

Supplementary Table1. **TE-derived miRNAs.**

Name^a	Accn^b	Coords^c	TE^d	Overlap^e
ath-MIR414	MI0001425	chr1:25141119-25141226(-)	ATCopia24I (LTR/Copia)	57.41
ath-MIR855	MI0005411	chr2:4681509-4681780(+)	Athila4B_LTR (LTR/Gypsy)	100.00
ath-MIR416	MI0001427	chr2:7015602-7015681(+)	Vandal1 (DNA/MuDR)	100.00
ath-MIR405a	MI0001074	chr2:9642037-9642193(-)	SIMPLEHAT2 (DNA/hAT)	100.00
ath-MIR407	MI0001079	chr2:13873282-13873544(+)	ATMU9 (DNA/MuDR)	93.16
ath-MIR405d	MI0001077	chr4:2789653-2789738(-)	SIMPLEHAT2 (DNA/hAT)	100.00
ath-MIR401	MI0001070	chr4:5020234-5020483(-)	Athila4B_LTR (LTR/Gypsy)	100.00
ath-MIR854b	MI0005413	chr5:11341600-11341820(-)	Athila6A_I (LTR/Gypsy)	100.00
ath-MIR854d	MI0005415	chr5:11707091-11707311(-)	Athila6A_I (LTR/Gypsy)	100.00
ath-MIR854c	MI0005414	chr5:11855326-11855546(+)	Athila6A_I (LTR/Gypsy)	100.00
ath-MIR854a	MI0005412	chr5:11864949-11865169(+)	Athila6A_I (LTR/Gypsy)	100.00
ath-MIR405b	MI0001075	chr5:20649740-20649863 (+)	SIMPLEHAT2	100.00

			(DNA/hAT)	
osa-MIR439a	MI0001691	chr1:20206990-20207082(+)	MuDR4_OS (DNA/MuDR)	100.00
osa-MIR814a	MI0005239	chr1:22701877-22701973(+)	STOWAWAY47_OS (DNA/Stowaway)	100.00
osa-MIR441c	MI0001706	chr1:32522492-32522645(+)	STOWAWAY1_OS (DNA/Stowaway)	97.40
osa-MIR812a	MI0005233	chr1:34273999-34274232(+)	STOWAWAY51_OS (DNA/Stowaway)	100.00
osa-MIR807a	MI0005209	chr1:39312844-39313095(+)	ECR (DNA/Tourist)	98.41
osa-MIR818a	MI0005247	chr1:40742271-40742414(+)	STOWAWAY15-2_OS (DNA/Stowaway)	98.61
osa-MIR819a	MI0005252	chr1:41534243-41534367(+)	STOWAWAY1_OS (DNA/Stowaway)	100.00
osa-MIR806a	MI0005210	chr1:43254846-43255097(-)	TREP215 (DNA/Stowaway)	94.44
osa-MIR812b	MI0005234	chr2:1936324-1936493(-)	STOWAWAY51_OS (DNA/Stowaway)	100.00
osa-MIR818b	MI0005248	chr2:4007187-4007299(+)	STOWAWAY15-2_OS (DNA/Stowaway)	100.00
osa-MIR806b	MI0005211	chr2:5044109-5044323(-)	TREP215 (DNA/Stowaway)	100.00
osa-MIR814c	MI0005241	chr2:10889670-10889752(-)	STOWAWAY47_OS	100.00

			(DNA/Stowaway)	
osa-MIR817	MI0005246	chr2:12276361-12276443(-)	ENSPM3_OS (DNA/En-Spm)	100.00
osa-MIR437	MI0001688	chr2:17044466-17044678(-)	STOWAWAY41_OS (DNA/Stowaway)	37.09
osa-MIR807b	MI0005218	chr2:24481931-24482076(-)	ECR (DNA/Tourist)	100.00
osa-MIR814b	MI0005240	chr2:26335342-26335415(+)	STOWAWAY47_OS (DNA/Stowaway)	100.00
osa-MIR819c	MI0005254	chr2:33750674-33750827(+)	STOWAWAY1_OS (DNA/Stowaway)	97.40
osa-MIR819b	MI0005253	chr2:34659352-34659517(+)	DITAILA (DNA/Tourist), STOWAWAY50_OS (DNA/Stowaway)	96.39
osa-MIR818c	MI0005249	chr2:35922869-35923044(+)	STOWAWAY46_OS (DNA/Stowaway)	89.77
osa-MIR808	MI0005220	chr3:8847036-8847187(+)	STOWAWAY1_OS (DNA/Stowaway)	98.68
osa-MIR819d	MI0005255	chr3:10848548-10848699(-)	STOWAWAY1_OS (DNA/Stowaway), STOWAWAY10_OS (DNA/Stowaway)	100.00
osa-MIR439d	MI0001694	chr3:13677143-13677240(+)	MuDR4_OS	89.80

			(DNA/MuDR)	
osa-MIR435	MI0001687	chr3:18164352-18164483(+)	MERMITEH (DNA)	39.39
osa-MIR821a	MI0005266	chr3:22928833-22929106(+)	ENSPM3_OS (DNA/En-Spm), OSTE22 (DNA)	100.00
osa-MIR809a	MI0005221	chr3:26735515-26735675(-)	STOWAWAY1_OS (DNA/Stowaway)	94.41
osa-MIR441a	MI0001704	chr3:28876745-28876897(-)	STOWAWAY1_OS (DNA/Stowaway)	79.74
osa-MIR443	MI0001708	chr3:29972009-29972156(+)	STOWAWAY47_OS (DNA/Stowaway)	100.00
osa-MIR806c	MI0005212	chr3:36133235-36133504(-)	TREP215 (DNA/Stowaway)	88.52
osa-MIR819e	MI0005256	chr3:36206839-36206992(-)	STOWAWAY1_OS (DNA/Stowaway)	97.40
osa-MIR420	MI0001440	chr4:6098543-6098697(+)	TRUNCATOR2_OS (LTR/Gypsy)	100.00
osa-MIR416	MI0001436	chr4:17268776-17268884(+)	CPSC3_LTR (LTR/Copia)	100.00
osa-MIR807c	MI0005219	chr4:23886344-23886527(+)	ECR (DNA/Tourist)	100.00
osa-MIR442	MI0001707	chr4:32149607-32149839(+)	OLO24B (DNA/Tourist)	100.00
osa-MIR806d	MI0005213	chr4:33568288-33568558(-)	TREP215	87.82

			(DNA/Stowaway)	
osa-MIR818d	MI0005250	chr4:34750094-34750232(-)	TREP220 (DNA/Stowaway)	81.29
osa-MIR819f	MI0005257	chr4:35070636-35070779(-)	STOWAWAY50_OS (DNA/Stowaway)	100.00
osa-MIR815b	MI0005243	chr5:14914142-14914271(+)	WANDERER_OS (DNA/Tourist)	54.62
osa-MIR445d	MI0001712	chr5:18245235-18245546(-)	NDNA2TNA_OS (DNA/Tourist)	96.15
osa-MIR809b	MI0005222	chr5:26781125-26781276(-)	STOWAWAY1_OS (DNA/Stowaway)	86.18
osa-MIR819g	MI0005258	chr5:28003948-28004094(+)	STOWAWAY1_OS (DNA/Stowaway)	100.00
osa-MIR815a	MI0005242	chr5:29663360-29663442(+)	WANDERER_OS (DNA/Tourist)	26.51
osa-MIR439h	MI0001698	chr6:1552120-1552218(-)	MuDR4_OS (DNA/MuDR)	88.89
osa-MIR819h	MI0005259	chr6:10052973-10053127(-)	STOWAWAY50_OS (DNA/Stowaway), SZ-66LTR (LTR/Gypsy)	100.00
osa-MIR446	MI0001718	chr6:11975952-11976126(+)	STOWAWAY1_OS (DNA/Stowaway),	90.86

			MIDWAY (DNA)	
osa-MIR811a	MI0005230	chr6:13901553-13901742(+)	TAMI2 (DNA)	100.00
osa-MIR438	MI0001689	chr6:20744968-20745153(+)	OSTE1 (DNA)	1.61
osa-MIR812c	MI0005235	chr6:26259310-26259473(+)	STOWAWAY9_OS (DNA/Stowaway)	100.00
osa-MIR809c	MI0005223	chr6:29694703-29694857(+)	STOWAWAY1_OS (DNA/Stowaway), STOWAWAY47_OS (DNA/Stowaway)	98.06
osa-MIR815c	MI0005244	chr7:5425185-5425287(-)	DITTO-2 (DNA/Tourist)	58.25
osa-MIR439c	MI0001693	chr7:8232129-8232221(+)	MuDR4_OS (DNA/MuDR)	96.77
osa-MIR820b	MI0005264	chr7:13118845-13119035(-)	ENSPM2_OS (DNA/En-Spm)	16.75
osa-MIR809d	MI0005224	chr7:14711300-14711466(+)	STOWAWAY1_OS (DNA/Stowaway), MIDWAY (DNA)	95.81
osa-MIR821b	MI0005267	chr7:16415531-16415817(+)	OSTE22 (DNA), TNR3_OS (DNA/En-Spm)	100.00
osa-MIR441b	MI0001705	chr7:17310115-17310266(-)	STOWAWAY1_OS (DNA/Stowaway)	87.50

osa-MIR812d	MI0005236	chr7:22393529-22393681(+)	STOWAWAY44_OS (DNA/Stowaway)	100.00
osa-MIR819i	MI0005260	chr7:27791376-27791573(+)	STOWAWAY1_OS (DNA/Stowaway)	75.76
osa-MIR445a	MI0001709	chr7:28117531-28117798(+)	NDNA2TNA_OS (DNA/Tourist)	100.00
osa-MIR818e	MI0005251	chr7:28152738-28152962(-)	STOWAWAY21_OS (DNA/Stowaway)	100.00
osa-MIR806e	MI0005214	chr7:29167591-29167845(+)	TREP215 (DNA/Stowaway)	93.33
osa-MIR531	MI0003204	chr8:1214013-1214093(-)	SC-1_int-int (LTR/Copia)	100.00
osa-MIR439g	MI0001697	chr8:3657884-3657971(+)	MuDR4_OS (DNA/MuDR)	96.59
osa-MIR439e	MI0001695	chr8:14924726-14924823(-)	MuDR4_OS (DNA/MuDR)	91.84
osa-MIR809e	MI0005225	chr8:15317880-15318040(-)	STOWAWAY1_OS (DNA/Stowaway)	97.52
osa-MIR812e	MI0005237	chr8:16268303-16268472(+)	STOWAWAY44_OS (DNA/Stowaway)	100.00
osa-MIR821c	MI0005268	chr8:19792287-19792552(-)	ENSPM3_OS (DNA/En-Spm), OSTE22 (DNA)	100.00

osa-MIR806f	MI0005215	chr8:27832638-27832878(+)	TREP215 (DNA/Stowaway)	99.17
osa-MIR819j	MI0005261	chr8:28081183-28081357(+)	STOWAWAY1_OS (DNA/Stowaway)	85.71
osa-MIR809f	MI0005226	chr9:12000642-12000795(+)	STOWAWAY1_OS (DNA/Stowaway)	97.40
osa-MIR439f	MI0001696	chr9:16962023-16962118(+)	MuDR4_OS (DNA/MuDR)	93.75
osa-MIR811b	MI0005231	chr10:2372014-2372203(+)	TAMI2 (DNA)	100.00
osa-MIR439b	MI0001692	chr10:5338996-5339055(+)	MuDR4_OS (DNA/MuDR)	100.00
osa-MIR820c	MI0005265	chr10:6693845-6694025(+)	ENSPM2_OS (DNA/En-Spm)	14.92
osa-MIR439j	MI0001700	chr10:15479858-15479982(-)	MuDR4_OS (DNA/MuDR)	26.40
osa-MIR819k	MI0005262	chr10:18374459-18374614(-)	STOWAWAY50_OS (DNA/Stowaway)	98.72
osa-MIR816	MI0005245	chr10:21478646-21478722(+)	STOWAWAY47_OS (DNA/Stowaway)	100.00
osa-MIR806g	MI0005216	chr10:22588399-22588638(+)	TREP215 (DNA/Stowaway)	100.00
osa-MIR811c	MI0005232	chr11:5200383-5200541(-)	TAMI2 (DNA)	100.00
osa-MIR813	MI0005238	chr11:23113437-23113639(+)	NDNA1TNA_OS	100.00

			(DNA/Tourist)	
osa-MIR809g	MI0005227	chr11:25437945-25438096(-)	STOWAWAY1_OS (DNA/Stowaway)	98.68
osa-MIR531	MI0003204	chr11:26423868-26423948(+)	SC-1_int-int (LTR/Copia)	100.00
osa-MIR806h	MI0005217	chr11:28361967-28362237(-)	TREP215 (DNA/Stowaway)	88.19
osa-MIR809h	MI0005228	chr12:5776955-5777088(+)	STOWAWAY1_OS (DNA/Stowaway)	100.00
osa-MIR419	MI0001439	chr12:8234925-8235027(-)	CACTA-I (DNA/En-Spm)	5.83

^amiRNA name (from miRBase)

^bmiRBase accession number

^cGenomic coordinates of the miRNA

^dName of co-located TE

^ePercent of miRNA overlapping with TE sequence

Supplementary Figure 1. Genomic structure of TE-derived miRNAs.

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>>> 1 ath-MIR414 MI0001425 - 1 25141119 25141226 108 25:45, ATCopia24(LTR:Copia) 21/108(19.44) 62/108(57.41) 21/21(100.00)
-----OOOOOOOOOOOOOOOOOOOO-----
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX ATCopia24 (LTR:Copia)

>>> 2 ath-MIR855 MI0005411 + 2 4681509 4681780 272 7:28, Athila4B_L1(LTR:Gypsy) 22/272(8.09) 272/272(100.00) 22/22(100.00)
-----OOOOOOOOOOOOOOOOOOOO-----
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX Athila4B_L1(LTR:Gypsy)

>>> 3 ath-MIR416 MI0001427 + 2 7015602 7015681 80 57:77, Vandal1(DNA:MuDR) 21/80(26.25) 80/80(100.00) 21/21(100.00)
-----OOOOOOOOOOOOOOOOOOOO-----
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX Vandal1 (DNA:MuDR)

>>> 4 ath-MIR405a MI0001074 - 2 9642037 9642193 157 90:113, SIMLEHAT2(DNA:hAT) 24/157(15.29) 157/157(100.00) 24/24(100.00)
-----OOOOOOOOOOOOOOOOOOOO-----
YYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYY
YYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYY SIMLEHAT2 (DNA:hAT)

>>> 5 ath-MIR407 MI0001079 + 2 1387282 1387354 263 72:92, ATMU9(DNA:MuDR), ATMU9(DNA:MuDR) 21/263(7.98) 245/263(93.16) 21/21(100.00)
-----OOOOOOOOOOOOOOOOOOOO-----
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX ATMU9 (DNA:MuDR)
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX ATMU9 (DNA:MuDR)

>>> 6 ath-MIR405d MI0001077 - 4 2789653 2789738 86 49:72, SIMLEHAT2(DNA:hAT) 24/86(27.91) 86/86(100.00) 24/24(100.00)
-----OOOOOOOOOOOOOOOOOOOO-----
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX SIMLEHAT2 (DNA:hAT)

>>> 7 ath-MIR401 MI0001070 - 4 5020234 5020483 250 108:128, Athila4B_L1(LTR:Gypsy) 21/250(8.40) 250/250(100.00) 21/21(100.00)
-----OOOOOOOOOOOOOOOOOOOO-----
YYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYY
YYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYY Athila4B_L1(LTR:Gypsy)

>>> 8 ath-MIR855b MI0005413 - 5 11341600 11341820 221 3:23, Athila6A_IL1(LTR:Gypsy) 21/221(9.50) 221/221(100.00) 21/21(100.00)
-----OOOOOOOOOOOOOOOOOOOO-----
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX Athila6A_J (LTR:Gypsy)

>>> 9 ath-MIR854d MI0005415 - 5 11707091 11707311 221 3:23, Athila6A_IL1(LTR:Gypsy) 21/221(9.50) 221/221(100.00) 21/21(100.00)
-----OOOOOOOOOOOOOOOOOOOO-----
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX Athila6A_J (LTR:Gypsy)

>>> 10 ath-MIR854c MI0005414 + 5 11855326 11855546 221 3:23, Athila6A_IL1(LTR:Gypsy) 21/221(9.50) 221/221(100.00) 21/21(100.00)
-----OOOOOOOOOOOOOOOOOOOO-----
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX Athila6A_J (LTR:Gypsy)

>>> 11 ath-MIR854a MI0005412 + 5 11864949 11865169 221 3:23, Athila6A_IL1(LTR:Gypsy) 21/221(9.50) 221/221(100.00) 21/21(100.00)
-----OOOOOOOOOOOOOOOOOOOO-----
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX Athila6A_J (LTR:Gypsy)

>>> 12 ath-MIR405b MI0001075 + 5 20649740 20649863 124 70:93, SIMLEHAT2(DNA:hAT) 24/124(19.35) 124/124(100.00) 24/24(100.00)
-----OOOOOOOOOOOOOOOOOOOO-----
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX SIMLEHAT2 (DNA:hAT)

>>> 13 osa-MIR439a MI0001691 + 1 20206990 20207082 93 66:86, MuDR4_OS(DNA:MuDR) 21/93(22.58) 93/93(100.00) 21/21(100.00)
-----OOOOOOOOOOOOOOOOOOOO-----
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX MuDR4_OS (DNA:MuDR)

>>> 14 osa-MIR814a MI0005239 + 1 22701877 22701973 97 19:40, STOWAWAY47_OS(DNA:Stowaway) 22/97(22.68) 97/97(100.00) 22/22(100.00)
-----OOOOOOOOOOOOOOOOOOOO-----
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX STOWAWAY47_OS (DNA:Stowaway)

>>> 15 osa-MIR441c MI0001706 + 1 32522492 32522645 154 95:118, STOWAWAY1_OS(DNA:Stowaway) 24/154(15.58) 150/154(97.40) 24/24(100.00)
-----OOOOOOOOOOOOOOOOOOOO-----
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX STOWAWAY1_OS (DNA:Stowaway)

>>> 16 osa-MIR812a MI0005233 + 1 34273999 34274232 234 175:196, STOWAWAY51_OS(DNA:Stowaway) 22/234(9.40) 234/234(100.00) 22/22(100.00)
-----OOOOOOOOOOOOOOOOOOOO-----
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX STOWAWAY51_OS (DNA:Stowaway)

>>> 17 osa-MIR807a MI0005209 + 1 39312844 39313095 252 213:233, ECR(DNA:Tourist), ECR(DNA:Tourist) 21/252(8.33) 248/252(98.41) 21/21(100.00)
-----OOOOOOOOOOOOOOOOOOOO-----
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX ECR (DNA:Tourist)
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX ECR (DNA:Tourist)

>>> 18 osa-MIR818a MI0005247 + 1 40742271 40742414 144 117:138, STOWAWAY15_2_OS(DNA:Stowaway) 22/144(15.28) 142/144(98.61) 22/22(100.00)
-----OOOOOOOOOOOOOOOOOOOO-----
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
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>>> 54 osa-MIR439b MI0001698 - 6 1552120 1552218 99 72:92, MuDR4_OS(DNA/MuDR) 21:99(21.21) 88:99(88.89) 21:21(100.00)
-----OOOOOOOOOOOOOOOOOOOO-----
YYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYY
YYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYY
----- MuDR4_OS (DNA/MuDR)

>>> 55 osa-MIR819b MI0005259 - 6 10052973 10053127 155 15:36, STOWAWAY50_OS(DNA/Stowaway),SZ-66L:TR(LTR:Gypsy) 22:155(14.19) 155:155(100.00) 22:22(100.00)
-----OOOOOOOOOOOOOOOOOOOO-----
YYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYY
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
----- STOWAWAY50_OS (DNA/Stowaway)
-----XXX SZ-66L:TR (LTR:Gypsy)

>>> 56 osa-MIR446 MI0001718 + 6 11975952 11976126 175 105:128, MIDWAY(DNA),STOWAWAY1_OS(DNA/Stowaway) 24:175(13.71) 159:175(90.86) 24:24(100.00)
-----OOOOOOOOOOOOOOOOOOOO-----
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
----- MIDWAY (DNA)
-----YYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYY
----- STOWAWAY1_OS (DNA/Stowaway)

>>> 57 osa-MIR811a MI0005230 + 6 13901553 13901742 190 16:39, TAM2(DNA) 24:190(12.63) 190:190(100.00) 24:24(100.00)
-----OOOOOOOOOOOOOOOOOOOO-----
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
----- TAM2 (DNA)

>>> 58 osa-MIR438 MI0001689 + 6 20744968 20745153 186 24:44, OSTE1(DNA) 21:186(11.29) 3:186(1.61) 0:21(0.00)
-----OOOOOOOOOOOOOOOOOOOO-----
XXX-----
XXX----- OSTE1 (DNA)

>>> 59 osa-MIR812c MI0005235 + 6 26259310 26259473 164 134:155, STOWAWAY9_OS(DNA/Stowaway) 22:164(13.41) 164:164(100.00) 22:22(100.00)
-----OOOOOOOOOOOOOOOOOOOO-----
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
----- STOWAWAY9_OS (DNA/Stowaway)

>>> 60 osa-MIR809c MI0005223 + 6 29694703 29694857 155 106:127, STOWAWAY1_OS(DNA/Stowaway),STOWAWAY47_OS(DNA/Stowaway) 22:155(14.19) 152:155(98.06) 22:22(100.00)
-----OOOOOOOOOOOOOOOOOOOO-----
---XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
---XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
----- STOWAWAY1_OS (DNA/Stowaway)
-----XXX STOWAWAY47_OS (DNA/Stowaway)

>>> 61 osa-MIR815c MI0005244 - 7 5425185 5425287 103 80:100, DITTO-2(DNA/Tourist) 21:103(20.39) 60:103(58.25) 0:21(0.00)
-----OOOOOOOOOOOOOOOOOOOO-----
---XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
---XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
----- DITTO-2 (DNA/Tourist)

>>> 62 osa-MIR439c MI0001693 + 7 8232129 8232221 93 66:86, MuDR4_OS(DNA/MuDR) 21:93(22.58) 90:93(96.77) 21:21(100.00)
-----OOOOOOOOOOOOOOOOOOOO-----
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----- MuDR4_OS (DNA/MuDR)

>>> 63 osa-MIR820b MI0005264 - 7 13118845 13119035 191 6:26, ENSPM2_OS(DNA/En-Spm) 21:191(10.99) 32:191(16.75) 0:21(0.00)
-----OOOOOOOOOOOOOOOOOOOO-----
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XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
----- ENSPM2_OS (DNA/En-Spm)

>>> 64 osa-MIR809d MI0005224 + 7 14711300 14711466 167 114:135, MIDWAY1(DNA),STOWAWAY1_OS(DNA/Stowaway) 22:167(13.17) 160:167(95.81) 22:22(100.00)
-----OOOOOOOOOOOOOOOOOOOO-----
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----- MIDWAY1 (DNA)
-----XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
----- STOWAWAY1_OS (DNA/Stowaway)

>>> 65 osa-MIR821b MI0005267 + 7 16415531 16415817 287 21:44, TNR3_OS(DNA/En-Spm),OSTE2(DNA) 24:287(8.36) 287:287(100.00) 24:24(100.00)
-----OOOOOOOOOOOOOOOOOOOO-----
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----- TNR3_OS (DNA/En-Spm)
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----- OSTE2 (DNA)

>>> 66 osa-MIR441b MI0001705 - 7 17310115 17310266 152 93:116, STOWAWAY1_OS(DNA/Stowaway) 24:152(15.79) 133:152(87.50) 24:24(100.00)
-----OOOOOOOOOOOOOOOOOOOO-----
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---XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
----- STOWAWAY1_OS (DNA/Stowaway)

>>> 67 osa-MIR812d MI0005236 + 7 22393529 22393681 153 129:150, STOWAWAY44_OS(DNA/Stowaway) 22:153(14.38) 153:153(100.00) 22:22(100.00)
-----OOOOOOOOOOOOOOOOOOOO-----
YYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYY
YYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYY
----- STOWAWAY44_OS (DNA/Stowaway)

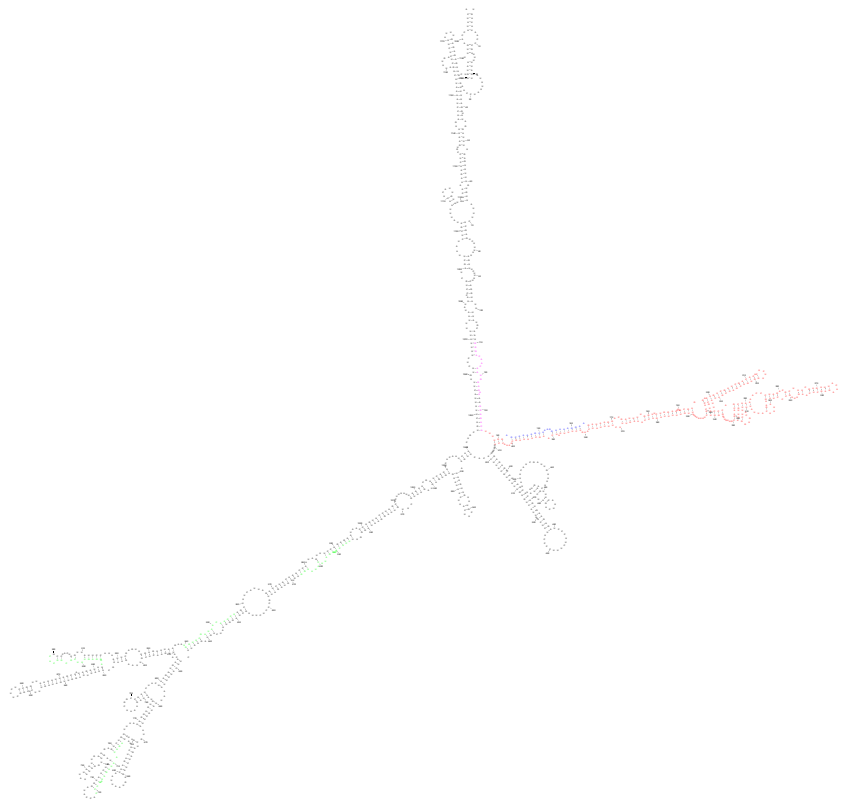
>>> 68 osa-MIR819i MI0005260 + 7 27791376 27791573 198 40:61, STOWAWAY1_OS(DNA/Stowaway) 22:198(11.11) 150:198(75.76) 22:22(100.00)
-----OOOOOOOOOOOOOOOOOOOO-----
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----- STOWAWAY1_OS (DNA/Stowaway)

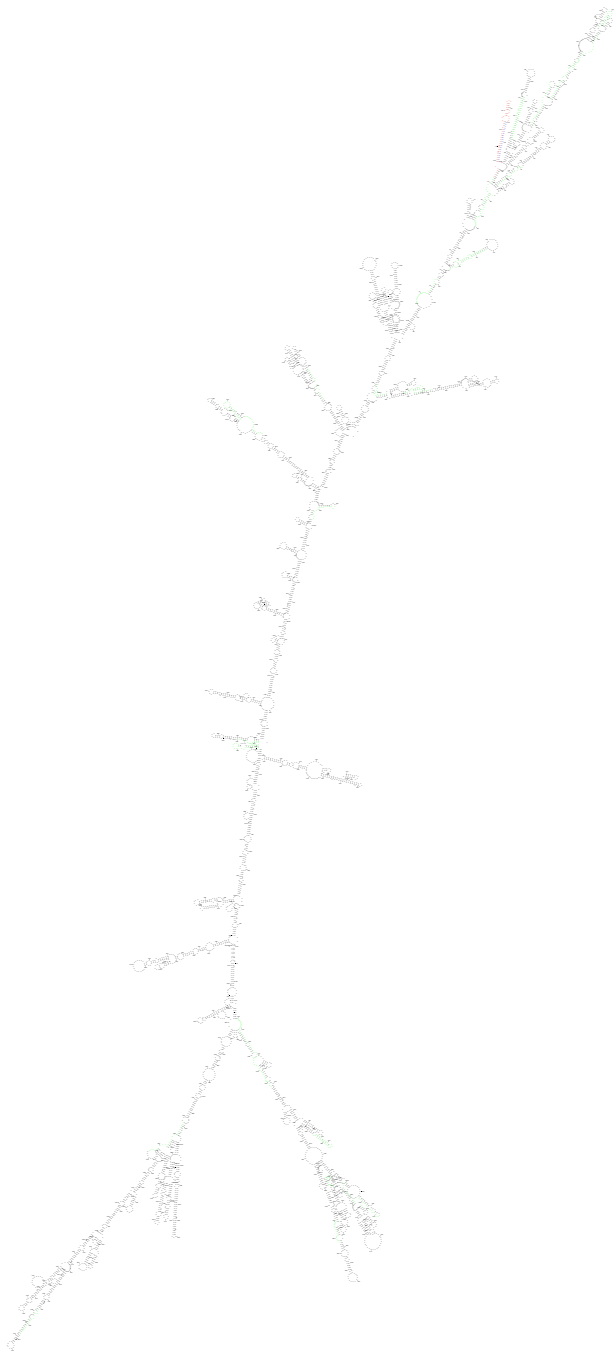
>>> 69 osa-MIR445a MI0001709 + 7 28117531 28117798 268 241:264, NDNA2TNA_OS(DNA/Tourist) 24:268(8.96) 268:268(100.00) 24:24(100.00)
-----OOOOOOOOOOOOOOOOOOOO-----
YYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYY
YYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYY
----- NDNA2TNA_OS (DNA/Tourist)

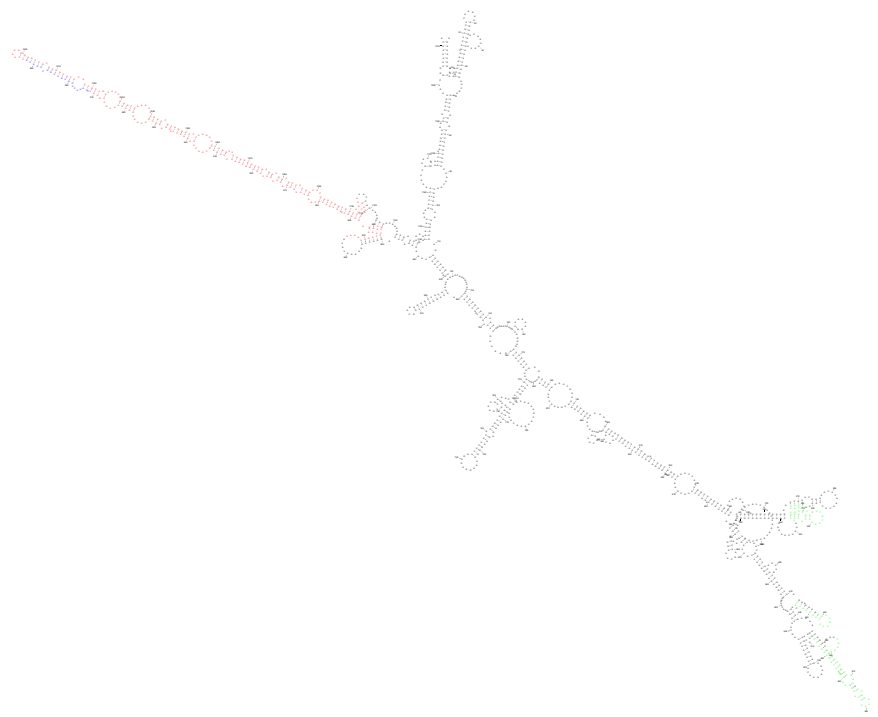
>>> 70 osa-MIR818e MI0005251 - 7 28152738 28152962 225 201:222, STOWAWAY21_OS(DNA/Stowaway) 22:225(9.78) 225:225(100.00) 22:22(100.00)
-----OOOOOOOOOOOOOOOOOOOO-----
YYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYY
YYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYY
----- STOWAWAY21_OS (DNA/Stowaway)

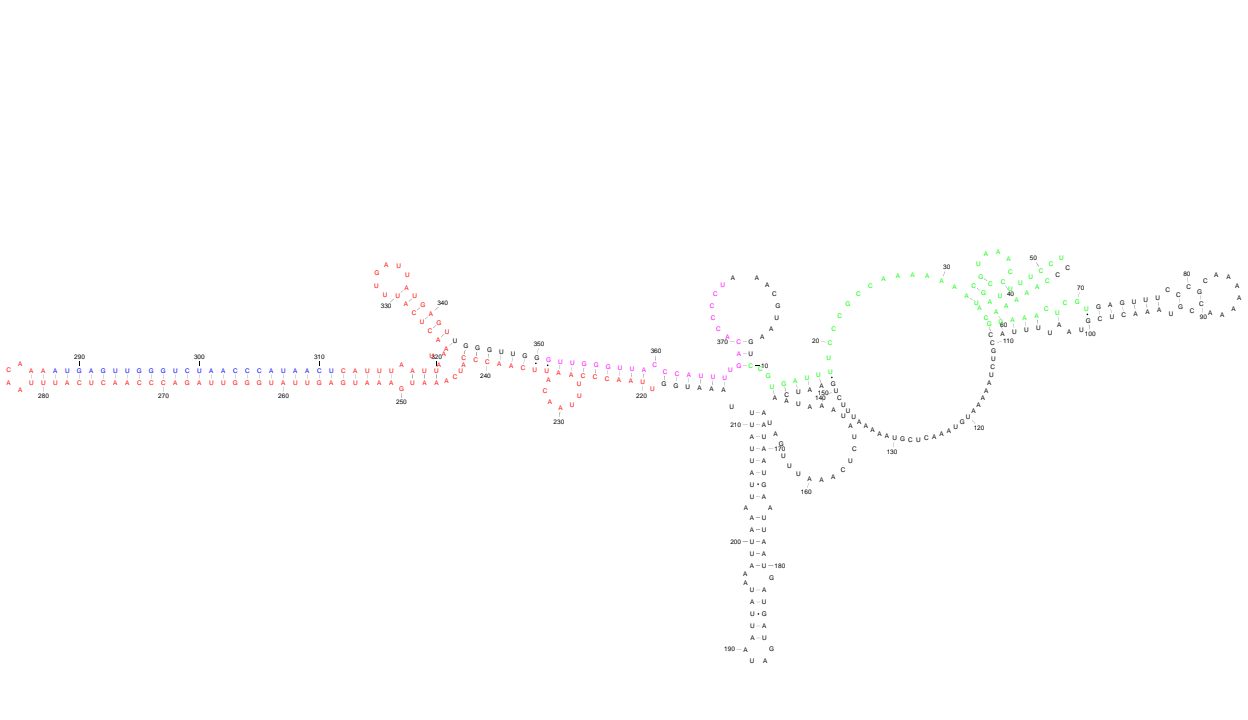
>>> 71 osa-MIR806e MI0005214 + 7 29167591 29167845 255 200:221, TREP215(DNA/Stowaway) 22:255(8.63) 238:255(93.33) 22:22(100.00)
-----OOOOOOOOOOOOOOOOOOOO-----
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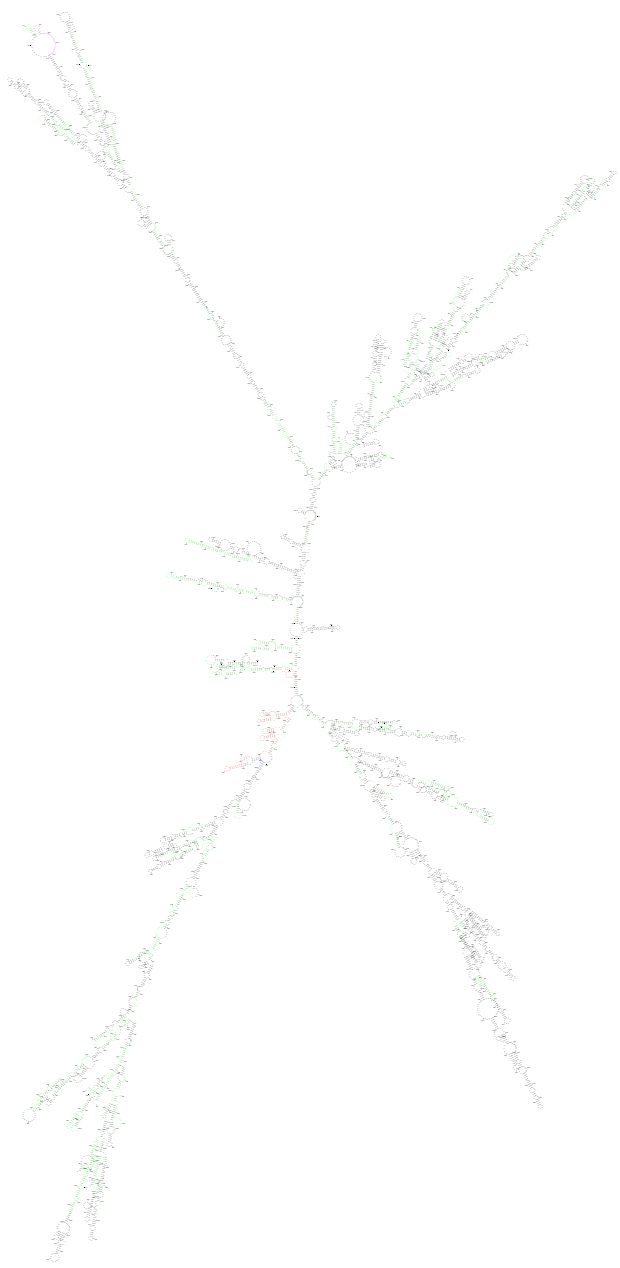
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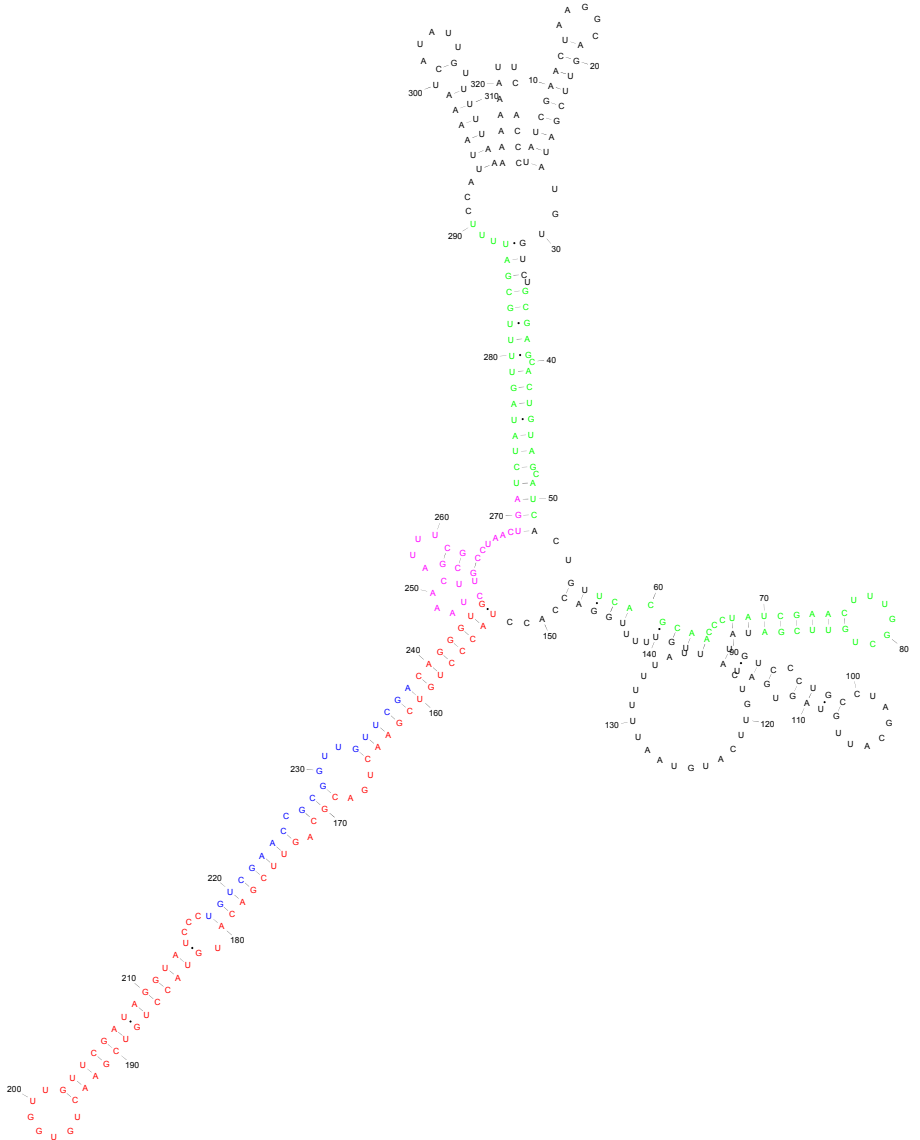













A-U
 U-A
 G-C
 A-U
 G-C
 G-C
 G-C
 A-U
 G-C
 140-G-C-10
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 A-U
 G-C
 G-C
 G A
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 A-U
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 130-A-U-20
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 G-C
 A-U
 C-G
 C-G
 U-A
 80-G-C-70
 U-A
 C-G
 C U
 G A
 A

