis	96.7	182	1	182
	ath-MIR5635c_mi0019239_Arabidopsis	ATMU3N1#MuDR#Arabidopsis	97.7	174	1	174
	ath-MIR5635d_mi0019217_Arabidopsis	ATMU3N1#MuDR#Arabidopsis	97.47	237	1	237

	ath-MIR5637_mi0019209_Arabidopsis	MUDRAVI1#MuDR#Vitis	78	50	23	71
	ath-MIR5638a_mi0019210_Arabidopsis	ATHAT1#hAT#Arabidopsis	77.19	57	206	262
	ath-MIR5638b_mi0019219_Arabidopsis	ATHAT1#hAT#Arabidopsis	77.97	59	211	269
	ath-MIR5641_mi0019214_Arabidopsis	ATMU6#MuDR#Arabidopsis	83.33	42	449	490
	ath-MIR5642b_mi0019246_Arabidopsis	RF00410;SNORA2;AERX01043863.2/28505-28640	83.33	42	141	181
	ath-MIR5643a_mi0019216_Arabidopsis	COLAR12#Satellite#Arabidopsis	86.59	82	1	82
	ath-MIR5643b_mi0019256_Arabidopsis	COLAR12#Satellite#Arabidopsis	87.8	82	1	82
	ath-MIR5645a_mi0019220_Arabidopsis	ATMU10#MuDR#Arabidopsis	85.71	70	376	445
	ath-MIR5645b_mi0019221_Arabidopsis	ATMU10#MuDR#Arabidopsis	84.78	92	403	494
	ath-MIR5645c_mi0019225_Arabidopsis	ATMU10#MuDR#Arabidopsis	85.23	88	9	94
	ath-MIR5645d_mi0019244_Arabidopsis	ATMU10#MuDR#Arabidopsis	87.27	55	8	62
	ath-MIR5645e_mi0019257_Arabidopsis	ATMU10#MuDR#Arabidopsis	85.19	54	1	54
	ath-MIR5645f_mi0019252_Arabidopsis	ATMU10#MuDR#Arabidopsis	83.16	95	2	96
	ath-MIR5646_mi0019222_Arabidopsis	AtSB4#SINE#Arabidopsis	85.51	69	5	70
	ath-MIR5649a_mi0019226_Arabidopsis	MUMT#MuDR#Medicago	76.79	56	29	82
	ath-MIR5649b_mi0019248_Arabidopsis	MUMT#MuDR#Medicago	76.79	56	20	73
	ath-MIR5651_mi0019233_Arabidopsis	ATHPOGO#Mariner/Tc1#Arabidopsis	83.72	43	60	101
	ath-MIR5653_mi0019236_Arabidopsis	SIMPLEHAT2#MSAT#Arabidopsis	96.15	78	7	84
	ath-MIR5655_mi0019238_Arabidopsis	Outcast#Outcast#Anopheles	85	40	352	390
	ath-MIR5660_mi0019245_Arabidopsis	ATCOPIA95LTR#Copia#Arabidopsis	94.94	79	85	163
	ath-MIR5665_mi0019254_Arabidopsis	VANDAL18NB#MuDR#Arabidopsis	92.01	463	8	470
	gma-MIR5670_mi0019264_Glycine	Copia-51_VV-I#Copia#Vitis	80	40	41	80
	gma-MIR5676_mi0019274_Glycine	GmOgre_I#Gypsy#Glycine	74.73	91	1	91
	gma-MIR5678_mi0019278_Glycine	RF00105;SNORD115;ABRT010427243.1/3655-3577	80	55	177	231
	hsa-mir-5683_mi0019284_Homo_sapiens_miR-5683_stem-loop	MER5A1#hAT#Eutheria	72.73	77	1	76
	hsa-mir-5684_mi0019285_Homo_sapiens_miR-5684_stem-loop	RF00017;Metazoa_SRP;ABSL01067313.1/14396-14623	81.25	64	2	65
	hsa-mir-5686_mi0019290_Homo_sapiens_miR-5686_stem-loop	TACAA@1	89.09	55	24	78
	hsa-mir-5689_mi0019294_Homo_sapiens_miR-5689_stem-loop	RF00017;Metazoa_SRP;AEHK01157325.1/14634-14349	86.05	43	4	46
	hsa-mir-5692c-1_mi0019288_Homo_sapiens_miR-5692c-1_stem-loop	SATR2#SAT#Homo	83.93	56	16	71
	hsa-mir-5692c-2_mi0019289_Homo_sapiens_miR-5692c-2_stem-loop	SATR2#SAT#Homo	81.33	75	2	76
	hsa-mir-5695_mi0019302_Homo_sapiens_miR-5695_stem-loop	MER39B#LTR#Homo	92	50	1	50
	hsa-mir-5697_mi0019304_Homo_sapiens_miR-5697_stem-loop	HAL1#L1#Eutheria	80.95	42	1	42
	hsa-mir-5699_mi0019306_Homo_sapiens_miR-5699_stem-loop	RF00100;7SK;AANU01195481.1/38752-39111	80.49	41	32	72
	hsa-mir-5701-1_mi0019308_Homo_sapiens_miR-5701-1_stem-loop	REP522#Satellite#Primates	87.8	82	1	82
	hsa-mir-5701-2_mi0019593_Homo_sapiens_miR-5701-2_stem-loop	REP522#Satellite#Primates	87.8	82	1	82
	hsa-mir-5704_mi0019312_Homo_sapiens_miR-5704_stem-loop	RF02005;group-II-D1D4-6;AASZ01002480.1/2141-2390	82.93	41	8	48
	hsa-mir-5706_mi0019314_Homo_sapiens_miR-5706_stem-loop	TIGGER1#Mariner/Tc1#Homo	84.91	53	1	53
	hsa-mir-5708_mi0019316_Homo_sapiens_miR-5708_stem-loop	RF00017;Metazoa_SRP;ADFV01010003.1/889-642	86.36	44	43	85
	bra-MIR5714_mi0019325_Brassica	RF00017;Metazoa_SRP;ABQO011127683.1/871-570	80.95	42	86	127
	bra-MIR5718_mi0019330_Brassica	RF00017;Metazoa_SRP;AADC01146307.1/37184-36893	76.27	59	3	60
	bra-MIR5719_mi0019331_Brassica	Helitron-2_Mad#Helitron#Malus	81.82	44	30	73

	bra-MIR5721_mi0019333_Brassica	Ginger2-1_AP#Ginger2/TDD#Acyrthosiphon	76.92	52	100	151
	tur-mir-5736b_mi0019385_Tetranychus_urticae_miR-5736b_stem-loop	RF00100;7SK;AGTP01128439.1/12467-12188	78	50	52	100
	tur-mir-5738_mi0019405_Tetranychus_urticae_miR-5738_stem-loop	Ginger1-1_AP#Ginger1#Acyrthosiphon	81.82	44	45	87
	bta-mir-574_mi0021122_Bos	RF00026;U6;AFTD01127534.1/38140-38008	87.5	40	22	61
	ggo-mir-574_mi0020709_Gorilla	Novosib-6_CR#Novosib#Chlamydomonas	85	40	20	59
	mtr-MIR5741a_mi0019663_Medicago	MuDRASH3_MT#MuDR#Medicago	83.33	42	12	53
	mtr-MIR5741c_mi0019684_Medicago	MuDRASH3_MT#MuDR#Medicago	75.93	54	11	61
	mtr-MIR5741d_mi0019692_Medicago	MuDRASH3_MT#MuDR#Medicago	72.09	86	134	213
	mtr-MIR5741e_mi0019700_Medicago	MuDRASH3_MT#MuDR#Medicago	80.36	56	183	236
	mtr-MIR5742_mi0019665_Medicago	EnSpm-1_AA#DNA	86.05	43	62	103
	mtr-MIR5744_mi0019669_Medicago	GYPSHAN_I_MT#Gypsy#Medicago	88.75	80	11	89
	mtr-MIR5747_mi0019672_Medicago	RF00028;Intron_gpI;DQ026615.1/1-335	80	40	3	39
	mtr-MIR5748_mi0019673_Medicago	RF00420;SNORA61;AAIY01100736.1/1057-1178	75.47	53	1	51
	mtr-MIR5750_mi0019675_Medicago	CR1-73_HM#CR1#Hydra	76.47	51	18	65
	mtr-MIR5751_mi0019676_Medicago	MUMETRAV#MuDR#Medicago	80	40	189	228
	mtr-MIR5752a_mi0019678_Medicago	MUDSOLD1#MuDR#Solanum	72.41	58	38	95
	mtr-MIR5752b_mi0019679_Medicago	MUDSOLD1#MuDR#Solanum	72.41	58	38	95
	mtr-MIR5753_mi0019680_Medicago	RF00028;Intron_gpI;JN001439.1/1-383	80	40	46	85
	mtr-MIR5758_mi0019689_Medicago	EnSpm-6_VV#EnSpm#Vitis	80.49	41	134	173
	gma-MIR5764_mi0019706_Glycine	GmOgre_I#Gypsy#Glycine	85.11	94	52	145
	gma-MIR5771_mi0019716_Glycine	GmCOPIA10_LTR#Copia#Glycine	87.93	58	24	81
	gma-MIR5773_mi0019720_Glycine	L1MED_5#LINE1	83.33	42	125	166
	gma-MIR5784_mi0019735_Glycine	RF00100;7SK;ACBE01340887.1/217-503	80	45	38	80
	osa-MIR5790_mi0019802_Oryza	GYPSY-A#Gypsy#Oryza	89.87	79	5	83
	osa-MIR5795_mi0019808_Oryza	ENSPM2_OS#ENSPM2_OS#Oryza	98.6	215	5	219
	osa-MIR5804_mi0019820_Oryza	L1-3_CR#L1#Chlamydomonas	82.5	40	14	51
	osa-MIR5812_mi0019829_Oryza	RF00001;5S_rRNA;AEYP01065049.1/14612-14495	80	45	14	58
	osa-MIR5816_mi0019833_Oryza	SEVERIN-2#Helitron#Oryza	93.02	43	39	81
	cgr-mir-582_mi0020541_Cricetulus	L3#Repetitive	82.93	41	8	48
	ssc-mir-582_mi0022154_Sus_scrofa_miR-582_stem-loop	L3#CR1#Homo	80.49	41	5	45
	osa-MIR5824_mi0019842_Oryza	CANDYSTRIPE1#EnSpm#Sorghum	73.19	138	34	170
	osa-MIR5825_mi0019844_Oryza	CR1-14_HM#CR1#Hydra	81.82	44	124	164
	osa-MIR5826_mi0019845_Oryza	HAT-N12_Mad#hAT#Malus	77.94	68	84	147
	osa-MIR5830_mi0019849_Oryza	RF00017;Metazoa_SRP;AACZ03067153.1/424-136	80.43	46	52	96
	osa-MIR5831_mi0019850_Oryza	GOLEM#DNA	76.56	64	8	70
	osa-MIR5835_mi0019855_Oryza	COP_I_MT#Copia#Medicago	78.43	51	80	128
	ggo-mir-584_mi0020674_Gorilla	RF00100;7SK;AAGU03033404.1/31543-31857	76.47	51	6	56
	bma-mir-5854_mi0023452_Brugia	RF00023;tmRNA;BA000021.3/122211-122575	80.43	46	12	57
	bma-mir-5855_mi0023453_Brugia	RF00028;Intron_gpI;DQ176713.1/9-310	80	40	17	56
	bma-mir-5876_mi0023485_Brugia	MuDR1_TP#MuDR#Thalassiosira	80.49	41	1	41
	hco-mir-5925_mi0020075_Haemonchus	RF00029;Intron_gpII;ACYM01050099.1/58740-58679	76	50	14	63

	hco-mir-5940_mi0020104_Haemonchus	Ovis_aries_chr22.trna562-GlyCCC	82.93	41	48	87
	hco-mir-5960_mi0020132_Haemonchus	RF01656;ceN72-3_ceN74-2;ABEG02001764.1/101374-10145	86.57	67	27	92
	hco-mir-5972_mi0020147_Haemonchus	RF00028;Intron_gpI;HQ687204.1/3870-4408	88.14	59	46	104
	hco-mir-5973_mi0020148_Haemonchus	contortus	71.43	98	1	98
	hco-mir-5978_mi0020156_Haemonchus	RF01607;ceN100;AM051045.1/1-130	80	55	65	118
	hco-mir-5991_mi0020169_Haemonchus	Copia2-I_Dpse#Copia#Drosophila	80	40	1	40
	spu-mir-5993_mi0020186_Strongylocentrotus_purpuratus_miR-5993_stem-loop	DIRS-5_SP#DIRS#Strongylocentrotus	88.1	42	1	42
	spu-mir-5994_mi0020187_Strongylocentrotus_purpuratus_miR-5994_stem-loop	Gypsy-10_DPer-I#Gypsy#Drosophila	77.78	63	27	87
	ath-MIR5999_mi0020196_Arabidopsis	RF00261;IRES_L-myc;ABRM01031969.1/8513-8312	73.33	75	47	121
	tca-mir-6007_mi0020218_Tribolium_castaneum_miR-6007_stem-loop	MUDR4_CB#MuDR#Caenorhabditis	80	40	10	49
	tca-mir-6010_mi0020221_Tribolium_castaneum_miR-6010_stem-loop	hAT-9N1_XT	75	56	2	56
	tca-mir-6014_mi0020225_Tribolium_castaneum_miR-6014_stem-loop	Copia-19_GM-I#Copia#Glycine	82.5	40	5	44
	tca-mir-6018_mi0020229_Tribolium_castaneum_miR-6018_stem-loop	STALKER2_I#LTR	78	50	39	87
	stu-MIR6024_mi0020241_Solanum_tuberosum_miR6024_stem-loop	Mariner1_AG#Mariner/Tc1#Anopheles	80	40	60	99
	nta-MIR6025e_mi0021423_Nicotiana	RF00004;U2;AAWZ02023896.1/36044-36243	100	45	85	129
	sly-MIR6026_mi0020257_Solanum_lycopersicum_miR6026_stem-loop	piggyBac-2_XT#piggyBac#Xenopus	77.36	53	66	116
	stu-MIR6026_mi0020256_Solanum_tuberosum_miR6026_stem-loop	Mariner-5_PGr#Mariner/Tc1#Puccinia	83.72	43	100	142
	sly-MIR6027_mi0020258_Solanum_lycopersicum_miR6027_stem-loop	Gypsy48-I_DR#Gypsy#Danio	74.55	55	63	117
	ame-mir-6041_mi0020310_Apis	Crypton-1_NVi#Crypton#Nasonia	80	50	3	51
	ame-mir-6044_mi0020313_Apis	Loxodonta_africana_scaffold_34.trna610-CysGCA	80.49	41	35	75
	ame-mir-6045_mi0020314_Apis	CR1-K4_Tgu#CR1#Estrildidae	80.95	42	36	76
	ame-mir-6052_mi0020323_Apis	RF00023;tmRNA;AACY020200952.1/2576-2178	77.36	53	19	70
	ame-mir-6058_mi0020329_Apis	L1-44_XT#L1#Xenopus	80.49	41	26	65
	hsa-mir-6069_mi0020346_Homo_sapiens_miR-6069_stem-loop	RF00009;RNaseP_nuc;AFSB01181511.1/3070-3356	80.95	42	31	71
	hsa-mir-6070_mi0020347_Homo_sapiens_miR-6070_stem-loop	Copia-33_BG-I#Copia#Blumeria	80	40	43	81
	hsa-mir-6076_mi0020353_Homo_sapiens_miR-6076_stem-loop	RF00409;SNORA7;AAPN01147135.1/2294-2427	80	40	31	69
	hsa-mir-6087_mi0020364_Homo_sapiens_miR-6087_stem-loop	LSU-rRNA_Hsa#rRNA#Metazoa	97.96	49	1	49
	hsa-mir-6089-1_mi0020366_Homo_sapiens_miR-6089-1_stem-loop	RF00174;Cobalamin;AACY020293185.1/2643-2415	72.73	55	2	56
	hsa-mir-6089-2_mi0023563_Homo_sapiens_miR-6089-2_stem-loop	RF00174;Cobalamin;AACY020293185.1/2643-2415	72.73	55	2	56
	hsa-mir-6090_mi0020367_Homo_sapiens_miR-6090_stem-loop	RF00311;snoZ188;AC078839.4/159694-159817	80.49	41	1	40
	mse-mir-6101_mi0021063_Manduca	RF00100;7SK;ABRO01062249.1/286-10	80.36	56	15	69
	bta-mir-6122_mi0021140_Bos	RF00409;SNORA7;AAPN01319385.1/16905-16769	75	56	3	58
	hsa-mir-6125_mi0021259_Homo_sapiens_miR-6125_stem-loop	Gypsy-33_SB-I#Gypsy#Sorghum	82.5	40	7	45
	hsa-mir-6127_mi0021271_Homo_sapiens_miR-6127_stem-loop	En/Spm2_TM#DNA	78	50	61	109
	mml-mir-6127_mi0021280_Macaca	MIR3#SINE#Mammalia	75.93	54	2	55
	ptr-mir-6127_mi0021261_Pan_troglodytes_miR-6127_stem-loop	MIR3_MarsB#SINE2/tRNA#Metatheria	74.65	71	12	82
	hsa-mir-6129_mi0021274_Homo_sapiens_miR-6129_stem-loop	RMER13B#ERV2#Muridae	80	40	23	62
	ptr-mir-6129_mi0021264_Pan_troglodytes_miR-6129_stem-loop	RMER13B#ERV2#Muridae	80	40	23	62
	hsa-mir-6130_mi0021275_Homo_sapiens_miR-6130_stem-loop	L1MA8#Repetitive	75.45	110	1	109
	mml-mir-6130_mi0021284_Macaca	L1MA8#Repetitive	77.27	110	1	109
	ptr-mir-6130_mi0021265_Pan_troglodytes_miR-6130_stem-loop	L1MA8#Repetitive	76.36	110	1	109

	mml-mir-6133_mi0021287_Macaca	RF00100;7SK;CABD02307382.1/4797-5119	82.61	46	33	77
	nta-MIR6150_mi0021431_Nicotiana	Gypsy-28_Mad-LTR#Gypsy#Malus	70.51	78	6	80
	nta-MIR6153_mi0021444_Nicotiana	Ogre-LE1_LTR#Gypsy#Solanum	80	50	38	85
	nta-MIR6163_mi0021469_Nicotiana	TONT1_LE_I#LTR	82.86	70	10	79
	nta-MIR6164a_mi0021470_Nicotiana	SONATA2#DNA	81.67	60	34	93
	nta-MIR6164b_mi0021471_Nicotiana	SONATA2#DNA	83.05	59	39	97
	hbr-MIR6170_mi0021479_Hevea	RF00028;Intron_gpI;AM266987.1/554-1026	83.33	42	29	67
	hbr-MIR6172_mi0021482_Hevea	RF00017;Metazoa_SRP;AADC01146307.1/37184-36893	80.43	46	44	87
	hbr-MIR6173_mi0021483_Hevea	RF01959;SSU_rRNA_archaea;AF166114.1/117516-116014	96.88	64	37	100
	hvu-MIR6177_mi0021490_Hordeum	LTR-1_Mad#Gypsy#Malus	80.95	42	181	221
	hvu-MIR6184_mi0021498_Hordeum	RF00230;T-box;ADGX01000193.1/8219-8125	74.19	62	34	95
	hvu-MIR6186_mi0021500_Hordeum	TUBE2#SINE#Tupaia	76.92	52	5	56
	hvu-MIR6193_mi0021509_Hordeum	Legionella_pneumophila_Philadelphia_1_chr.trna7-GlyCCC	80	40	50	89
	hvu-MIR6213_mi0021531_Hordeum	RF02252;Six3os1_7;AEYP01032992.1/856-1056	80	40	60	99
	hvu-MIR6214_mi0021532_Hordeum	TguLTRK1_I#ERV2#Estrildidae	81.4	43	59	101
	sbi-MIR6217a_mi0023508_Sorghum_bicolor_miR6217a_stem-loop	DNA-3_SBi#DNA	90.38	52	1	52
	sbi-MIR6217b_mi0023509_Sorghum_bicolor_miR6217b_stem-loop	DNA-3_SBi#DNA	95.07	223	3	224
	sbi-MIR6218_mi0023510_Sorghum_bicolor_miR6218_stem-loop	EnSpm-10_ZM#EnSpm#Zea	81.18	85	36	120
	sbi-MIR6219_mi0023514_Sorghum_bicolor_miR6219_stem-loop	En/Spm2_TM#DNA	78.57	70	59	126
	sbi-MIR6220_mi0023515_Sorghum_bicolor_miR6220_stem-loop	STOWAWAY13_SB#DNA	84.34	83	192	274
	sbi-MIR6222_mi0023518_Sorghum_bicolor_miR6222_stem-loop	HARB-N31_SBi#Harbinger#Sorghum	86.54	52	42	93
	sbi-MIR6224a_mi0023520_Sorghum_bicolor_miR6224a_stem-loop	STOWAWAY22_SB#DNA	93.1	174	2	175
	sbi-MIR6224b_mi0023521_Sorghum_bicolor_miR6224b_stem-loop	STOWAWAY22_SB#DNA	90.7	43	127	169
	sbi-MIR6224c_mi0023522_Sorghum_bicolor_miR6224c_stem-loop	STOWAWAY22_SB#DNA	89.2	176	26	198
	sbi-MIR6225_mi0023523_Sorghum_bicolor_miR6225_stem-loop	TSB1#Harbinger#Sorghum	87.86	140	2	141
	sbi-MIR6227_mi0023527_Sorghum_bicolor_miR6227_stem-loop	DNA-3-2N_SBi#DNA	91.1	146	9	154
	sbi-MIR6228_mi0023529_Sorghum_bicolor_miR6228_stem-loop	HARB-N2_SB#Harbinger#Sorghum	79.49	78	3	78
	sbi-MIR6229_mi0023530_Sorghum_bicolor_miR6229_stem-loop	LINE1-18_SBi#L1#Sorghum	85.14	74	12	84
	sbi-MIR6230_mi0023531_Sorghum_bicolor_miR6230_stem-loop	CLOUD-7#DNA	87.5	40	135	174
	sbi-MIR6232a_mi0023535_Sorghum_bicolor_miR6232a_stem-loop	STOWAWAY41_OS#DNA	90.24	41	122	162
	sbi-MIR6232b_mi0023536_Sorghum_bicolor_miR6232b_stem-loop	STOWAWAY41_OS#DNA	84.09	44	119	162
	sbi-MIR6233_mi0023537_Sorghum_bicolor_miR6233_stem-loop	RLG_scAle_1_1-I#Copia#Saccharum	87.01	77	9	85
	mmu-mir-6236_mi0021583_Mus	LSU-rRNA_Cel	100	45	1	45
	mmu-mir-6240_mi0021587_Mus	LSU-rRNA_Dme	93.1	58	49	106
	mmu-mir-6243_mi0021590_Mus	LSU-rRNA_Hca	97.56	41	28	68
	osa-MIR6253_mi0021603_Oryza	RF01431;snoR135;ADWL01014774.1/5887-5823	100	65	4	68
	osa-MIR6254_mi0021604_Oryza	Harbinger-3_VV#Harbinger#Vitis	75	56	81	136
	osa-MIR6255_mi0021605_Oryza	RF01431;snoR135;AP006458.4/148991-148843	100	80	1	80
	gma-MIR6299_mi0021723_Glycine	P1_AP#P#Acyrthosiphon	76.92	65	29	85
	gma-MIR6300_mi0021724_Glycine	RF00028;Intron_gpI;EF562517.1/5-278	75.41	61	55	115
	hme-mir-6303_mi0021805_Heliconius	Rehavkus-1_CS#Rehavkus#Ciona	83.33	42	36	75

	rno-mir-6320_mi0021843_Rattus	RF00004;U2;AFSB01110994.1/3839-4007	95.45	44	72	115
	rno-mir-6330_mi0021854_Rattus	L1MA5#Repetitive	80.95	42	56	97
	mmu-mir-6344_mi0021872_Mus	VANDAL10#MuDR#Arabidopsis	80	40	23	62
	mmu-mir-6347_mi0021875_Mus	MER5A#Repetitive	72.55	51	28	78
	mmu-mir-6363_mi0021892_Mus	SINEB1_MU#SINE#Meriones	74.58	59	56	114
	mmu-mir-6364_mi0021893_Mus	B4_ROD	83.56	73	6	77
	mmu-mir-6373_mi0021902_Mus	RF01167;sn2429;ABLE03025213.1/3758-3682	75	52	4	54
	mmu-mir-6374_mi0021903_Mus	RF00017;Metazoa_SRP;ABDC01131008.1/89-393	85	40	41	80
	mmu-mir-6377_mi0021907_Mus	L1MA9#Repetitive	76.47	68	3	69
	mmu-mir-6380_mi0021911_Mus	B3#SINE#Rodentia	72.5	80	11	81
	mmu-mir-6398_mi0021934_Mus	RF00026;U6;ABDC01182048.1/910-820	74.58	59	9	62
	mmu-mir-6412_mi0021949_Mus	STRIDE1#SINE1/7SL#Ictidomys	76.81	69	23	90
	mmu-mir-6414_mi0021952_Mus	RF02035;IMES-2;AACY021636922.1/521-381	75.47	53	7	56
	mmu-mir-6417_mi0021955_Mus	HAT-10_Mad#hAT#Malus	76.47	51	49	99
	mmu-mir-6418_mi0021956_Mus	Copia-63_VV-I#Copia#Vitis	81.4	43	33	72
	mmu-mir-6419_mi0021957_Mus	RF00560;SNORA17;AABR05113090.1/65198-65328	74.55	55	60	111
	ptc-MIR6423_mi0022024_Populus	Gypsy-9_DPu-I#Gypsy#Daphnia	76.25	80	78	151
	ptc-MIR6425a_mi0021970_Populus	MacERV4_int#ERV2#Cercopithecidae	80.95	42	120	160
	ptc-MIR6426a_mi0021995_Populus	DNA-3-2B_PTr#DNA	90.38	52	29	80
	ptc-MIR6426b_mi0022031_Populus	DNA-3-2B_PTr#DNA	81.97	61	36	96
	ptc-MIR6432_mi0022006_Populus	Gypsy-26_PTr-LTR#Gypsy#Populus	71.56	109	2	101
	ptc-MIR6437a_mi0022012_Populus	Ogre-PT2_LTR#Gypsy#Populus	87.8	41	22	62
	ptc-MIR6437b_mi0021999_Populus	Ogre-PT2_LTR#Gypsy#Populus	87.8	41	22	62
	ptc-MIR6438b_mi0021975_Populus	RF00001;5S_rRNA;ABRP01129000.1/726-601	80	40	184	223
	ptc-MIR6439b_mi0022030_Populus	RF01998;group-II-D1D4-1;AGBG01000046.1/279-374	80	40	175	213
	ptc-MIR6440c_mi0021977_Populus	BEL-1-I_XT#BEL#Xenopus	75	56	5	57
	ptc-MIR6443_mi0022018_Populus	hAT-72_HM#hAT#Hydra	82.93	41	1	41
	ptc-MIR6444_mi0022019_Populus	CR1-9_HM#CR1#Hydra	80.85	47	60	105
	ptc-MIR6445a_mi0022020_Populus	L1-4_LA#L1#Loxodonta	80.49	41	57	97
	ptc-MIR6452_mi0022034_Populus	RF01417;RSV_RNA;AL645923.14/81871-81598	75	56	49	104
	ptc-MIR6454_mi0022036_Populus	RF01855;Plant_SRP;AARH01024914.1/1674-1372	85.11	47	2	48
	ptc-MIR6455_mi0022037_Populus	L1-24_ACar#L1#Anolis	80.95	42	132	171
	ptc-MIR6460_mi0021966_Populus	RF00409;SNORA7;AAPN01435063.1/4265-4130	80.49	41	7	47
	ptc-MIR6462a_mi0021968_Populus	RF01291;SNORD97;AGAI01045456.1/65326-65169	80	40	33	71
	ptc-MIR6464_mi0021971_Populus	MuDR-11N_VV#MuDR#Vitis	83.33	42	43	82
	ptc-MIR6465_mi0021972_Populus	RF00028;Intron_gpI;AF215904.1/10-318	84.44	45	38	82
	ptc-MIR6466_mi0021973_Populus	RF00028;Intron_gpI;AJ409374.1/1-427	73.91	69	32	96
	ptc-MIR6470_mi0021984_Populus	DNA4-3_AP#DNA	75.93	54	36	88
	ptc-MIR6472_mi0021986_Populus	COPIA4-I_AG#Copia#Anopheles	80.43	46	19	63
	ptc-MIR6473_mi0021987_Populus	MER57I#Internal	80	40	6	45
	ptc-MIR6476_mi0021991_Populus	RF00425;SNORA18;ABRR01391506.1/3912-4041	80.49	41	36	75

	ptc-MIR6478_mi0021994_Populus	Populus_trichocarpa_scaffold_15.trna5-IleGAT	80	70	3	65
	hbr-MIR6483_mi0022062_Hevea	RF00015;U4;AAQR03096661.1/48687-48564	80.49	41	5	45
	mja-mir-6490_mi0022067_Marsupenaeus	LSU-rRNA_Ath	87.65	81	34	114
	mja-mir-6491_mi0022068_Marsupenaeus	LSU-rRNA_Hca	82.93	41	1	41
	mja-mir-6492_mi0022069_Marsupenaeus	LSU-rRNA_Cel	72.13	61	35	95
	mja-mir-6494_mi0022071_Marsupenaeus	LSU-rRNA_Dme	72.73	77	1	77
	bmo-mir-6496_mi0022086_Bombyx	LSU-rRNA_Dme	73.33	75	1	75
	bmo-mir-6497_mi0022087_Bombyx	LSU-rRNA_Ath	90.48	42	1	42
	hsa-mir-6500_mi0022211_Homo_sapiens_miR-6500_stem-loop	MER52#Repetitive	87.5	80	1	79
	hsa-mir-6503_mi0022215_Homo_sapiens_miR-6503_stem-loop	RF00100;7SK;CABD02255103.1/1372-1181	73.33	60	26	84
	hsa-mir-6507_mi0022219_Homo_sapiens_miR-6507_stem-loop	L1M3_5#L1	81.82	44	1	43
	hsa-mir-6514_mi0022226_Homo_sapiens_miR-6514_stem-loop	SZ-39LTR#Gypsy#Oryza	75.44	57	1	54
	gga-mir-6516_mi0022520_Gallus	RF00424;SCARNA16;ADDD01135090.1/7641-7810	100	89	1	89
	bta-mir-652_mi0021123_Bos	MER91C#DNA	82.8	93	12	98
	cgr-mir-652_mi0020546_Cricetulus	MER91C#DNA	82.35	85	2	80
	ggo-mir-652_mi0020700_Gorilla	MER91B#Non-autonomous	90.48	42	69	109
	ssc-mir-652_mi0015919_Sus_scrofa_miR-652_stem-loop	MER91C#hAT#Homo	83.91	87	3	83
	bta-mir-6522_mi0022287_Bos	ATENSPM1#EnSpm#Arabidopsis	80.49	41	34	70
	gga-mir-6543_mi0022539_Gallus	CR1-J1_Pass#CR1#Passeriformes	78.18	110	1	108
	gga-mir-6548_mi0022365_Gallus	Charlie-Galluhop#Charlie-Galluhop#Gallus	76.19	105	6	107
	gga-mir-6552_mi0022370_Gallus	CR1-Y4#CR1#Gallus	96.36	55	1	55
	gga-mir-6555_mi0022374_Gallus	CR1-Y3#CR1#Gallus	87	100	1	100
	gga-mir-6561_mi0022379_Gallus	CR1-Y#CR1#Gallus	84.31	102	1	102
	gga-mir-6595_mi0022415_Gallus	RF00028;Intron_gpI;AF303672.1/2-490	80.95	42	35	76
	gga-mir-6603_mi0022422_Gallus	CR1-D2#CR1#Gallus	95.65	46	63	108
	gga-mir-6634_mi0022453_Gallus	CR1POL#LINE#Gallus	94.03	67	29	95
	cgr-mir-664_mi0020548_Cricetulus	RF00340;SNORA36;AFTD01019827.1/36092-36223	100	73	1	73
	gga-mir-6642_mi0022461_Gallus	TguLTRK1_I#ERV2#Estrildidae	78.85	52	29	80
	gga-mir-6646-1_mi0022464_Gallus	Zepp#L1#Chlorella	80.95	42	31	72
	gga-mir-6646-2_mi0023554_Gallus	Zepp#L1#Chlorella	80.95	42	31	72
	hsa-mir-664b_mi0019134_Homo_sapiens_miR-664b_stem-loop	RF00340;SNORA36;CABD02303500.1/3133-3012	98.36	61	1	61
	gga-mir-6651_mi0022470_Gallus	RF00017;Metazoa_SRP;AADN03000502.1/167900-167612	93.1	87	13	98
	gga-mir-6668_mi0022488_Gallus	CR1-F2#CR1#Gallus	92.31	52	1	52
	gga-mir-6669_mi0022489_Gallus	RF01959;SSU_rRNA_archaea;AE009439.1/518289-516780	81.4	43	16	57
	gga-mir-6672_mi0022492_Gallus	CR1-Y4#CR1#Gallus	89.66	58	29	86
	gga-mir-6676_mi0022496_Gallus	NonLTR-5_CR#Non-LTR	80.43	46	9	53
	gga-mir-6678_mi0022498_Gallus	CR1_F#CR1#Gallus	85.42	48	56	103
	gga-mir-6680_mi0022500_Gallus	CR1-Y#CR1#Gallus	77.01	87	18	102
	gga-mir-6688_mi0022509_Gallus	Birddawg_I#Gypsy#Gallus	87.5	56	27	82
	gga-mir-6691-1_mi0022512_Gallus	R7Ag2#Non-LTR	80.7	57	13	67
	gga-mir-6691-2_mi0023556_Gallus	R7Ag2#Non-LTR	80.7	57	13	67

	gga-mir-6699_mi0022521_Gallus	RF00004;U2;AAYZ01525807.1/1498-1361	80	45	42	84
	mmu-mir-669a-10_mi0014073_Mus	CR1-18_HM#CR1#Hydra	82.5	40	40	78
	mmu-mir-669a-11_mi0014075_Mus	CR1-18_HM#CR1#Hydra	82.5	40	40	78
	mmu-mir-669a-12_mi0014077_Mus	CR1-18_HM#CR1#Hydra	82.5	40	40	78
	mmu-mir-669a-4_mi0014054_Mus	CR1-18_HM#CR1#Hydra	82.5	40	40	78
	mmu-mir-669a-5_mi0014055_Mus	CR1-18_HM#CR1#Hydra	82.5	40	40	78
	mmu-mir-669a-6_mi0014058_Mus	CR1-18_HM#CR1#Hydra	82.5	40	40	78
	mmu-mir-669a-7_mi0014061_Mus	CR1-18_HM#CR1#Hydra	82.5	40	40	78
	mmu-mir-669a-8_mi0014066_Mus	CR1-18_HM#CR1#Hydra	82.5	40	40	78
	mmu-mir-669a-9_mi0014068_Mus	CR1-18_HM#CR1#Hydra	82.5	40	40	78
	mmu-mir-669d-2_mi0014051_Mus	CR1-18_HM#CR1#Hydra	78.33	60	27	86
	mmu-mir-669p-1_mi0014064_Mus	TRAS3_BM#R1#Bombyx	80.43	46	38	82
	mmu-mir-669p-2_mi0014071_Mus	TRAS3_BM#R1#Bombyx	80.43	46	38	82
	gga-mir-6700_mi0022522_Gallus	CR1-F2#CR1#Gallus	78.76	113	2	107
	gga-mir-6702_mi0022524_Gallus	CR1-Y#CR1#Gallus	94.92	59	52	110
	gga-mir-6706_mi0022528_Gallus	Eri-2B_EE#SINE#Erinaceus	81.4	43	40	81
	gga-mir-6707_mi0022529_Gallus	CR1-Y4#CR1#Gallus	85.71	49	21	69
	gga-mir-6708_mi0022530_Gallus	LTR1420_EC#ERV1#Equus	80.77	52	36	79
	hsa-mir-6720_mi0022555_Homo_sapiens_miR-6720_stem-loop	Gypsy-2_PCR-I#Gypsy#Phanerochaete	74.07	81	22	94
	mdm-MIR7127a_mi0023168_Malus	RF00001;5S_rRNA;ABGA01133257.1/15266-15147	82.93	41	48	85
	mdm-MIR7128_mi0023173_Malus	RF00028;Intron_gpI;AJ238766.1/1-513	80.39	51	8	57
	sha-mir-716a_mi0019600_Sarcophilus_harrisii_miR-716a_stem-loop	LSU-rRNA_Hca	94.03	67	84	150
	sha-mir-716b_mi0019618_Sarcophilus_harrisii_miR-716b_stem-loop	LSU-rRNA_Ath	98.21	56	91	146
	ENSMMUG00000036288|mml-mir-762-1_[Source:miRBase;Acc:MI0012548]|mml-n	NonLTR-5_CR#Non-LTR	81.82	44	543	585
	osa-MIR812k_mi0017245_Oryza	CR1-41_HM#CR1#Hydra	79.25	53	113	164
	osa-MIR812l_mi0017246_Oryza	TC4#DNA	85	40	66	105
	osa-MIR812m_mi0017247_Oryza	CANDYSTRIPE1#EnSpm#Sorghum	70.37	135	32	165
	osa-MIR812n_mi0017254_Oryza	RF00028;Intron_gpI;HQ656752.1/1-507	80	55	37	90
	osa-MIR812o_mi0017255_Oryza	SZ-55#Copia#Oryza	75	76	76	145
	osa-MIR812p_mi0019799_Oryza	Sola2-3_DPu#Sola#Daphnia	85	40	124	163
	osa-MIR812q_mi0019800_Oryza	ATREP11A#Helitron#Arabidopsis	76.47	68	66	125
	osa-MIR812r_mi0019807_Oryza	Ogre-SD1_I#Gypsy#Solanum	74.63	67	95	160
	osa-MIR812s_mi0019812_Oryza	CR1-41_HM#CR1#Hydra	81.63	49	39	84
	osa-MIR812t_mi0019817_Oryza	hAT-N4_Mad#hAT#Malus	82.22	45	115	158
	osa-MIR812u_mi0019818_Oryza	Ogre-SD1_I#Gypsy#Solanum	75.76	66	95	158
	osa-MIR812v_mi0019823_Oryza	B2L_S#SINE#Sciurognathi	80	60	36	95
	osa-MIR818f_mi0023432_Oryza	MUDRAVI2#MuDR#Vitis	85	40	82	118
	asu-mir-81a_mi0018555_Ascaris	RF00727;bantam;ACPB02031190.1/4252-4344	78.46	65	11	73
	mdm-MIR827_mi0023132_Malus	MuDR1_HV#MuDR#Hordeum	78.57	56	71	124
	aly-MIR828_mi0014606_Arabidopsis	RF00230;T-box;AEOT01000009.1/28498-28745	83.33	42	37	77
	mdm-MIR828a_mi0023133_Malus	EnSpm3_PT#EnSpm#Populus	82.93	41	63	103

	mdm-MIR828b_mi0023134_Malus	MuDR1_HV#MuDR#Hordeum	80.39	51	50	100
	aly-MIR833_mi0014609_Arabidopsis	RF01417;RSV_RNA;AAQR03187536.1/17230-16939	82.5	40	4	42
	aly-MIR835_mi0014611_Arabidopsis	ENSPM2_VV#EnSpm#Vitis	80	45	92	136
	aly-MIR837_mi0014644_Arabidopsis	Gypsy-71_PTr-LTR#Gypsy#Populus	80.77	52	8	59
	aly-MIR844_mi0014616_Arabidopsis	RF00010;RNaseP_bact_a;AATR01000031.1/8560-8909	78.43	51	63	111
	cme-MIR854_mi0023204_Cucumis	Copia-10_Mad-I#Copia#Malus	83.33	48	6	52
	aly-MIR857_mi0014623_Arabidopsis	ENSPM1_PT#EnSpm#Populus	77.94	68	247	312
	aly-MIR858_mi0014624_Arabidopsis	L2-1a_Cis#CR1#Ciona	80.77	52	730	780
	cme-MIR858_mi0023187_Cucumis	RF00028;Intron_gpI;HQ613695.1/7-286	76.92	65	40	104
	tca-mir-87b_mi0016332_Tribolium_castaneum_miR-87b_stem-loop	RF00017;Metazoa_SRP;AAKN02013252.1/27448-27757	72.13	61	37	97
	ggo-mir-885_mi0020661_Gorilla	RF00409;SNORA7;AAPN01232765.1/7684-7840	82.5	40	63	101
	sha-mir-9_mi0019609_Sarcophilus_harrisii_miR-9_stem-loop	RF01417;RSV_RNA;ADDD01150879.1/578-865	78	50	68	116
	oan-mir-92d_mi0012556_Ornithorhynchus	RF00097;snoR71;AEMH01011343.1/8755-8861	80.49	41	1	41
	pde-MIR946_mi0022102_Pinus	RF00409;SNORA7;AC160641.2/119674-119811	80	40	16	54
	ssl-MIR948_mi0019356_Salvia_sclarea_miR948_stem-loop	ATLANTYS2_I#Gypsy#Arabidopsis	80.95	42	16	56
	pde-MIR949b_mi0022105_Pinus	Xanthobacter_autotrophicus_Py2_chr.trna6-AlaGGC	80.49	41	13	53
	tca-mir-9e_mi0020231_Tribolium_castaneum_miR-9e_stem-loop	L1-35_ACar#L1#Anolis	80.43	46	5	49
		Average	82.38744	56.9974		