

Supplementary Table I. tRF5s in CSF

	baseMean
tRF5-Ala-AGC-4-1	150.90594
tRF5-Ala-CGC-2-1	145.8021
tRF5-Ala-CGC-3-1	150.08928
tRF5-Ala-TGC-3-2	148.25036
tRF5-Glu-CTC-2-1	58682.005
tRF5-Glu-CTC-3-1	18.847998
tRF5-Glu-TTC-1-2	977.3557
tRF5-Glu-TTC-2-2	2160.5129
tRF5-Glu-TTC-8-1	1504.0403
tRF5-Glu-TTC-9-1	1772.6891
tRF5-Glu-TTC-chr1-138	946.36984
tRF5-Gly-CAC-chr1-94	22.995849
tRF5-Gly-CCC-2-2	293.48529
tRF5-Gly-CCC-6-1	160.00458
tRF5-Gly-CCC-chr1-135	515.04147
tRF5-Gly-CCC-chr1-2	161.44766
tRF5-Gly-CCC-chr1-33	128.25095
tRF5-Gly-GCC-1-5	14911.068
tRF5-Gly-GCC-3-1	187935.24
tRF5-Gly-GCC-4-1	373.11248
tRF5-Gly-TCC-2-6	137.56093
tRF5-Gly-TCC-3-1	57.334476
tRF5-His-GTG-1-8	978.2619
tRF5-His-GTG-2-1	136.44714
tRF5-iMet-CAT-1-8	55.357909
tRF5-Leu-AAG	2208.033
tRF5-Leu-CAG-2-1	199.3295
tRF5-Leu-TAG-2-1	22.887193
tRF5-Lys-CTT-11-1	110.79453
tRF5-Lys-CTT-14-1	68.582885
tRF5-Lys-CTT-16-1	110.55262
tRF5-Lys-CTT-2-5	1884.2444
tRF5-Lys-CTT-5-1	167.7888
tRF5-Lys-CTT-6-1	1233.3504
tRF5-Lys-CTT-7-1	116.04969
tRF5-Lys-TTT-2-1	10.049157
tRF5-Lys-TTT-4-1	88.569013
tRF5-Lys-TTT-5-1	348.80487
tRF5-Lys-TTT-6-1	91.664387
tRF5-nm-Tyr-GTA-chr14-8	23.321725
tRF5-Pro-AGG	1316.0711
tRF5-SeC-TCA-2-1	216.92775
tRF5-Ser-GCT-4-3	16.196982
tRF5-Ser-TGA-2-1	840.63498
tRF5-Thr-CGT-6-1	47.73776
tRF5-Tyr-GTA-11-1	16.718652
tRF5-Und-NNN-4-1	127.40021
tRF5-Val-AAC-2-1	190.13502
tRF5-Val-CAC-2-1	417.81343
tRF5-Val-CAC-3-1	75.033558
tRF5-Val-CAC-6-1	19.370887
tRF5-Val-CAC-7-1	50.499703
tRF5-Val-CAC-8-1	27.648412
tRF5-Val-CAC-chr1-93	7131.9227
tRF5-Val-TAC-1-2	55.508517
tRF5-Val-TAC-2-1	27.557126
tRF5-Val-TAC-4-1	42.701139

Supplementary Table II. tRF5s in serum

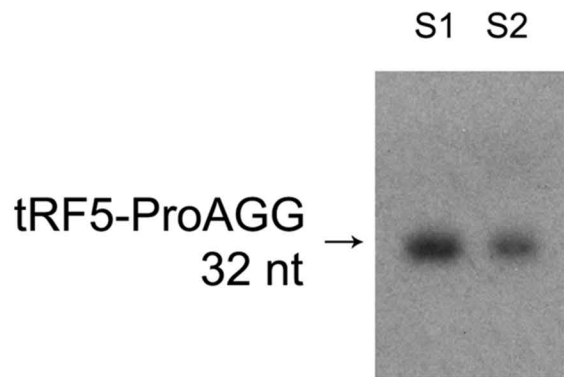
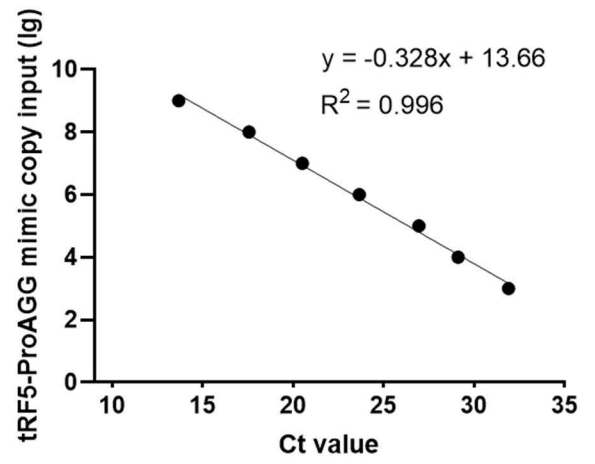
	baseMean
tRF5-Gly-GCC-3-1	22772.5565
tRF5-Glu-CTC-2-1	4774.702
tRF5-Gly-GCC-1-5	2649.23271
tRF5-Glu-TTC-9-1	308.407606
tRF5-SeC-TCA-2-1	273.028417
tRF5-Lys-CTT-6-1	169.133264
tRF5-Gly-CCC-chr1-135	74.4724899
tRF5-Glu-TTC-chr1-138	74.1945657
tRF5-Glu-TTC-8-1	66.1942701
tRF5-Pro-AGG	56.2783515
tRF5-Lys-CTT-2-5	46.1853753
tRF5-Gly-GCC-4-1	41.7669172
tRF5-Glu-TTC-2-2	41.1825228
tRF5-Gly-CCC-6-1	37.5471038
tRF5-Gly-CCC-2-2	37.0879382
tRF5-Gly-CCC-chr1-33	31.736231
tRF5-Gly-CCC-chr1-2	26.5472214
tRF5-His-GTG-1-8	16.8115199
tRF5-Lys-TTT-6-1	15.2488906
tRF5-Lys-TTT-5-1	14.3527658
tRF5-Glu-TTC-1-2	13.4786859
tRF5-Lys-TTT-4-1	12.2951314
tRF5-Leu-AAG	9.50632559
tRF5-Lys-CTT-11-1	8.91468219
tRF5-Ala-CGC-2-1	8.88383544
tRF5-nm-Tyr-GTA-chr14	8.60655315
tRF5-Gly-CCC-7-1	8.27437544
tRF5-Ser-TGA-2-1	7.58145221
tRF5-Ala-TGC-3-2	6.83385542
tRF5-Val-CAC-chr1-93	6.45580564
tRF5-Lys-CTT-7-1	5.87455399
tRF5-Ala-AGC-4-1	5.47630926
tRF5-Thr-CGT-6-1	4.79289849
tRF5-Val-CAC-2-1	4.28938311
tRF5-iMet-CAT-1-8	4.08140927
tRF5-Und-NNN-4-1	3.07484388
tRF5-Lys-CTT-16-1	2.98183773
tRF5-Gly-TCC-3-1	1.41144735
tRF5-Ser-GCT-4-3	1.2733108

Supplementary Table III. Clinical information of serum samples

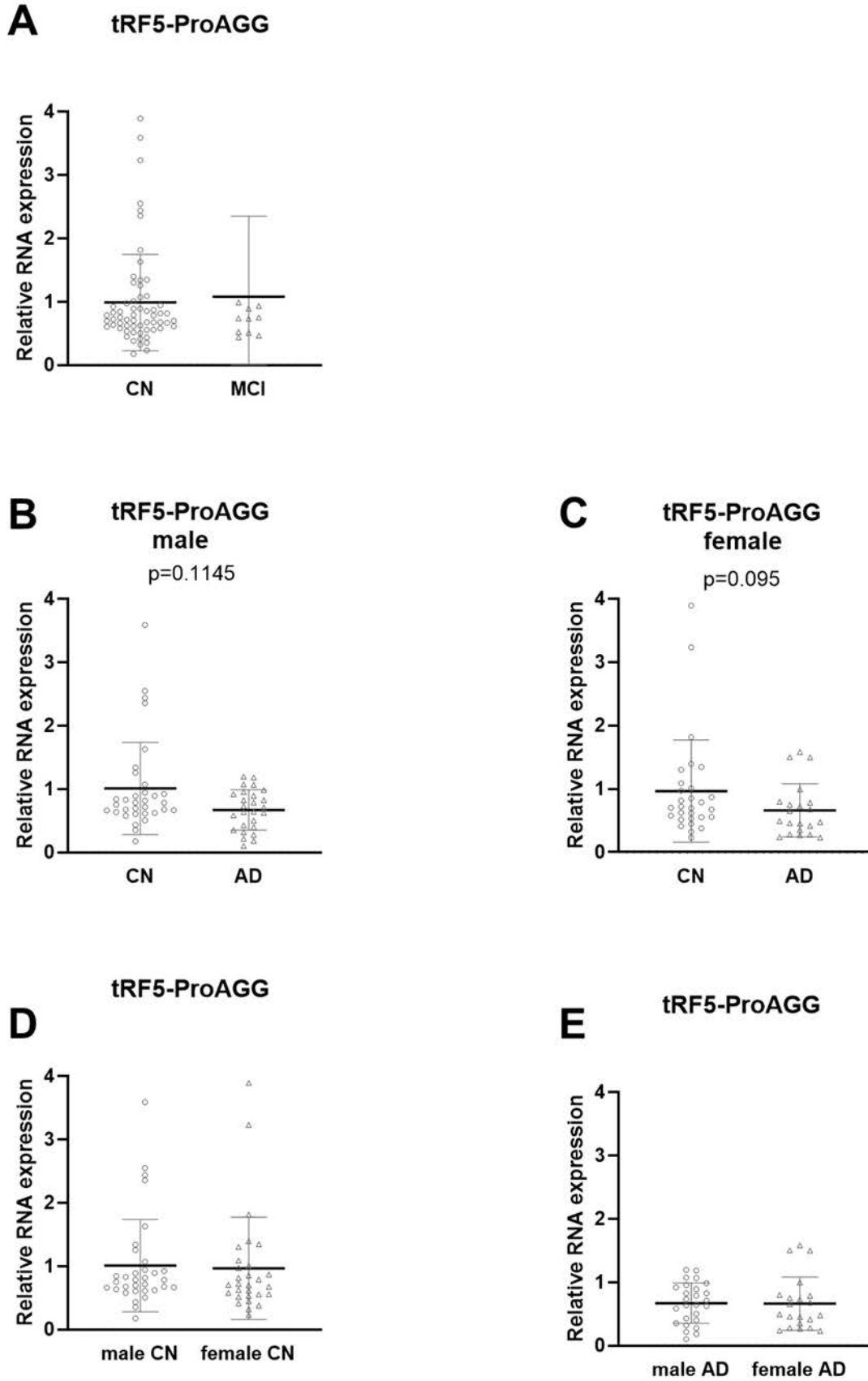
samples #	Age	CDR	MMSE	Gender	clinical diagnosis
1	60	0.5	25	M	AD
2	62	2	17	M	AD
3	65	3	4	M	AD
4	61	1	15	M	AD
5	63	2	13	M	AD
6	58	0.5	19	F	AD
7	61	2	6	F	AD
8	56	1	22	F	AD
9	61	3	0	F	AD
10	60	1	13	F	AD
11	61	0	30	M	normal
12	64	0	30	M	normal
13	60	0	30	M	normal
14	61	0	30	F	normal
15	61	0	29	F	normal
16	59	0	29	F	normal
17	77	0.5	29	M	AD
18	83	1	22	M	AD
19	68	0.5	26	M	MCI
20	70	0.5	24	M	AD
21	67	0.5	28	M	MCI
22	72	1	20	M	AD
23	73	1	16	M	AD
24	74	1	21	F	AD
25	75	2	14	F	AD
26	80	0.5	24	F	AD
27	83	1	15	F	AD
28	76	1	23	F	MCI
29	77	1	27	F	AD
30	79	0.5	27	F	MCI
31	80	1	26	F	MCI
32	77	0	30	M	normal
33	80	0	30	M	normal
34	71	0	30	M	normal
35	73	0	30	M	normal
36	68	0	30	M	normal
37	73	0	29	M	normal
38	79	0	29	F	normal
39	77	0	30	F	normal
40	78	0	29	F	normal
41	74	0	30	F	normal
42	76	0	30	F	normal
43	61	1	22	M	AD
44	64	2	9	M	AD

45	59	1	19	M	AD
46	60	1	19	M	AD
47	62	1	17	M	AD
48	57	1	20	F	AD
49	58	1	18	F	AD
50	59	1	10	F	AD
51	60	2	9	F	AD
52	59	1	19	F	AD
53	60	1	13	F	AD
54	62	3	4	F	AD
55	63	3	2	F	AD
56	62	0	29	M	normal
57	65	0	29	M	normal
58	60	0	30	M	normal
59	61	0	29	M	normal
60	62	0	30	M	normal
61	63	0	30	M	normal
62	64	0	28	M	normal
63	65	0	30	M	normal
64	56	0	30	M	normal
65	57	0	30	M	normal
66	58	0	30	M	normal
67	59	0	29	M	normal
68	58	0	30	F	normal
69	62	0	30	F	normal
70	63	0	30	F	normal
71	64	0	29	F	normal
72	65	0	29	F	normal
73	62	0	30	F	normal
74	62	0	30	F	normal
75	63	0	30	F	normal
76	64	0	29	F	normal
77	65	0	29	F	normal
78	78	1	30	M	AD
79	79	0.5	29	M	AD
80	82	1	23	M	AD
81	82	0.5	20	M	AD
82	84	0.5	20	M	AD
83	85	1	17	M	AD
84	86	2	12	M	AD
85	88	3	8	M	AD
86	81	1	20	F	AD
87	82	0.5	20	F	AD
88	85	2	5	F	AD
89	75	0	29	M	normal
90	76	0	30	M	normal
91	78	0	29	M	normal

92	79	0	29	M	normal
93	72	0	30	M	normal
94	74	0	30	M	normal
95	66	0	29	M	normal
96	67	0	29	M	normal
97	69	0	29	M	normal
98	70	0	30	M	normal
99	71	0	30	M	normal
100	72	0	30	M	normal
101	71	0	29	F	normal
102	71	0	30	F	normal
103	72	0	29	F	normal
104	73	0	29	F	normal
105	77	0	30	F	normal
106	78	0	30	F	normal
107	68	0.5	29	F	normal
108	66	0	30	F	normal
109	67	0	30	F	normal
110	68	0	30	F	normal
111	69	0	30	F	normal
112	66	0.5	27	M	MCI
113	68	0.5	29	M	MCI
114	69	0.5	28	M	MCI
115	70	0.5	24	M	MCI
116	60	0.5	24	M	MCI
117	61	0.5	22	M	AD
118	62	1	15	M	AD
119	63	1	17	M	AD
120	76	0.5	28	F	MCI

A**B****S. Figure 1**

Serum



S. Figure 2