Biomarkers	Loadings1	Loadings2	Loadings3	Loadings4
PLB1	-0.183873472	0.091546563	-0.453692066	0.38098242
TINAG	-0.229264152	-0.514081185	0.54343168	0.170719222
GLYATL2	0.451095634	0.017354242	-0.245970326	0.326975271
DHDH	0.126581383	0.040098582	0.194652864	0.063091614
DHRS4	0.13181142	0.013676545	0.066821181	-0.045263081
DUOX1	-0.105185263	0.021544789	-0.092336239	0.155794671
ITPR3	0.155711761	-0.060804913	0.136664462	0.196253741
KCNB2	0.093267699	0.06659897	0.24616929	-0.041247083
B3GNT8	0.08912428	0.131773401	0.001670945	0.002787618
PPL	0.168174812	-0.005323987	0.142392076	0.157691785
TERF2	0.197795239	-0.083176668	-0.011883304	-0.026684212
MAPK4	0.297499872	0.107751599	-0.167013054	0.120321899
THEM5	0.583250971	-0.5540733	-0.115956695	-0.199723146
ASB4	0.327256014	0.379599903	0.323877074	-0.106481494
ATP1A2	0.047571748	-0.074676894	0.186550255	0.744092503
CACNA1H	0.139064266	0.473345037	0.326696577	0.057543129

Animal Trial Samples	Scores1	Scores2
C13L_Mc	-0.2053113	1.592660338
T1L_Mc	13.3221576	1.533550971
C26L_M	6.053190535	0.703495055
N24L_M	7.715030173	-0.253567634
C27L_M	10.71036833	-1.912537328
T21L_M	13.57698224	2.94032204
N8_Mc	5.599161873	-2.015165618
C14L_Mc	-1.744044948	-0.7106748
N10L_F	5.061944624	-3.166738739
C16L_F	-0.358256574	-0.67796488
N11L_F	5.038578058	-4.069145451
C18L_F	-0.749416591	1.416567922
N22L_M	6.131807385	-2.341891347
T19L_M	13.27768715	2.512547423
C15L_Mc	0.909521393	-0.824608143
T2L_Mc	12.40978388	-0.554231296
T3L_Mc	9.87052509	-1.130373458
N9L_Mc	5.591708635	-2.730507283
T4L_F	10.11364459	-2.206708577
C17L_F	2.147508019	-0.795980438
T5L_F	14.43620521	2.838344164
C25L_M	10.86119652	-1.784356545
N12L_F	3.371181254	-3.0321378
T6L_F	12.56826351	-1.373752482
T20L_M	15.38193903	2.742270802
N23L_M	11.79314348	0.707563332
Field Animal Samples	Scores1	Scores2
1	4.002869372	5.819442318
2	0.926320385	1.557744495
3	1.082888329	2.674268593
4	1.602084284	3.208882463
6	1.634990392	5.144615755
7	1.767731055	0.457814772
8	3.46802185	3.035573388
9	0.666211178	0.780532906
10	1.575287827	4.07533292
11	-3.122195542	1.852358546
12	-0.753101595	0.925675017

15	-0.8962193	1.953399535
16	-2.069484058	0.906353118
17	-0.43152303	1.639778717
18	2.992406484	2.316012778
19	-0.755605868	0.802926644
20	-1.750005665	3.504675401
21	2.070235054	-0.609049415
23	-1.581313736	0.607525765
24	-4.307729802	0.630001696
25	1.199919129	0.619569401
26	1.095528076	-1.071816652
27	3.240199971	-0.463552169
28	-4.37667212	1.078004832
29	0.756739618	1.22651489
30	-3.518505362	0.207243131
31	-4.644803438	0.113903223
32	-3.509028185	2.48878355
33	-3.193900324	0.427810963
35	-1.953109172	2.604448828
36	-4.447065138	1.539901383
37	-0.419182649	-0.246355716
38	-0.794569507	0.709161594
39	-0.932564025	1.063822124
41	-1.6803511	0.58407209
43	-3.75426337	0.956982694
44	-3.428692633	-0.750961027
46	-2.273193463	-0.584586211
47	-3.879341144	0.509632326
50	-1.910647327	2.450113604
51	-1.456883285	3.861154581
52	-2.075618451	0.169797476
53	-2.146362018	-0.203881432
54	-2.656381108	1.744083327
55	-3.558901474	-0.363859674
56	-2.473833371	2.825071997
57	0.401835752	-0.097875175
58	-1.097389247	1.709630005
59	2.984766852	-1.756568644
60	0.086662677	-0.029615183
61	-0.96267981	2.101203236
62	3.342344697	1.964644557
63	-3.196646377	1.475699414
64	-0.804045674	0.747860482
65	-3.370722208	2.457882436
66	-3.249818947	1.297978975
67	1.759075579	-0.447751666