

SUPPLEMENTARY DATA

Supplemental Table 1. small RNA abundance of sperm.										p-value	p-value	p-value	p-value
small RNA		Sed Mean	Chow SEM	Train Mean	Chow SEM	Sed Mean	High-Fat SEM	Train Mean	High-Fat SEM	Sed vs. T Chow	Sed Chow vs. HF	T Chow vs. T HF	Sed vs. T HF
Mir22_seq	miR1	3,621.04	1,091.78	1,640.19	518.67	4,149.09	1,251.00	5,780.95	1,828.10	0.0316	0.6448	0.0349	0.4066
Mir21a_seq	miR1	772.12	232.80	321.85	101.78	1,512.22	455.95	1,201.21	379.86	0.0399	0.1341	0.0495	0.6131
Mir181a-2_seq	miR1	791.61	238.68	305.85	96.72	946.46	285.37	1,042.74	329.74	0.0163	0.5816	0.0244	0.7943
Mir181a-1_seq	miR1	741.45	223.56	319.95	101.18	953.64	287.53	1,026.53	324.62	0.0346	0.4655	0.0245	0.8427
Mir30a_seq	miR1	786.74	237.21	374.40	118.39	932.27	281.09	915.54	289.52	0.0386	0.6381	0.0209	0.9602
Mirlet7i_seq	miR1	540.94	163.10	230.84	73.00	607.14	183.06	810.11	256.18	0.0714	0.7578	0.0356	0.4885
Mir5103_seq	miR1	172.62	52.05	77.59	24.53	152.65	46.03	1,349.39	426.72	0.0399	0.7182	0.1640	0.1698
Mir30d_seq	miR1	393.76	118.72	190.56	60.26	570.82	172.11	489.04	154.65	0.0441	0.2956	0.0288	0.6689
Mir146b_seq	miR1	185.62	55.97	73.95	23.38	377.84	113.92	389.82	123.27	0.0046	0.1112	0.0899	0.9540
Mir125a_seq	miR1	190.41	57.41	88.27	27.91	199.31	60.10	197.50	62.45	0.0483	0.9051	0.1246	0.9838
Mirlet7e_seq	miR1	121.64	36.68	75.50	23.88	192.54	58.05	161.86	51.19	0.1486	0.4250	0.0458	0.7480
Mir205_seq	miR1	121.21	36.55	48.25	15.26	156.94	47.32	99.07	31.33	0.0438	0.5057	0.1557	0.3011
Mir101a_seq	miR1	117.27	35.36	37.93	12.00	151.68	45.73	115.18	36.42	0.0297	0.5407	0.0187	0.5146
Mir181c_seq	miR1	107.47	32.40	48.01	15.18	138.94	41.89	94.68	29.94	0.0313	0.6033	0.0178	0.4651
Mir133a-2_seq	miR1	36.06	10.87	13.01	4.11	24.16	7.29	255.27	80.72	0.0388	0.3124	0.2903	0.2905
Mir103-1_seq	miR1	67.79	20.44	34.37	10.87	78.19	23.58	70.65	22.34	0.1394	0.7003	0.0417	0.7532
Mir181b-2_seq	miR1	63.01	19.00	23.73	7.50	64.54	19.46	72.43	22.91	0.0327	0.9500	0.0181	0.7634
Mir181b-1_seq	miR1	63.82	19.24	21.42	6.77	64.78	19.53	68.15	21.55	0.0144	0.9661	0.0211	0.8923
Mir148b_seq	miR1	59.03	17.80	25.29	8.00	71.10	21.44	48.31	15.28	0.0245	0.5565	0.1066	0.2803
Mirlet7j_seq	miR1	49.22	14.84	16.83	5.32	64.09	19.32	71.68	22.67	0.0609	0.5041	0.0238	0.7795
Mir465c-2_seq	miR1	34.91	10.53	58.30	18.44	53.23	16.05	48.03	15.19	0.0489	0.3563	0.4673	0.8117
Mir126a_seq	miR1	46.82	14.12	13.34	4.22	66.97	20.19	36.69	11.60	0.0186	0.5561	0.0328	0.3855
Mir199a-2_seq	miR1	46.97	14.16	16.11	5.09	56.12	16.92	45.59	14.42	0.0815	0.7121	0.0111	0.6329
Mir199a-1_seq	miR1	36.97	11.15	16.82	5.32	53.65	16.17	51.64	16.33	0.0551	0.4344	0.0131	0.9314
Mir98_seq	miR1	25.96	7.83	14.69	4.65	51.41	15.50	60.65	19.18	0.1045	0.0862	0.0367	0.7004
Mir199b_seq	miR1	36.90	11.13	14.24	4.50	48.10	14.50	52.00	16.44	0.0089	0.5348	0.0053	0.8503
Mir100_seq	miR1	31.64	9.54	16.34	5.17	33.38	10.06	45.47	14.38	0.0357	0.8789	0.0150	0.4062

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Mir465b-1_seq	miR1	16.43	4.95	30.96	9.79	35.13	10.59	31.28	9.89	0.0196	0.0859	0.9734	0.7663
Mir126b_seq	miR1	29.88	9.01	11.20	3.54	48.12	14.51	21.01	6.64	0.0473	0.4561	0.1346	0.2772
Mir541_seq	miR1	20.85	6.29	8.93	2.82	30.86	9.31	45.85	14.50	0.0319	0.2152	0.0506	0.4173
Mir107_seq	miR1	34.46	10.39	10.03	3.17	33.62	10.14	22.39	7.08	0.0476	0.9525	0.1150	0.3340
Mir3470b_seq	miR1	31.63	9.54	13.19	4.17	19.11	5.76	32.70	10.34	0.0167	0.0816	0.0527	0.1511
Mir200c_seq	miR1	20.47	6.17	10.11	3.20	29.06	8.76	34.59	10.94	0.0415	0.4946	0.2806	0.8219
Mir210_seq	miR1	15.14	4.56	5.52	1.75	36.15	10.90	22.29	7.05	0.0223	0.1151	0.0078	0.3309
Mir1895_seq	miR1	18.64	5.62	31.80	10.06	12.68	3.82	14.59	4.61	0.0492	0.2274	0.0140	0.6940
Mir6236_seq	miR1	22.57	6.81	8.99	2.84	12.68	3.82	20.31	6.42	0.0251	0.0934	0.2042	0.3757
Mir1843b_seq	miR1	17.75	5.35	5.28	1.67	20.01	6.03	18.54	5.86	0.0286	0.7819	0.0119	0.8565
Mir465_seq	miR1	9.87	2.98	24.60	7.78	12.56	3.79	12.70	4.01	0.0413	0.5826	0.1093	0.9795
Mir455_seq	miR1	21.52	6.49	4.49	1.42	17.81	5.37	13.37	4.23	0.0432	0.7092	0.0602	0.5746
Mir532_seq	miR1	14.70	4.43	7.17	2.27	16.47	4.97	19.42	6.14	0.0290	0.7173	0.0665	0.6853
Mir31_seq	miR1	16.59	5.00	3.86	1.22	20.99	6.33	6.83	2.16	0.0492	0.6597	0.0668	0.1085
Mir29c_seq	miR1	11.45	3.45	3.55	1.12	13.82	4.17	8.44	2.67	0.0271	0.6576	0.0685	0.2979
Mir671_seq	miR1	9.37	2.83	3.87	1.22	10.30	3.11	14.07	4.45	0.1940	0.8745	0.0083	0.5073
Mir8112_seq	miR1	7.10	2.14	8.67	2.74	5.48	1.65	3.20	1.01	0.5296	0.6017	0.0029	0.3895
Mir1946a_seq	miR1	9.16	2.76	2.74	0.86	2.16	0.65	9.71	3.07	0.0532	0.0300	0.1608	0.1149
Mir322_seq	miR1	5.32	1.60	1.82	0.57	8.69	2.62	7.00	2.21	0.0344	0.3146	0.0519	0.6685
Mir3074-1_seq	miR1	6.23	1.88	2.08	0.66	5.20	1.57	8.83	2.79	0.0543	0.6071	0.0211	0.1773
Mir574_seq	miR1	5.34	1.61	1.48	0.47	6.12	1.85	9.21	2.91	0.0613	0.7907	0.0079	0.3780
Mir335_seq	miR1	5.65	1.70	0.87	0.27	9.58	2.89	4.67	1.48	0.0286	0.4412	0.0563	0.3519
Mir3473e_seq	miR1	5.34	1.61	1.23	0.39	7.01	2.11	4.67	1.48	0.0705	0.6823	0.0387	0.5555
Mir497b_seq	miR1	6.40	1.93	2.10	0.66	5.01	1.51	4.40	1.39	0.0413	0.5792	0.1047	0.7750
Mir410_seq	miR1	2.11	0.64	3.08	0.97	5.86	1.77	6.95	2.20	0.4432	0.0469	0.1747	0.7188
Mir497_seq	miR1	7.10	2.14	1.95	0.62	5.30	1.60	2.83	0.89	0.0080	0.5233	0.4202	0.3390
Mir136_seq	miR1	5.19	1.57	1.04	0.33	4.88	1.47	6.13	1.94	0.0057	0.8772	0.0230	0.6283
Mir33_seq	miR1	6.87	2.07	0.67	0.21	3.18	0.96	4.43	1.40	0.0082	0.1207	0.0075	0.4522
Mir5112_seq	miR1	4.85	1.46	0.59	0.19	5.30	1.60	2.96	0.94	0.0094	0.8561	0.0133	0.3145
Mir381_seq	miR1	2.85	0.86	0.56	0.18	2.72	0.82	7.14	2.26	0.0291	0.9294	0.1007	0.2610

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Mir501_seq	miR1	3.05	0.92	0.52	0.17	2.75	0.83	5.94	1.88	0.0461	0.8228	0.0342	0.1960
Mir155_seq	miR1	2.43	0.73	0.56	0.18	3.48	1.05	5.74	1.81	0.1318	0.5537	0.0148	0.3392
Mir7222_seq	miR1	4.26	1.28	0.57	0.18	2.65	0.80	4.20	1.33	0.1225	0.5780	0.0220	0.5190
Mir187_seq	miR1	2.27	0.69	0.76	0.24	2.21	0.67	3.21	1.01	0.1830	0.9700	0.0412	0.5627
Mir129-2_seq	miR1	1.13	0.34	0.56	0.18	1.24	0.37	2.67	0.84	0.3258	0.8823	0.0425	0.1930
Mir3065_seq	miR1	0.19	0.06	2.39	0.75	1.76	0.53	0.61	0.19	0.2921	0.0426	0.4175	0.1674
Mir1947_seq	miR1	0.69	0.21	0.11	0.04	1.10	0.33	2.07	0.66	0.2046	0.5226	0.0301	0.3075
Mir466i_seq	miR1	0.00	0.00	0.25	0.08	1.73	0.52	1.24	0.39	0.0295	0.0122	0.0987	0.5783
Mir202_seq	miR1	0.00	0.00	0.51	0.16	0.74	0.22	1.88	0.59	0.1590	0.0273	0.4143	0.4731
Mir344f_seq	miR1	1.48	0.45	0.08	0.03	1.19	0.36	0.00	0.00	0.2105	0.8042	0.3293	0.0490
Mir5131_seq	miR1	0.07	0.02	0.43	0.14	1.96	0.59	0.29	0.09	0.1889	0.0148	0.6608	0.0404
Mir219a-1_seq	miR1	0.00	0.00	0.25	0.08	0.87	0.26	1.50	0.48	0.1499	0.0131	0.0926	0.4012
Mirlet7k_seq	miR1	1.10	0.33	0.04	0.01	1.33	0.40	0.00	0.00	0.2341	0.8199	0.3293	0.0323
Mir1306_seq	miR1	1.01	0.30	0.06	0.02	0.42	0.13	0.88	0.28	0.0290	0.1977	0.1442	0.4231
Mir5122_seq	miR1	1.15	0.35	0.00	0.00	0.19	0.06	0.71	0.23	0.1858	0.2495	0.0248	0.1095
Mir500_seq	miR1	0.00	0.00	0.00	0.00	1.38	0.42	0.56	0.18	#DIV/0!	0.0240	0.2138	0.2743
Mir5620_seq	miR1	0.00	0.00	0.81	0.26	0.38	0.11	0.45	0.14	0.0448	0.3282	0.4669	0.8833
Mir8093_seq	miR1	0.15	0.05	0.00	0.00	1.15	0.35	0.12	0.04	0.3502	0.0246	0.3293	0.0223
Mir370_seq	miR1	0.00	0.00	0.16	0.05	0.53	0.16	0.00	0.00	0.3071	0.0453	0.3293	0.0554
pi-Ccrn4l.2	piRs	63.42	19.12	26.88	8.50	33.88	10.21	70.51	22.30	0.0376	0.0903	0.1499	0.2116
pi-Fth1.1	piRs	40.15	12.10	19.91	6.30	46.90	14.14	69.36	21.93	0.0235	0.6120	0.2132	0.5642
pi-Hjurp.2	piRs	60.60	18.27	20.16	6.37	37.47	11.30	48.26	15.26	0.0521	0.2698	0.0427	0.4804
pi-Cbx5.4	piRs	44.18	13.32	18.44	5.83	27.34	8.24	31.36	9.92	0.0438	0.1939	0.2025	0.7135
pi-Tacc1.5	piRs	42.75	12.89	15.34	4.85	21.39	6.45	29.01	9.17	0.0455	0.1052	0.1828	0.4509
pi-Mrs2.3	piRs	21.02	6.34	8.40	2.66	14.54	4.38	59.21	18.73	0.0111	0.2431	0.1549	0.1904
pi-Mrs2.4	piRs	21.59	6.51	9.20	2.91	17.22	5.19	44.63	14.11	0.0447	0.5047	0.1544	0.2491
pi-Fbxl18.3	piRs	26.35	7.94	11.32	3.58	17.48	5.27	23.62	7.47	0.0489	0.2816	0.0813	0.4369
pi-Ing5.1	piRs	28.05	8.46	10.22	3.23	11.71	3.53	14.82	4.69	0.0421	0.0359	0.4202	0.4854
pi-Fbxo41.1	piRs	21.93	6.61	6.42	2.03	15.37	4.63	17.21	5.44	0.0190	0.3708	0.0690	0.7937
pi-Tef.3	piRs	15.32	4.62	5.99	1.89	10.55	3.18	9.71	3.07	0.0415	0.3741	0.2764	0.8598

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pi-D10Wsu102e.1	piRs	13.24	3.99	3.31	1.05	5.89	1.77	8.38	2.65	0.0295	0.1044	0.2029	0.5415
13-qA5-208.3	piRs	6.28	1.89	2.07	0.66	10.52	3.17	7.98	2.52	0.0091	0.3890	0.0475	0.6513
pi-Smcr8.2	piRs	1.32	0.40	2.80	0.89	1.91	0.57	0.25	0.08	0.2005	0.4658	0.0195	0.0102
pi-Hist1h1a.2	piRs	1.41	0.43	0.23	0.07	0.74	0.22	1.42	0.45	0.0751	0.3583	0.0370	0.3093
pi-Ip6k1.12	piRs	0.50	0.15	0.36	0.11	0.23	0.07	0.00	0.00	0.7076	0.4726	0.0479	0.2353
RLTR4I_MM:ERV1	rmsk	641.28	193.35	368.53	116.54	726.74	219.12	1,490.47	471.33	0.0136	0.6342	0.1236	0.2772
RLTR4_MM:ERV1	rmsk	55.93	16.86	31.06	9.82	72.74	21.93	71.53	22.62	0.0487	0.3574	0.0554	0.9601
IAPEY5_I:ERV2	rmsk	6.90	2.08	1.80	0.57	3.56	1.07	4.36	1.38	0.0462	0.1928	0.2344	0.7225
RMER17B2:ERV2	rmsk	4.24	1.28	1.85	0.59	0.92	0.28	1.88	0.59	0.1324	0.0112	0.9831	0.2332
IAPEY5_LTR:ERV2	rmsk	1.88	0.57	0.22	0.07	1.82	0.55	4.88	1.54	0.0346	0.9595	0.2110	0.4049
RMER6C:ERV2	rmsk	3.03	0.91	0.61	0.19	1.82	0.55	2.53	0.80	0.0475	0.3554	0.1279	0.6058
LX5c:L1	rmsk	3.25	0.98	0.63	0.20	1.45	0.44	2.01	0.63	0.0212	0.1037	0.1445	0.5586
LX9:L1	rmsk	1.48	0.45	1.15	0.37	1.27	0.38	3.25	1.03	0.6980	0.7946	0.0421	0.0493
L1MdA_V:L1	rmsk	2.87	0.86	0.32	0.10	0.48	0.14	1.25	0.39	0.0134	0.0180	0.2089	0.3029
LTRIS_Mus:ERV1	rmsk	0.25	0.08	0.56	0.18	1.21	0.36	2.05	0.65	0.4262	0.0433	0.3402	0.5742
LX5:L1	rmsk	0.15	0.05	0.95	0.30	1.36	0.41	1.58	0.50	0.0503	0.0459	0.4135	0.7998
LX6:L1	rmsk	1.49	0.45	0.04	0.01	0.94	0.28	1.00	0.32	0.1006	0.5438	0.0422	0.9112
RLTR48A:ERV1	rmsk	0.00	0.00	0.76	0.24	1.19	0.36	1.44	0.46	0.0694	0.0149	0.5268	0.8073
B1F:SINE1/7SL	rmsk	1.73	0.52	0.00	0.00	0.35	0.11	0.80	0.25	0.0202	0.0606	0.1400	0.4233
RLTR11C_MM:ERV2	rmsk	1.70	0.51	0.15	0.05	0.76	0.23	0.21	0.07	0.1676	0.4093	0.7585	0.2423
LTRIS6:ERV1	rmsk	0.89	0.27	0.23	0.07	0.17	0.05	1.32	0.42	0.2741	0.2241	0.0623	0.0468
LTRIS4A:ERV1	rmsk	1.64	0.49	0.38	0.12	0.17	0.05	0.24	0.08	0.0853	0.0383	0.5262	0.7687
RLTR33_MM:ERV3	rmsk	1.37	0.41	0.00	0.00	0.18	0.05	0.88	0.28	0.0485	0.0801	0.1065	0.2014
RLTR1A2_MM:ERV1	rmsk	0.25	0.08	0.16	0.05	1.57	0.47	0.06	0.02	0.6707	0.0726	0.4537	0.0452
RLTR16:ERV2	rmsk	0.34	0.10	0.32	0.10	0.31	0.09	0.00	0.00	0.9553	0.9473	0.0489	0.3502
chr3.trna747-HisGTG	tRFs	2,742.16	826.79	3,053.16	965.49	3,188.14	961.26	2,405.25	760.61	0.4619	0.2378	0.1424	0.0488
chr2.trna1431-HisGTG	tRFs	2,773.48	836.24	3,042.35	962.08	3,176.01	957.60	2,387.36	754.95	0.5202	0.2885	0.1272	0.0442
chr1.trna702-GlyGCC	tRFs	1,671.69	504.03	1,392.07	440.21	3,526.48	1,063.27	3,134.03	991.07	0.0288	0.0055	0.1610	0.7658
chr1.trna704-GlyGCC	tRFs	1,678.64	506.13	1,381.10	436.74	3,518.06	1,060.74	3,120.33	986.74	0.0241	0.0050	0.1586	0.7601
chr1.trna706-GlyGCC	tRFs	1,682.68	507.35	1,375.77	435.06	3,523.75	1,062.45	3,082.89	974.90	0.0224	0.0061	0.1684	0.7379

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chr3.trna287-GlyCCC	tRFs	961.03	289.76	527.76	166.89	4,288.63	1,293.07	1,417.73	448.33	0.0396	0.0011	0.0550	0.0091
chr3.trna755-GlyCCC	tRFs	942.18	284.08	497.22	157.24	4,258.58	1,284.01	1,349.59	426.78	0.0312	0.0008	0.0631	0.0069
chr17.trna81-LysCTT	tRFs	1,283.00	386.84	1,458.59	461.25	1,836.97	553.87	1,136.63	359.43	0.4245	0.0438	0.2784	0.0408
chr17.trna83-LysCTT	tRFs	1,289.28	388.73	1,427.85	451.53	1,821.34	549.15	1,151.73	364.21	0.5192	0.0488	0.3408	0.0460
chr11.trna2023-LysCTT	tRFs	1,276.17	384.78	1,450.12	458.57	1,821.61	549.24	1,123.23	355.20	0.4148	0.0452	0.2712	0.0427
chr9.trna961-GluTTC	tRFs	1,468.10	442.65	1,785.18	564.52	1,022.82	308.39	1,131.71	357.88	0.3448	0.0765	0.0496	0.6108
chr14.trna352-GluTTC	tRFs	1,444.24	435.45	1,772.71	560.58	1,070.35	322.72	1,107.31	350.16	0.3483	0.1551	0.0460	0.8597
chr7.trna339-GluTTC	tRFs	1,454.97	438.69	1,763.51	557.67	1,059.37	319.41	1,099.15	347.58	0.3608	0.1195	0.0440	0.8505
chr13.trna97-ValCAC	tRFs	795.93	239.98	405.88	128.35	1,273.83	384.08	521.38	164.88	0.0027	0.0222	0.1894	0.0006
chr13.trna98-ValCAC	tRFs	680.13	205.07	357.06	112.91	1,172.52	353.53	564.67	178.56	0.0021	0.0349	0.0296	0.0139
chr13.trna974-ValAAC	tRFs	715.21	215.64	349.54	110.54	1,059.35	319.41	455.28	143.97	0.0016	0.0725	0.1870	0.0028
chr13.trna93-ValAAC	tRFs	704.13	212.30	345.58	109.28	1,062.50	320.36	452.47	143.08	0.0011	0.0574	0.1523	0.0023
chr13.trna977-ValAAC	tRFs	699.78	210.99	341.35	107.94	1,039.59	313.45	453.70	143.47	0.0028	0.0732	0.1096	0.0023
chr4.trna67-GlyCCC	tRFs	353.08	106.46	212.89	67.32	961.39	289.87	326.11	103.12	0.0065	0.0069	0.0230	0.0071
chr3.trna752-GlyCCC	tRFs	365.18	110.11	213.53	67.52	963.50	290.51	305.77	96.69	0.0032	0.0090	0.0402	0.0064
chr13.trna95-ValAAC	tRFs	333.31	100.50	185.36	58.62	620.57	187.11	286.75	90.68		0.0705	0.1624	0.0508
chr13.trna78-MetCAT	tRFs	296.04	89.26	317.46	100.39	366.90	110.63	246.85	78.06	0.7145	0.1777	0.2029	0.0165
chr13.trna959-MetCAT	tRFs	303.38	91.47	302.85	95.77	372.98	112.46	243.76	77.08	0.9918	0.1234	0.2362	0.0043
chr13.trna995-MetCAT	tRFs	306.15	92.31	313.26	99.06	376.94	113.65	225.48	71.30	0.8918	0.1243	0.0958	0.0017
chr10.trna867-TrpCCA	tRFs	292.06	88.06	440.59	139.33	267.04	80.52	226.53	71.64	0.2297	0.7940	0.0449	0.5539
chr13.trna111-MetCAT	tRFs	296.44	89.38	297.03	93.93	356.33	107.44	254.97	80.63	0.9907	0.1917	0.4329	0.0422
chr13.trna108-MetCAT	tRFs	297.33	89.65	294.55	93.14	361.66	109.05	242.58	76.71	0.9578	0.1671	0.3122	0.0107
chr3.trna792-MetCAT	tRFs	294.84	88.90	304.27	96.22	356.72	107.56	239.60	75.77	0.8636	0.1908	0.2508	0.0183
chr13.trna90-MetCAT	tRFs	289.10	87.17	301.16	95.23	361.97	109.14	240.78	76.14	0.8248	0.1251	0.2628	0.0112
chr13.trna82-MetCAT	tRFs	297.33	89.65	285.18	90.18	347.97	104.92	221.89	70.17	0.8057	0.2937	0.2092	0.0141
chr3.trna754-GluTTC	tRFs	121.55	36.65	100.18	31.68	233.30	70.34	158.80	50.22	0.2132	0.0078	0.1665	0.1768
chr3.trna286-GluTTC	tRFs	120.59	36.36	108.25	34.23	222.59	67.11	156.84	49.60	0.4641	0.0028	0.2675	0.1928
chr1.trna1002-AspGTC	tRFs	85.30	25.72	101.44	32.08	139.05	41.92	112.00	35.42	0.4880	0.0293	0.6852	0.3046
chr1.trna1008-AspGTC	tRFs	86.03	25.94	99.99	31.62	140.17	42.26	111.30	35.20	0.5401	0.0316	0.6282	0.2476
chr13.trna993-AspGTC	tRFs	80.14	24.16	105.30	33.30	139.65	42.11	111.76	35.34	0.2948	0.0146	0.8111	0.2876

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chr5.trna1317-AspGTC	tRFs	76.29	23.00	98.46	31.13	143.64	43.31	118.34	37.42	0.3232	0.0081	0.4287	0.3357
chr11.trna69-AspGTC	tRFs	83.38	25.14	91.13	28.82	144.66	43.62	116.23	36.76	0.7429	0.0207	0.3037	0.2718
chr13.trna991-AspGTC	tRFs	79.84	24.07	100.54	31.79	141.92	42.79	113.37	35.85	0.3601	0.0162	0.6256	0.3075
chr1.trna1005-AspGTC	tRFs	78.32	23.61	99.03	31.32	132.75	40.02	122.06	38.60	0.4086	0.0443	0.4052	0.7057
chr1.trna707-AspGTC	tRFs	84.41	25.45	99.57	31.49	134.00	40.40	110.56	34.96	0.4668	0.0500	0.6048	0.3522
chr10.trna861-AspGTC	tRFs	89.98	27.13	95.22	30.11	139.18	41.96	99.12	31.34	0.8267	0.0446	0.8844	0.1349
chr3.trna293-HisGTG	tRFs	43.82	13.21	18.11	5.73	229.61	69.23	57.55	18.20	0.0070	0.0027	0.0502	0.0088
chr5.trna1610-AspGTC	tRFs	60.53	18.25	70.94	22.43	111.75	33.70	86.47	27.34	0.6380	0.0347	0.4766	0.2754
chr6.trna157-CysGCA	tRFs	81.22	24.49	77.29	24.44	85.73	25.85	54.82	17.33	0.7884	0.7482	0.1125	0.0268
chr11.trna1433-CysGCA	tRFs	84.41	25.45	69.11	21.85	86.69	26.14	54.83	17.34	0.4063	0.8957	0.3470	0.0344
chr11.trna791-CysGCA	tRFs	76.95	23.20	77.45	24.49	86.14	25.97	53.43	16.89	0.9755	0.5550	0.0864	0.0174
chr3.trna749-HisGTG	tRFs	33.07	9.97	32.45	10.26	114.22	34.44	50.84	16.08	0.9369	0.0009	0.1306	0.0135
chr19.trna713-SerGCT	tRFs	21.51	6.48	27.46	8.68	23.62	7.12	16.22	5.13	0.2573	0.6832	0.0136	0.0979
chr2.trna1509-SerGCT	tRFs	16.91	5.10	28.29	8.94	17.59	5.30	15.08	4.77	0.0126	0.8424	0.0206	0.5817
chr13.trna982-SerGCT	tRFs	18.09	5.45	21.22	6.71	22.12	6.67	13.88	4.39	0.5579	0.4199	0.0958	0.0443
chr11.trna206-ThrTGT	tRFs	19.54	5.89	21.40	6.77	19.70	5.94	13.90	4.39	0.6781	0.9681	0.0307	0.0611
chr15.trna876-MetCAT	tRFs	16.80	5.06	21.69	6.86	18.23	5.50	10.59	3.35	0.4482	0.8000	0.0385	0.0785
chr13.trna988-SerGCT	tRFs	16.48	4.97	21.86	6.91	15.50	4.67	10.88	3.44	0.3465	0.8388	0.0199	0.1766
chr11.trna1822-ThrAGT	tRFs	7.93	2.39	15.92	5.03	20.15	6.07	20.86	6.60	0.0177	0.1465	0.6114	0.9537
chr13.trna81-ThrAGT	tRFs	5.70	1.72	12.43	3.93	9.17	2.77	9.06	2.86	0.0355	0.2444	0.3504	0.9733
chr13.trna1053-LysCTT	tRFs	11.27	3.40	2.80	0.88	9.37	2.82	10.84	3.43	0.0410	0.6729	0.0656	0.7576
chr11.trna1820-TrpCCA	tRFs	8.88	2.68	9.84	3.11	9.74	2.94	4.38	1.39	0.7372	0.7069	0.0449	0.0103
chr6.trna1021-CysGCA	tRFs	6.97	2.10	10.81	3.42	5.75	1.73	4.69	1.48	0.1192	0.5632	0.0175	0.6112
chr6.trna1026-CysGCA	tRFs	4.22	1.27	6.05	1.91	8.05	2.43	7.94	2.51	0.2520	0.0238	0.4522	0.9641
chr6.trna1022-CysGCA	tRFs	6.24	1.88	10.27	3.25	5.11	1.54	4.70	1.48	0.1273	0.5992	0.0378	0.8432
chr6.trna1031-CysGCA	tRFs	4.93	1.49	9.93	3.14	6.13	1.85	4.41	1.39	0.0317	0.6377	0.0175	0.5004
chr6.trna168-CysGCA	tRFs	6.91	2.08	9.38	2.97	5.18	1.56	3.59	1.14	0.1576	0.4077	0.0049	0.4770
chr6.trna172-CysGCA	tRFs	5.95	1.79	7.91	2.50	6.58	1.98	3.62	1.14	0.3514	0.7828	0.0249	0.1653
chr6.trna1006-CysGCA	tRFs	6.45	1.94	7.55	2.39	6.40	1.93	3.58	1.13	0.6134	0.9838	0.0437	0.1717
chr6.trna163-CysGCA	tRFs	6.30	1.90	9.17	2.90	5.05	1.52	3.49	1.10	0.3244	0.5499	0.0460	0.3808

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chr6.tRNA161-CysGCA	tRFs	5.66	1.71	7.44	2.35	6.54	1.97	2.91	0.92	0.3891	0.7237	0.0281	0.1496
chr13.tRNA96-AlaAGC	tRFs	4.18	1.26	2.09	0.66	8.92	2.69	7.08	2.24	0.2798	0.2833	0.0288	0.6926
chr6.tRNA1012-CysGCA	tRFs	7.37	2.22	6.60	2.09	3.64	1.10	2.29	0.72	0.7454	0.1030	0.0253	0.4236
chr13.tRNA973-TyrGTA	tRFs	7.29	2.20	1.77	0.56	6.04	1.82	4.15	1.31	0.0822	0.7050	0.0036	0.2903
chr19.tRNA106-PheGAA	tRFs	2.78	0.84	6.57	2.08	5.52	1.66	4.22	1.34	0.0564	0.0194	0.3179	0.4277
chr13.tRNA970-TyrGTA	tRFs	6.05	1.83	1.46	0.46	3.90	1.17	4.12	1.30	0.1601	0.5120	0.0319	0.8931
chr13.tRNA1004-SerGCT	tRFs	3.14	0.95	0.97	0.31	2.05	0.62	2.65	0.84	0.0415	0.3412	0.0525	0.5505
chr6.tRNA176-CysGCA	tRFs	1.19	0.36	3.79	1.20	2.26	0.68	1.45	0.46	0.0251	0.1825	0.0652	0.3782
chr6.tRNA1033-CysGCA	tRFs	0.78	0.23	1.50	0.47	2.62	0.79	1.49	0.47	0.2052	0.0412	0.9899	0.3486
chr13.tRNA983-ThrAGT	tRFs	1.78	0.54	0.08	0.03	0.52	0.16	1.12	0.35	0.0399	0.1359	0.0945	0.3784
chr6.tRNA167-CysGCA	tRFs	0.59	0.18	0.84	0.27	1.52	0.46	0.06	0.02	0.5813	0.1986	0.0453	0.0434
chr9.tRNA1100-AlaAGC	tRFs	0.00	0.00	0.74	0.23	1.14	0.34	0.45	0.14	0.0458	0.0742	0.4983	0.3131