

DATA of Effects of Radix Ginseng and Semen Ziziphi Spinosae  
Drug Pair on the GLU/GABA-GLN Metabolic Cycle and  
Intestinal Microflora of Insomnia Rats Based on "Brain-Gut  
Axis"(1094507)

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## family

ID	M1	M2	M3	M4	M5	M6	M8	K1
S24-7	0.210736	0.139252	0.28082	0.047558	0.138281	0.352557	0.293147	0.126899
[Paraprev	0.010364	0.011606	0.111842	0.009263	0.29332	0.031915	0.103663	0.477724
Ruminococ	0.036902	0.065594	0.06085	0.01037	0.053855	0.141731	0.072264	0.044701
Lachnosp	0.096051	0.020952	0.048539	0.021691	0.060362	0.138335	0.10358	0.075144
Prevotell	0.030621	0.013867	0.066945	0.007399	0.175636	0.026706	0.162565	0.165625
Erysipelc	0.146353	0.150489	0.148654	0.357336	0.017	0.064693	0.054003	0.00072
Peptostre	0.041247	0.052271	0.033315	0.135916	0.040989	0.014044	0.010105	0.001356
Clostridi	0.074459	0.143947	0.027608	0.078707	0.018631	0.007425	0.008963	0.000614
Turicibac	0.025256	0.046425	0.023553	0.150442	0.008954	0.001496	0.006569	0.000254
Bacteroid	0.000523	0.001174	0.001263	0.000447	0.003615	0.000374	0.003647	0.012669
Desulfovi	0.00055	0.00113	0.002137	0.000835	0.001335	0.00259	0.004259	0.001949
Alcaligen	0.005208	0.005434	0.027147	0.001981	0.004153	0.008633	0.008824	0.00125
[Mogibact	0.00034	0.001391	0.001044	0.001204	0.000704	0.000317	0.000501	0.001102
Corynebac	0.004973	0.005216	0.00102	0.003593	0.000723	0.004892	0.000668	0.000297
Helicobac	0.000105	8.69E-05	0.001214	0.000175	0.001631	0.001324	0.002032	0.001017
Veillonel	0.000157	0.000174	0.000947	7.77E-05	0.000278	0.000518	0.000473	0.000275
Streptocc	0.002434	0.003977	0.001263	0.007943	0.000501	0.000691	0.004203	0.000169
Elusimicr	0.000314	0.000913	0.00102	0	0.000779	0.002245	0.000139	0.000508
Rikenella	0.000105	0.000239	0.000898	9.71E-05	0.000834	0.000806	0.000696	0.001674
Porphyrom	0.000628	0.000413	0.000826	0.000408	0.000519	0.000489	0.000501	0.000826
Coriobact	0.004004	0.010824	0.000753	0.017497	0.000501	0.001669	0.000612	0
Staphyloc	0.001937	0.008585	0.000826	0.002583	0.000797	0.003741	0.000807	0
Peptococc	0	2.17E-05	0.000121	0	0.000371	0.000317	0.000334	0.000254
Anaeropla	0	0	0.004638	0	0	0.000201	0.000362	0.000127
Enterobac	0.000105	6.52E-05	0.000486	5.83E-05	0.000185	0.000777	0	0
Aerococca	0.000654	0.00176	0.000777	0.000738	0.000704	0.001698	0.000724	0
F16	0.000157	0.002304	0.000146	0.001476	0.000148	0.000345	0.000139	0
Bacillace	0.002068	0.002065	0.001845	0.006408	0.000148	0.000345	0.000612	0
Pseudomon	0.000236	0	0	0.000952	0.00063	0.001698	0.001253	0.001123
Moraxella	0.000209	0.00113	0.000243	0.000233	0.00026	0.001727	0.000473	0.000127
Others	0.098171	0.072354	0.094724	0.0535	0.169055	0.161846	0.117582	0.083003

K2	K3	K4	K5	K6	K7	DX1	DX2	DX3
0.216107	0.195174	0.18416	0.226461	0.318892	0.101771	0.111512	0.149883	0.134182
0.145676	0.304633	0.33487	0.173888	0.017047	0.071072	0.446157	0.279916	0.164729
0.174794	0.048383	0.060289	0.123558	0.264045	0.21837	0.042732	0.06164	0.084863
0.080759	0.058101	0.037146	0.101632	0.098334	0.270588	0.030898	0.070917	0.084779
0.16208	0.249865	0.231039	0.115112	0.065686	0.029604	0.179891	0.242969	0.308735
0.00171	0.001026	0.000234	0.000797	0.00572	0.001465	0.043421	0.038107	0.08054
0.005873	0.006769	0.007353	0.021104	0.051288	0.020036	0.005316	0.011778	0.002675
0.00378	0.00359	0.001998	0.008621	0.008385	0.007079	0.002135	0.009345	0.003633
0.001553	0.001256	0.001424	0.003737	0.004957	0.00406	0.001935	0.008936	0.001245
0.003578	0.007743	0.016342	0.020406	0.004388	0.001801	0.00218	0.001592	0.004474
0.006188	0.001949	0.003591	0.005432	0.004859	0.019136	0.002603	0.001478	0.002775
0.000765	0.001538	0.000744	0.002915	0.012708	0.000459	0.007052	0.002024	0.00513
0.0027	0.000692	0.000383	0.001495	0.007622	0.003425	0.000378	0.000546	0.002506
0.000338	0.000333	0.000255	0.000922	0.001446	0.00196	0	0.000591	0
0.001125	0.000949	0.000191	0.000324	0.002795	0.0009	0.000578	0.000637	0.000202
0.001035	0.00041	0.000276	0.000698	0.002031	0.002524	0.001824	0.000432	0.004239
4.50E-05	0.000359	0.000128	0.000174	0.000114	7.06E-05	0.001513	0.000205	0.004407
0.00189	0.000462	0.000723	0.000972	0.003786	0.002136	0.000133	0.001432	0.000269
0.001485	0.001744	0.002274	0.001993	0.001528	0.001306	0.000845	0.000136	0.000959
0.0009	0.000769	0.001636	0.002666	0.003266	0.000583	0.000623	0.000114	0.001413
4.50E-05	0.000128	8.50E-05	9.97E-05	0.001089	0.000212	0	0.000227	0.000521
0	0	0	0.001071	0.000244	0.001147	0	0.00025	0
0.001058	0.000103	0.000128	0.000772	0.001771	0.002012	0.0004	0.000387	0.000252
0.0063	0	0	0.003214	0.000634	0.000141	0.000133	0	0.000101
0	0.000128	0.000234	0.000199	0.00065	0	0.004093	0	0.002103
4.50E-05	0.000128	0	0.000548	0.000439	0.002383	0	4.55E-05	0
0.000743	0.000282	0	0.000174	0.000845	0.001095	0	0.000159	0.000353
2.25E-05	0	0.000298	7.48E-05	0	7.06E-05	8.90E-05	0.000387	0
0.001035	0.000718	0.000213	0.001071	0.000861	0.000847	0.001602	0.001205	0.000202
6.75E-05	0	0.000276	0.000174	4.88E-05	0.001006	8.90E-05	0.000136	0
0.177471	0.112023	0.112544	0.178522	0.112131	0.23221	0.108953	0.105341	0.099077

DX4	DX5	DX6	DX7	G1	G3	G4	G5	G6
0.153447	0.333062	0.147594	0.217701	0.14019	0.1563	0.133977	0.102652	0.230337
0.14563	0.069872	0.350901	0.205436	0.031627	0.081436	0.216225	0.224232	0.137552
0.160382	0.17059	0.054208	0.057058	0.336623	0.122849	0.132455	0.072443	0.228721
0.212803	0.098012	0.052415	0.032998	0.259313	0.241731	0.128109	0.170181	0.124735
0.074641	0.038314	0.099365	0.104034	0.035584	0.157849	0.243068	0.271705	0.100509
0.029155	0.067512	0.057631	0.171112	0.005431	0.003879	0.002155	0.001185	0.001428
0.013808	0.044113	0.052641	0.041426	0.029816	0.046884	0.009744	0.0013	0.006334
0.008863	0.016807	0.016578	0.013693	0.014074	0.018427	0.004474	0.000554	0.006315
0.001867	0.010784	0.011341	0.010061	0.006833	0.034277	0.00317	0.000249	0.001278
0.002113	0.00409	0.001155	0.002775	0.004508	0.00647	0.004582	0.028105	0.00374
0.010094	0.003418	0.003588	0.003	0.009087	0.004082	0.002119	0.003346	0.002312
0.001703	0.009726	0.007341	0.008775	0.004437	0.007035	0.001684	0.001969	0.001767
0.002462	0.00177	0.000804	0.00049	0.005378	0.002938	0.001395	0.001319	0.002443
0.001087	0.001038	0.000845	0.001122	0.002112	0.000333	0.000453	0.000134	0.00141
0.000964	0.000224	0.001052	6.12E-05	0.001952	0.001896	0.001069	0.001587	0.000395
0.001662	0.001668	0.00099	0.000592	0.002076	0.001636	0.000543	0.001568	0.000752
0.000369	0.000183	0.000804	6.12E-05	8.87E-05	0	0.000272	0	0
0.004698	0.002747	0.000907	0.000388	0.000781	0.000159	0.001503	0.000134	0.002932
0.000759	0.001465	0.001629	0.001428	0.002272	0.002475	0.001069	0.001338	0.001673
0.000595	0.002381	0.000557	0.00151	0.001668	0.002736	0.001395	0.001702	0.001579
0.000472	0.000651	0.000454	0.00049	0.000532	0.000217	0.000254	0	0
0.000985	0.000692	0.00068	0.001469	0.000834	8.69E-05	0.000543	3.82E-05	0.001541
0.001067	0.002279	0.000268	0.000367	0.002165	0.001419	0.000761	0.001281	0.002124
0	0	0.000103	4.08E-05	0	0.000217	0.001485	0.000516	0.004417
0	0.000142	0.002619	2.04E-05	0.00055	7.24E-05	0.000833	0	0
0.00039	0.000488	0.000351	0.000959	0.000213	0.000101	0.000235	0	0.002105
0.000616	0.000244	0.000351	0.000327	0.001597	0.000492	0.000254	0.000249	0.000545
2.05E-05	0.000651	0.001237	0.001816	3.55E-05	0.000145	0.000127	0	1.88E-05
0.001046	0.00057	0.001196	0.001286	0	2.90E-05	0	0	0
0.000287	0.000326	0.000103	0.001735	0.000177	0	0	0	0.000263
0.164054	0.112764	0.121015	0.111707	0.099672	0.102584	0.104073	0.111619	0.130993

G7	G8	Z1	Z2	Z3	Z4	Z5	Z6	Z7
0.266073	0.194265	0.185588	0.141202	0.240923	0.228816	0.28621	0.107454	0.13662
0.065014	0.09215	0.007017	0.375198	0.137916	0.043453	0.007435	0.02211	0.024036
0.204392	0.193368	0.401227	0.160775	0.064887	0.219606	0.239446	0.176961	0.086139
0.163051	0.070885	0.131599	0.105106	0.096998	0.223179	0.1614	0.360958	0.431224
0.06022	0.148148	0.012567	0.086524	0.324434	0.140271	0.048378	0.1347	0.216236
0.001858	0.002521	0.002053	0.000686	0.000505	0.000596	0.001101	0.001529	0.005908
0.043141	0.006682	0.013289	0.009567	0.006147	0.00251	0.033973	0.004214	0.002778
0.012994	0.002335	0.013108	0.005031	0.004129	0.004062	0.019958	0.007586	0.004783
0.015796	0.001387	0.010874	0.002344	0.002477	0.000404	0.01761	0.004665	0.001565
0.004292	0.00225	0.000361	0.001239	0.007775	0.002403	0.005063	0.004293	0.002655
0.002448	0.019878	0.004963	0.00425	0.000895	0.00419	0.001492	0.015661	0.00109
0.004307	0.003806	0.005212	0.001487	0.002156	0.001234	0.003155	0.001274	0.001917
0.002507	0.004111	0.003181	0.001696	0.001193	0.002042	0.004109	0.003254	0.001565
0.002729	0.001929	0.003249	0.00162	0.000413	0.000425	0.010908	0.000451	0.000246
0.000118	0.002335	0.001015	0.000515	0.001881	0.002914	0.006628	0.012506	0.000475
0.001593	0.004432	0.000902	0.001372	0.000115	0.001212	0.000342	0.003646	0.000703
0.000265	8.46E-05	0	0.000191	0.000183	6.38E-05	0.000147	0.000137	5.28E-05
0.000973	0.000508	0.001827	0.002497	0.000528	0.000255	0.002519	0.000804	0.00116
0.001549	0.001133	0.000361	0.001334	0.001239	0.00034	0.001492	0.000745	0.000369
0.002478	0.000964	0.000429	0.00082	0.002087	0.001106	0.001076	0.000804	0.000809
2.95E-05	0.000711	0.000654	3.81E-05	4.59E-05	0.000128	0.000563	0.000137	0.000369
0.002094	0.001049	0.000745	0.000781	0.000482	0	0.002103	0.000255	5.28E-05
0.002021	0.001996	0.000902	0.000591	0.000596	0.001829	0.00044	0.001196	0.000615
0.000413	0.000677	0	0	6.88E-05	0	7.34E-05	0.000196	0
0.000826	0.001962	0.006114	0.000114	0.002729	0.000149	0.003057	0.000216	3.52E-05
0.001327	0.001303	9.02E-05	0.000457	9.18E-05	0	0.000856	0.000216	0
0.001224	0.001489	0.000835	0.000114	0.000138	0.000468	0.000587	0.000686	0.001037
0.000118	8.46E-05	4.51E-05	0.000114	4.59E-05	0	0.000318	0.000137	0
0.000147	0	0	0	0	0	0	0	0
0.000914	0.000829	0.000384	0.000191	0	0	0.000269	0.000118	0
0.133435	0.23348	0.190484	0.093823	0.098855	0.116896	0.138923	0.133034	0.07675

D1	D2	D3	D4	D5	D6	D7
0.145695	0.298746	0.357809	0.122409	0.146534	0.245866	0.170578
0.330413	0.151793	0.051071	0.027647	0.179713	0.102236	0.024226
0.074907	0.150372	0.140283	0.278416	0.092506	0.145816	0.183391
0.073246	0.066008	0.07919	0.177743	0.185075	0.135839	0.323431
0.225471	0.105688	0.117357	0.041649	0.2005	0.194272	0.039744
0.003459	0.0167	0.013943	0.002677	0.008475	0.003055	0.006715
0.007418	0.020353	0.042918	0.019714	0.015473	0.009388	0.019552
0.004027	0.007468	0.016877	0.015014	0.002154	0.002803	0.012813
0.001616	0.012003	0.009918	0.007021	0.006714	0.002298	0.005007
0.002526	0.002915	0.002726	0.001349	0.023728	0.015554	0.001637
0.002662	0.005183	0.001895	0.010868	0.010189	0.004372	0.009847
0.002139	0.010815	0.009555	0.000992	0.007092	0.004932	0.001874
0.001274	0.001692	0.002622	0.004562	0.003082	0.00213	0.002112
0.001365	0.001692	0.000675	0.000853	0.00022	0.00014	0.005576
0.000273	0.002447	0.001714	0.001507	0.003223	0.001289	0.000807
0.000341	0.000756	0.000883	0.001805	0.015158	0.000645	0.002325
0.002913	0.012111	0.003791	0.000139	0.006746	0.000757	0.005149
0.001115	0.000936	0.00013	0.007497	0.000692	0.007987	0.00083
0.001001	0.002519	0.001973	0.001388	0.003318	0.003811	0.000854
0.00091	0.002159	0.001168	0.001011	0.003161	0.00412	0.000546
0.000137	0.00135	0.000545	0.000456	0.000299	0.000196	0.000522
0.001047	0.000828	0.000493	0.001289	0	0.000112	0.003369
0.001001	0.001512	0.001766	0.001944	0.001195	0.002186	0.000997
0.001934	0.007558	7.79E-05	0.000992	0	0	0.002041
0.000137	7.20E-05	0.000208	0	0.000189	0	0
0.000796	0.001242	2.60E-05	0.000357	3.15E-05	0.000112	0.003939
0.00025	0.000828	0.001013	0.001765	0.000142	0.000252	0.000522
6.83E-05	0.000234	0.000312	0.000535	0	2.80E-05	7.12E-05
0	0	0.000156	0	0	0.000813	0.000427
0.000432	0.001242	0.000104	0.000357	0	8.41E-05	0.002041
0.109425	0.095161	0.135817	0.267805	0.081876	0.10885	0.164598

## genus

ID	M1	M2	M3	M4	M5	M6	M8	K1
[Prevotel	0.009553	0.010867	0.109754	0.008117	0.284496	0.029843	0.092083	0.470076
Prevotell	0.024497	0.01278	0.045456	0.006719	0.132089	0.01131	0.140018	0.103976
Oscillosp	0.001492	0.00915	0.018284	0.00266	0.015851	0.011856	0.018985	0.019681
Blautia	0.082598	0.008216	0.004007	0.013535	0.001817	0.004058	0.063022	0.026884
Allobacul	0.145437	0.150098	0.148241	0.356539	0.016926	0.064462	0.053864	0.000127
Ruminococ	0.011987	0.034536	0.015176	0.003029	0.017538	0.04544	0.02458	0.005847
Paraprevc	0.000811	0.000739	0.001578	0.001126	0.006711	0.001871	0.010689	0.002796
Coprococc	0.000183	0.002326	0.003497	0.003573	0.005339	0.004374	0.005651	0.004004
Clostridi	0.059384	0.131167	0.019207	0.070007	0.011272	0.005612	0.00451	0.000381
Turicibac	0.025256	0.046425	0.023553	0.150442	0.008954	0.001496	0.006569	0.000254
Roseburia	0.000942	0.001022	0.006556	0.000252	0.008695	0.019684	0.002839	0.001504
Bacteroid	0.000523	0.001174	0.001263	0.000447	0.003615	0.000374	0.003647	0.012669
Sutterell	0.005182	0.005173	0.027123	0.001981	0.003875	0.008403	0.008824	0.00125
SMB53	0.006072	0.001608	0.002598	0.001573	0.003652	0.000547	0.002477	0.000233
Corynebac	0.004973	0.005216	0.00102	0.003593	0.000723	0.004892	0.000668	0.000297
Streptocc	0.002434	0.003564	0.001263	0.007787	0.000501	0.000691	0.004203	0.000169
Lachnospi	0.000393	0	7.29E-05	0.000272	0.000426	0.000115	0.003034	0.001356
Parabacte	0.000471	0.000391	0.000801	0.000408	0.000501	0.00046	0.000501	0.000826
[Ruminocc	0	0	0.000704	1.94E-05	0.00013	0	0.000501	0.000678
Dorea	0	0.000196	0.000194	0.00035	0.000148	0.000489	0.000306	0.000551
Helicobac	0	0	0.000777	0	0.00089	0.001324	0.001503	0.000826
Anaeropla	0	0	0.004638	0	0	0.000201	0.000362	0.000127
Jeotgalic	0.001387	0.006868	0.000704	0.002117	0.000779	0.003482	0.000585	0
Shigella	0.000105	6.52E-05	0.000219	5.83E-05	5.56E-05	0.000719	0	0
rc4-4	0	0	0	0	0.000241	0	0	0.000148
Flexispir	0.000105	8.69E-05	0.000437	0.000175	0.000742	0	0.000529	0.000191
Desulfovi	0.000471	0.000543	0.000243	0.000699	7.42E-05	0.000173	0.000223	2.12E-05
Pseudomon	0.000236	0	0	0.000952	0.00063	0.001669	0.001197	0.001123
Butyricic	0	8.69E-05	0	9.71E-05	0	0.000547	0	0.000699
Lachnospi	0	0	0	0	0.000167	0.001151	0.000724	0
Others	0.410689	0.331776	0.508195	0.282358	0.468067	0.750899	0.511608	0.342711

K2	K3	K4	K5	K6	K7	DX1	DX2	DX3
0.131343	0.279377	0.296066	0.129164	0.013326	0.060903	0.438906	0.275187	0.153224
0.141423	0.213841	0.168052	0.098542	0.061721	0.026144	0.133978	0.205907	0.294538
0.073086	0.019846	0.022505	0.036153	0.057788	0.108726	0.021377	0.019304	0.051876
0.010148	0.007308	0.002826	0.009742	0.026196	0.000159	0.005606	0.004502	0.026611
6.75E-05	0.000538	0	0.000623	0.004128	0.000177	0.043243	0.038062	0.079026
0.048536	0.009974	0.010668	0.033537	0.06814	0.060356	0.006963	0.01296	0.011539
0.012488	0.021076	0.032216	0.040115	0.003591	0.009762	0.00525	0.003843	0.010799
0.016449	0.017282	0.002401	0.01642	0.005672	0.013752	0.005962	0.001228	0.014012
0.003645	0.001359	0.000871	0.003015	0.004306	0.006443	0.001846	0.005139	0.00323
0.001553	0.001256	0.001424	0.003737	0.004957	0.00406	0.001935	0.008936	0.001245
0.000428	0.002282	0.006141	0.014302	0.006143	0.043515	0.001535	0.010118	0.012414
0.003578	0.007743	0.016342	0.020406	0.004388	0.001801	0.00218	0.001592	0.004474
0.000765	0.001538	0.000744	0.002915	0.012497	0.000459	0.007052	0.001955	0.00513
0	0.002231	0.001126	0.005407	0.003575	0	0	0.001955	0.000404
0.000338	0.000333	0.000255	0.000922	0.001446	0.00196	0	0.000591	0
4.50E-05	0.000333	0.000128	0.000174	0.000114	7.06E-05	0.001513	0.000205	0.004407
0.000203	0.000462	0.000319	0.000274	0.000114	0.000741	0.000156	0.00025	5.05E-05
0.0009	0.000769	0.001636	0.002666	0.003234	0.000583	0.000623	0.000114	0.001413
0.001035	2.56E-05	0.000106	0.001196	0.002178	0.001818	0.000601	0.000205	0.000942
0.000923	0.000462	0.000128	0.000523	0.000683	0.000724	0.0002	0.000637	0.000286
0.000383	0.000513	0.000191	0.000324	0.000423	0.000759	0.000156	0.000432	8.41E-05
0.0063	0	0	0.003214	0.000634	0.000141	0.000133	0	0.000101
0	0	0	0.000548	0.000244	0.000706	0	0.000205	0
0	0	0.000234	4.98E-05	0.000634	0	0.002536	0	0.001951
0.000405	0	0.000128	0.000349	0.001365	0.000741	0.000178	0.000227	0.000135
0.000743	0.000436	0	0	0.002373	0.000141	0.000423	0.000205	0.000118
0.00099	7.69E-05	6.38E-05	0	0.000699	0.000318	4.45E-05	0.000273	0.000303
0.001035	0.000692	0.000128	0.001046	0.000861	0.000847	0.001602	0.001205	0.000202
0.000833	0	0	0.000174	0.001024	0.000477	0	0.000182	0
0	0	0.000914	0.000897	0.000325	0.000388	0	0.000136	0
0.541527	0.409502	0.433219	0.572393	0.704835	0.652797	0.313091	0.395262	0.315851



DX4	DX5	DX6	DX7	G1	G3	G4	G5	G6
0.144009	0.066311	0.338447	0.192988	0.029355	0.05609	0.204488	0.205839	0.125298
0.059807	0.027245	0.065797	0.079913	0.033224	0.153043	0.217511	0.254842	0.082185
0.0603	0.043441	0.026001	0.017428	0.139427	0.039618	0.029596	0.032675	0.021463
0.005252	0.028344	0.003505	0.004592	0.077558	0.144199	0.044973	0.0456	0.049465
0.028519	0.066637	0.057508	0.170888	0.001136	0.001476	0.001503	0.000459	0.000319
0.037998	0.026756	0.010186	0.01004	0.054965	0.016965	0.044067	0.018718	0.045105
0.001518	0.003337	0.011011	0.010999	0.002201	0.024709	0.010686	0.014072	0.011164
0.005437	0.006755	0.001175	0.009734	0.039862	0.009206	0.019924	0.019196	0.02135
0.006319	0.011984	0.009299	0.008551	0.009335	0.011623	0.0023	0.000554	0.005356
0.001867	0.010784	0.011341	0.010061	0.006833	0.034277	0.00317	0.000249	0.001278
0.039988	0.002442	0.002041	0	0.012459	0.007107	0.001123	0.003136	0.0053
0.002113	0.00409	0.001155	0.002775	0.004508	0.00647	0.004582	0.028105	0.00374
0.001703	0.009665	0.007341	0.008122	0.004437	0.007035	0.001503	0.001969	0.001767
0.001334	0.003785	0.005485	0.003979	0.003851	0.006036	0.002065	0	0.000958
0.001087	0.001038	0.000845	0.001122	0.002112	0.000333	0.000453	0.000134	0.00141
0.000349	0.000183	0.000804	6.12E-05	8.87E-05	0	0.000272	0	0
0.000164	0.000488	0.000124	0.000347	0.016754	0.000391	0.004673	0.000421	0.002594
0.000595	0.00234	0.000557	0.00151	0.001668	0.002736	0.001395	0.001702	0.001579
0.000698	0.002136	0.002845	0.000531	0.002272	0.001534	0.001684	0.001396	0.000639
0.002708	0.000671	0.000969	0.000429	0.001171	0.001057	0.000724	0.000803	0.000357
0.000964	0.000224	0.00068	6.12E-05	0.001278	0.000449	0.000362	0.001109	0.000263
0	0	0.000103	4.08E-05	0	0.000217	0.001485	0.000516	0.004417
0.000882	0.000651	0.000536	0.001163	0.000692	8.69E-05	0.00038	3.82E-05	0.001372
0	0.000142	0.001732	2.04E-05	0.000515	7.24E-05	0.000761	0	0
0.000431	0.001974	0.000144	0.000224	0.001597	0.001071	0.000598	0.001013	0.001635
0	0	0.000371	0	0.000674	0.001447	0.000543	0.000363	0.000132
0.001785	0.000163	0.000227	0.000449	0.002236	0.000579	0.000181	0.00044	0.000413
0.001046	0.000549	0.001196	0.001265	0	2.90E-05	0	0	0
0.000349	0.000529	0.000309	0	0.00197	0.000999	0.000543	0	0.000207
0.000267	0	0.001196	0	0.002059	0	0.000851	0.00174	0
0.588552	0.673917	0.427935	0.456646	0.54539	0.469899	0.395628	0.364319	0.60845

G7	G8	Z1	Z2	Z3	Z4	Z5	Z6	Z7
0.05584	0.06449	0.005009	0.373654	0.073236	0.040029	0.006188	0.020797	0.020467
0.053495	0.14204	0.010784	0.057517	0.302576	0.127446	0.045297	0.131329	0.207462
0.040929	0.079428	0.062269	0.039774	0.015253	0.033329	0.043609	0.066252	0.029961
0.027123	0.005041	0.014123	0.035715	0.041767	0.110813	0.053686	0.014936	0.376787
0.001077	0.000406	0.001286	7.62E-05	0.000138	0	0.000245	0.000176	0.00473
0.059055	0.078565	0.052455	0.021116	0.016789	0.054832	0.064203	0.048631	0.023807
0.00879	0.026848	0.001985	0.001029	0.062134	0.003297	0.00115	0.001137	0.00327
0.049468	0.014109	0.015161	0.0081	0.003876	0.018228	0.005307	0.038105	0.004554
0.008186	0.002318	0.009521	0.002535	0.0025	0.003169	0.012792	0.006958	0.004308
0.015796	0.001387	0.010874	0.002344	0.002477	0.000404	0.01761	0.004665	0.001565
0.004262	0.00159	0.005753	0.01092	0.007363	0.018419	0.004402	0.002607	0.000422
0.004292	0.00225	0.000361	0.001239	0.007775	0.002403	0.005063	0.004293	0.002655
0.004203	0.003739	0.005212	0.001487	0.002156	0.001234	0.003131	0.001156	0.001917
0.004543	0	0.002775	0.00242	0.001468	0.000787	0.006163	0.000627	0.000475
0.002729	0.001929	0.003249	0.00162	0.000413	0.000425	0.010908	0.000451	0.000246
0.000265	8.46E-05	0	0.000191	0.000183	6.38E-05	0.000147	0.000137	5.28E-05
0.004469	8.46E-05	0.000226	0.002973	0.001812	0.000957	0.000978	0.000294	0.000193
0.002478	0.000964	0.000429	0.00082	0.002087	0.001106	0.001076	0.000804	0.000809
0.001327	0.004991	0.001444	0.00082	2.29E-05	0.000447	0.00115	0.00198	0.000545
0.000929	0.00022	0.000654	0	0.000459	0.000659	0.000514	7.84E-05	0.003816
0.000118	0.002047	0.000812	0.000515	0.001239	0.001787	0.006628	0.007037	8.79E-05
0.000413	0.000677	0	0	6.88E-05	0	7.34E-05	0.000196	0
0.002006	0.000964	0.000745	0.000686	0.000482	0	0.00181	0.000176	0
0.000782	0.001861	0.005956	9.53E-05	0.002569	0	0.002788	0.000137	0
0.001622	0.000389	0.000384	0.000172	0.000505	0.00134	0.000318	0.000412	0.000422
0	0.000288	0.000203	0	0.000642	0.001127	0	0.005312	0.000299
0.000339	0.002165	0.000564	0.000248	0.000138	0.000425	0	0.00096	0.000299
2.95E-05	0	0	0	0	0	0	0	0
0.000383	0.0011	0.000564	0.000896	0.000115	0.000447	0.000391	0.000764	0.000141
0	0.000372	0	0.00101	0	0.000553	0.000342	0	0
0.643457	0.556403	0.786278	0.431781	0.449758	0.574826	0.703664	0.639532	0.309901

D1	D2	D3	D4	D5	D6	D7
0.32345	0.099696	0.014722	0.021023	0.13331	0.068858	0.02107
0.206653	0.090248	0.111878	0.040935	0.19844	0.189311	0.037774
0.019296	0.036999	0.033831	0.102913	0.032706	0.058377	0.046957
0.001115	0.01463	0.003064	0.003808	0.089188	0.067205	0.014972
0.003072	0.015674	0.013631	0.001825	0.004576	0.000589	0.00624
0.017817	0.041318	0.068181	0.063942	0.019718	0.016563	0.041761
0.005256	0.050658	0.035622	0.006426	0.046308	0.032201	0.003108
0.017452	0.003419	0.017032	0.026596	0.007752	0.002046	0.022257
0.003732	0.005255	0.012073	0.010789	0.00184	0.001177	0.006857
0.001616	0.012003	0.009918	0.007021	0.006714	0.002298	0.005007
0.008715	0.006029	0.001039	0.016184	0.00607	0.006334	0.035971
0.002526	0.002915	0.002726	0.001349	0.023728	0.015554	0.001637
0.002116	0.010815	0.009555	0.000992	0.007092	0.004932	0.00178
0	0.001728	0.002674	0.00357	0	0.001625	0.004081
0.001365	0.001692	0.000675	0.000853	0.00022	0.00014	0.005576
0.002913	0.011859	0.003791	0.000139	0.006746	0.000757	0.005149
0.000159	0.000144	0	0.000278	0.006777	0.000336	0.001163
0.00091	0.002159	0.001168	0.001011	0.003145	0.004064	0.000546
0.000614	0.001566	0.000623	0.003272	0.006761	0.001149	0.002278
0.001684	0.001404	0.001194	0.000972	0.007673	0.00269	0.002041
0.000273	0.00117	0.000675	0.001368	0.001054	0.001037	0.000569
0.001934	0.007558	7.79E-05	0.000992	0	0	0.002041
0.000751	0.000792	0.000338	0.001051	0	0	0.002824
0.000137	7.20E-05	0.000208	0	0.000189	0	0
0.000523	0.000864	0.00109	0.000873	0.000865	0.001962	0.000285
0	0.001278	0.001039	0.000139	0.00217	0.000252	0.000237
0.000205	0.000738	0.000779	0.000714	0.000676	0.000336	0.000878
0	0	0.000156	0	0	0.000813	0.000403
0.000228	0.000432	0.000467	0.000714	0.001887	0.00042	0.000403
0.000273	5.40E-05	0	0.00123	0.000472	0.000953	0
0.373214	0.559215	0.648786	0.678785	0.381408	0.517964	0.721675

pathway	descript	logFC	SE	Pvalues	adjPvalues
3-HYDROXY4-hydroxy		1.564	1.244	0.2088	0.8498
P341-PWY glycolysi		1.262	1	0.2069	0.8498
PWY-7013 L-1,2-prc		1.167	0.5864	0.04657	0.6049
PWY-7237 myo-, chi		1.136	0.5053	0.0246	0.4534
P163-PWY L-lysine		1.107	0.5341	0.0382	0.5834
PWY-6478 GDP-D-gly		1.106	1.158	0.3397	0.8498
GLUCARDEGD-glucara		1.084	0.6745	0.1079	0.8498
PWY-5677 succinate		1.062	0.6232	0.08825	0.8498
NAD-BIOSYNAD salva		1.059	0.5242	0.04342	0.6001
GALACTARCD-galacta		1.055	0.6367	0.09759	0.8498
GLUCARGAL superpath		1.055	0.6367	0.09759	0.8498
PWY-6749 CMP-legic		0.9977	0.502	0.04689	0.6049
FUC-RHAMC superpath		0.9424	0.4374	0.03121	0.5251
PWY-7446 sulfoglyc		0.9332	0.958	0.33	0.8498
PWY-7374 1,4-dihyd		0.9321	0.6875	0.1752	0.8498
PWY-7371 1,4-dihyd		0.9259	0.7069	0.1902	0.8498
PWY-6629 superpath		0.9081	0.9739	0.3511	0.8498
PWY-5676 acetyl-Cc		0.9012	0.4301	0.03613	0.5827
PWY-6263 superpath		0.8867	0.6748	0.1888	0.8498
KETOGLUCCketogluc		0.8803	0.8915	0.3234	0.8498
LPSSYN-PW superpath		0.8697	0.9777	0.3737	0.8498
PWY-7332 superpath		0.8209	0.7657	0.2837	0.8498
PWY-5705 allantoin		0.8198	0.3976	0.03919	0.5834
ECASYN-PW enterobac		0.7672	0.9402	0.4145	0.8498
PWY-6641 superpath		0.7511	0.771	0.33	0.8498
PWY-6572 chondroit		0.7174	0.8915	0.421	0.8498
REDCITCYCTCA cycle		0.6917	0.3904	0.07646	0.8354
PWY-6588 pyruvate		0.6901	0.4133	0.09501	0.8498
FUCCAT-PWfucose de		0.6844	0.6427	0.287	0.8498
P162-PWY L-glutama		0.6763	0.6874	0.3252	0.8498
PWY-7315 dTDP-N-ac		0.6738	0.5369	0.2094	0.8498
P562-PWY myo-inosi		0.6575	0.4871	0.1771	0.8498
PWY-7328 superpath		0.6557	0.6594	0.32	0.8498
PWY-1622 formaldeh		0.644	0.3327	0.05293	0.6401
PWY-5177 glutaryl-		0.6367	0.5488	0.2459	0.8498
PWY-5971 palmitate		0.6284	0.6773	0.3535	0.8498
PWY-6282 palmitole		0.6169	0.8476	0.4667	0.8498
PWY-5989 stearate		0.6158	0.8543	0.471	0.8498
FASYN-INI superpath		0.6153	0.8572	0.4728	0.8498
PWY-7664 oleate bi		0.5986	0.8214	0.4662	0.8498
GALACTURCD-galactu		0.5896	0.4045	0.145	0.8498
GALACT-GL superpath		0.5874	0.4166	0.1586	0.8498
GLUCUROCA superpath		0.5758	0.409	0.1591	0.8498
PWYG-321 mycolate		0.5729	0.8148	0.482	0.8498
PWY-6467 Kdo trans		0.5441	0.6768	0.4215	0.8498
NAGLIPASYlipid IVA		0.5427	0.679	0.4241	0.8498
PWY0-862 (5Z)-dode		0.5406	0.7983	0.4983	0.8498
ORNDEG-PW superpath		0.5241	0.3132	0.09424	0.8498
PWY-7373 superpath		0.5139	1.051	0.6249	0.8762
PWY-5531 chlorophy		0.5134	0.1928	0.007754	0.2

PWY-7159 chlorophy	0.5134	0.1928	0.007754	0.2
PWY-7198 pyrimidin	0.5103	0.896	0.569	0.8498
PWY-6471 peptidogl	0.5055	0.3634	0.1641	0.8498
PWY0-1241ADP-L-gly	0.5053	0.5684	0.374	0.8498
PWY-7210 pyrimidin	0.5022	0.8401	0.55	0.8498
PWY-1269 CMP-3-dec	0.5016	0.6455	0.4371	0.8498
PWY-5304 superpath	0.4927	0.59	0.4037	0.8498
PWY-6519 8-amino-7	0.4892	0.6824	0.4734	0.8498
FAO-PWY fatty aci	0.4503	0.4409	0.3071	0.8498
COBALSYN-adenosylc	0.4393	0.2952	0.1367	0.8498
BIOTIN-BIbiotin bi	0.4343	0.6024	0.471	0.8498
PWY-7323 superpath	0.432	0.4894	0.3774	0.8498
PWY-6269 adenosylc	0.428	0.2974	0.15	0.8498
PWY-5509 adenosylc	0.4248	0.2983	0.1544	0.8498
PWY-7254 TCA cycle	0.4205	0.5179	0.4168	0.8498
PWY0-1586peptidogl	0.4153	0.3299	0.2081	0.8498
PWY-6703 preQ0 bic	0.4024	0.4421	0.3627	0.8498
PWY-6507 4-deoxy-L	0.4001	0.4816	0.4061	0.8498
PWY-5741 ethylmalc	0.3811	0.6319	0.5464	0.8498
KDO-NAGLIsuperpath	0.3728	1.214	0.7587	0.9411
PWY0-1533methylphc	0.3716	0.8965	0.6785	0.915
CENTFERM-pyruvate	0.3648	0.4468	0.4142	0.8498
PWY-6590 superpath	0.3589	0.4402	0.4149	0.8498
FASYN-ELCfatty aci	0.3534	0.3451	0.3059	0.8498
METHGLYUTsuperpath	0.349	0.9055	0.6999	0.9163
PWY-7242 D-fructur	0.3394	0.3352	0.3113	0.8498
SO4ASSIM-sulfate r	0.3317	0.3709	0.3712	0.8498
SULFATE-Csuperpath	0.3306	0.3524	0.3482	0.8498
HISDEG-PWL-histidi	0.322	0.5564	0.5627	0.8498
PWY-7090 UDP-2,3-d	0.3211	0.556	0.5636	0.8498
P42-PWY incomplet	0.308	0.3905	0.4303	0.8498
PYRIDNUCSNAD biosy	0.2916	0.3008	0.3324	0.8498
GLYCOL-GLsuperpath	0.2908	0.3396	0.3918	0.8498
SER-GLYSYsuperpath	0.2902	0.2821	0.3035	0.8498
PWY-6969 TCA cycle	0.2889	0.3241	0.3727	0.8498
PWY-7663 gondoate	0.287	0.2636	0.2762	0.8498
PWY-5973 cis-vacce	0.2853	0.2674	0.2859	0.8498
GLUCONEO-gluconeog	0.2827	0.2961	0.3396	0.8498
THISYN-PWsuperpath	0.2779	0.3453	0.4209	0.8498
TRPSYN-PWL-tryptop	0.2773	0.2787	0.3197	0.8498
CALVIN-PWCalvin-Be	0.2728	0.2816	0.3326	0.8498
PWY-6700 queuosine	0.2718	0.3612	0.4517	0.8498
COLANSYN-colanic a	0.2693	0.4453	0.5453	0.8498
PWY-5154 L-arginin	0.2601	0.4236	0.5391	0.8498
POLYISOPRpolyisopr	0.247	0.3588	0.4913	0.8498
ALL-CHORIsuperpath	0.246	0.6295	0.6959	0.9163
PPGPPMET-ppGpp bic	0.2441	0.6302	0.6985	0.9163
CHLOROPHYchlorophy	0.2407	0.1015	0.01775	0.3815
PYRIDNUCSNAD salva	0.2404	0.2996	0.4223	0.8498
P261-PWY coenzyme	0.24	0.1183	0.04243	0.6001
PWY-5505 L-glutama	0.2385	0.2851	0.4027	0.8498

P108-PWY pyruvate	0.2326	0.304	0.4443	0.8498
PWY-6737 starch de	0.2225	0.2683	0.4068	0.8498
PANTOSYN-pantothen	0.2201	0.3062	0.4723	0.8498
PWY-6147 6-hydroxy	0.2156	0.3262	0.5087	0.8498
PWY-7539 6-hydroxy	0.2126	0.3258	0.514	0.8498
GLYCOLYSI superpath	0.2125	0.3294	0.5188	0.8498
COA-PWY coenzyme	0.2102	0.2795	0.452	0.8498
PWY-6163 chorismat	0.2091	0.2748	0.4467	0.8498
PANTO-PWY phosphopa	0.209	0.3169	0.5095	0.8498
PWY-6895 superpath	0.2086	0.361	0.5633	0.8498
PWY-5529 superpath	0.2064	0.1493	0.1669	0.8498
RIBOSYN2-flavin bi	0.2014	0.2988	0.5003	0.8498
PWY-5104 L-isoleuc	0.2006	0.2575	0.4358	0.8498
FERMENTAI mixed aci	0.2003	0.2593	0.4397	0.8498
PWY-5695 urate bic	0.1999	0.3194	0.5313	0.8498
NONMEVIP methylery	0.1997	0.2773	0.4714	0.8498
PWY-7560 methylery	0.1997	0.2773	0.4714	0.8498
PWY-6123 inosine-5	0.1989	0.2849	0.485	0.8498
ICMET2-PWN10-formy	0.1984	0.2733	0.468	0.8498
PWY-5101 L-isoleuc	0.1959	0.2517	0.4364	0.8498
GLYCOGENS glycogen	0.1958	0.2621	0.4551	0.8498
ILEUSYN-FL-isoleuc	0.195	0.2549	0.4442	0.8498
VALSYN-PWL-valine	0.195	0.2549	0.4442	0.8498
PWY-5121 superpath	0.1944	0.277	0.4826	0.8498
ASPASN-PW superpath	0.1938	0.2919	0.5068	0.8498
PWY-6612 superpath	0.1907	0.32	0.5514	0.8498
PWY-2942 L-lysine	0.1901	0.2728	0.4858	0.8498
GLUTORN-FL-ornithi	0.19	0.2877	0.5089	0.8498
PWY-5686 UMP biosy	0.1892	0.2734	0.4889	0.8498
FOLSYN-PW superpath	0.1867	0.3003	0.5341	0.8498
PWY-6892 thiazole	0.1865	0.2834	0.5105	0.8498
ARO-PWY chorismat	0.1857	0.2663	0.4857	0.8498
PWY-5103 L-isoleuc	0.1852	0.2473	0.4541	0.8498
PWY-7219 adenosine	0.185	0.2729	0.498	0.8498
PWY-7208 superpath	0.1833	0.2676	0.4933	0.8498
PWY-7347 sucrose k	0.1815	0.8616	0.8332	0.9413
COMPLETE- superpath	0.1805	0.2661	0.4974	0.8498
P441-PWY superpath	0.179	0.2982	0.5483	0.8498
PWY-7199 pyrimidin	0.1779	0.3093	0.5652	0.8498
ANAGLYCOL glycolysi	0.1777	0.2697	0.51	0.8498
HISTSYN-FL-histidi	0.1772	0.2568	0.4902	0.8498
PWY-5097 L-lysine	0.1753	0.2709	0.5175	0.8498
TRNA-CHAR tRNA char	0.1744	0.2724	0.522	0.8498
PWY-6121 5-amino in	0.1724	0.2657	0.5163	0.8498
PWY-5088 L-glutama	0.1721	0.668	0.7967	0.9413
PWY-6126 superpath	0.1719	0.2758	0.5331	0.8498
DTDPRHAMS dTDP-L-rh	0.1713	0.2843	0.547	0.8498
PEPTIDOGL peptidogl	0.1712	0.2727	0.5301	0.8498
PWY-6122 5-amino in	0.1711	0.2671	0.5218	0.8498
PWY-6277 superpath	0.1711	0.2671	0.5218	0.8498
BRANCHED- superpath	0.1698	0.2475	0.4926	0.8498

PWY-6385	peptidogl	0.1698	0.273	0.534	0.8498
PWY-6387	UDP-N-ace	0.1698	0.2723	0.5329	0.8498
PWY-6386	UDP-N-ace	0.1695	0.2726	0.5342	0.8498
TCA	TCA cycle	0.1693	0.3181	0.5946	0.8606
PWY-7229	superpath	0.1687	0.2756	0.5406	0.8498
PWY-3001	superpath	0.1643	0.2435	0.4999	0.8498
PWY-6897	thiamin s	0.1627	0.283	0.5654	0.8498
THRESYN-F	superpath	0.1626	0.2434	0.504	0.8498
PWY-6608	guanosine	0.1617	0.2975	0.5866	0.8567
PWY-7111	pyruvate	0.1608	0.2777	0.5626	0.8498
PWY0-1338	polymyxin	0.16	1.05	0.8789	0.9657
NONOXIPEN	pentose p	0.1583	0.2711	0.5591	0.8498
PWY-5667	CDP-diacy	0.1568	0.2771	0.5714	0.8498
PWY0-1319	CDP-diacy	0.1568	0.2771	0.5714	0.8498
PWY-5100	pyruvate	0.1564	0.2728	0.5663	0.8498
PWY0-1061	superpath	0.1545	0.7047	0.8265	0.9413
DAPLYSINEL	lysine	0.1532	0.2789	0.5827	0.8542
METH-ACET	methanoge	0.1521	0.5667	0.7884	0.9413
PWY-7221	guanosine	0.1507	0.2711	0.5782	0.8508
SALVADEHY	adenosine	0.1491	0.2995	0.6185	0.8704
PWY-6353	purine nu	0.1448	0.268	0.589	0.857
PWY0-162	superpath	0.1424	0.3937	0.7176	0.9257
GLYCOCAT	glycogen	0.1412	0.2695	0.6003	0.8606
PWY-841	superpath	0.141	0.3741	0.7062	0.9163
PWY-7196	superpath	0.1406	0.4399	0.7492	0.9366
PWY-6545	pyrimidin	0.1405	0.3294	0.6698	0.9064
PWY-7220	adenosine	0.136	0.2992	0.6495	0.8928
PWY-7222	guanosine	0.136	0.2992	0.6495	0.8928
PWY0-41	allantoin	0.1353	0.9786	0.8901	0.973
UBISYN-PW	superpath	0.1284	0.558	0.818	0.9413
PHOSLIPSY	superpath	0.1276	0.2817	0.6506	0.8928
PYRIDOXSYP	pyridoxal	0.1274	0.5856	0.8278	0.9413
ARGSYNBSUL	arginin	0.1263	0.2919	0.6652	0.9033
METHYLGAL	methylgal	0.1262	0.09744	0.1951	0.8498
PWY-5855	ubiquinol	0.1253	0.5543	0.8211	0.9413
PWY-5856	ubiquinol	0.1253	0.5543	0.8211	0.9413
PWY-5857	ubiquinol	0.1253	0.5543	0.8211	0.9413
PWY-6708	ubiquinol	0.1253	0.5543	0.8211	0.9413
PWY-6125	superpath	0.1229	0.4098	0.7642	0.9413
PWY-6728	methylasp	0.1205	0.5991	0.8405	0.9413
PWY0-845	superpath	0.1199	0.5765	0.8352	0.9413
PWY-7228	superpath	0.1195	0.4264	0.7793	0.9413
PWY-7400	L-arginin	0.1135	0.2873	0.6929	0.9163
ARGSYN-PWL	arginin	0.1129	0.2882	0.6951	0.9163
DENOVOPUR	superpath	0.1128	0.3624	0.7555	0.9402
PWY-5659	GDP-mannc	0.1115	0.2962	0.7066	0.9163
PWY-6151	S-adenosy	0.1089	0.2909	0.708	0.9163
P124-PWY	Bifidobac	0.1049	0.4452	0.8137	0.9413
GALLATE-E	gallate d	0.1042	0.08108	0.1988	0.8498
PWY-5188	tetrapyrr	0.1027	0.2945	0.7273	0.932
P184-PWY	protocate	0.1021	0.06357	0.1081	0.8498

PWY-1361	benzoyl-C	0.09993	0.06463	0.1221	0.8498
PWY4FS-7	phosphati	0.09965	0.2972	0.7374	0.9326
PWY4FS-8	phosphati	0.09965	0.2972	0.7374	0.9326
PWY-5860	superpath	0.09688	1.073	0.928	0.9842
PWY-5862	superpath	0.09688	1.073	0.928	0.9842
GLYCOLYSI	glycolysi	0.0965	0.286	0.7358	0.9326
PWY-5845	superpath	0.09626	1.069	0.9283	0.9842
PWY-5850	superpath	0.09626	1.069	0.9283	0.9842
PWY-5896	superpath	0.09626	1.069	0.9283	0.9842
PWY-7200	superpath	0.09535	0.3439	0.7816	0.9413
PWY-7197	pyrimidin	0.08998	0.4305	0.8344	0.9413
PWY-6609	adenine a	0.08653	0.3054	0.7769	0.9413
PWY-7184	pyrimidin	0.07929	0.3702	0.8304	0.9413
P122-PWY	heterolac	0.0707	0.365	0.8464	0.9413
PWY0-166	superpath	0.07061	0.2988	0.8132	0.9413
PWY-6317	galactose	0.07	0.2692	0.7949	0.9413
PWY-5189	tetrapyrr	0.06992	0.3002	0.8158	0.9413
PWY-7187	pyrimidin	0.0671	0.2962	0.8208	0.9413
ANAEROFRU	homolacti	0.06427	0.2982	0.8294	0.9413
OANTIGEN-0	-antigen	0.04539	0.3028	0.8808	0.9657
PWY-5484	glycolysi	0.03752	0.3293	0.9093	0.9829
CRNFORCAT	creatinin	0.03406	0.1747	0.8455	0.9413
PWY-6581	spirillox	0.03147	0.02641	0.2334	0.8498
PWY0-12773	-phenylp	0.0312	0.02799	0.2651	0.8498
POLYAMINS	superpath	0.02557	0.4764	0.9572	1
P281-PWY	3-phenylp	0.02232	0.9268	0.9808	1
PWY-5183	superpath	0.02071	0.06137	0.7357	0.9326
PWY-1422	vitamin E	0.01885	0.01606	0.2407	0.8498
SUCSYN-PW	sucrose t	0.01822	0.8511	0.9829	1
GALLATE-Γ	gallate d	0.01573	0.07109	0.8249	0.9413
VALDEG-PWL	-valine	0.01343	0.03347	0.6881	0.9163
PWY-6713	L-rhamnos	0.009946	0.01165	0.3931	0.8498
PWY-5198	factor 42	0.008837	0.02202	0.6882	0.9163
HCAMHPDEG3	-phenylp	0.008317	0.007465	0.2652	0.8498
PWY-6690	cinnamate	0.008317	0.007465	0.2652	0.8498
AEROBACTI	aerobacti	0.005019	0.003948	0.2037	0.8498
P164-PWY	purine nu	0.003879	0.415	0.9925	1
GLCMANNAN	superpath	0.002679	0.3278	0.9935	1
PWY0-1298	superpath	0.00081	0.3318	0.9981	1
P621-PWY	nylon-6 c	0	0.000155	1	1
PWY-5532	adenosine	0	0.000155	1	1
PWY-5941	glycogen	0	0.000155	1	1
PWY-6165	chorismat	0	0.000155	1	1
PWY-6174	mevalonat	0	0.000155	1	1
PWY-6338	superpath	0	0.000155	1	1
PWY-6565	superpath	0	0.000155	1	1
PWY-6731	starch de	0	0.000155	1	1
PWY-6992	1,5-anhyd	0	0.000155	1	1
PWY-7097	vanillin	0	0.000155	1	1
PWY-7098	vanillin	0	0.000155	1	1
PWY-7185	UTP and C	0	0.000155	1	1



PWY-7391 isoprene	0	0.000155	1	1
PWY-6107 chlorosal	-0.00208	0.97	0.9983	1
PWY-7031 protein N	-0.00806	0.0306	0.7923	0.9413
ARGDEG-PWsuperpath	-0.01179	0.09892	0.9051	0.9812
ORNARGDEGsuperpath	-0.01179	0.09892	0.9051	0.9812
PWY-6948 sitosterc	-0.01735	0.02281	0.4468	0.8498
PWY-7255 ergothion	-0.02426	0.04651	0.602	0.8606
PWY0-1297superpath	-0.02775	0.3549	0.9377	0.9888
PWY0-1296purine ri	-0.03099	0.3662	0.9325	0.9861
UDPNAGSYNUDP-N-ace	-0.03657	0.3915	0.9256	0.9842
PWY-621 sucrose d	-0.04837	0.3223	0.8807	0.9657
PWY-6891 thiazole	-0.04901	0.5353	0.927	0.9842
PWY-6901 superpath	-0.05678	0.2844	0.8417	0.9413
P161-PWY acetylene	-0.0702	0.3765	0.8521	0.9449
ARG+POLYASuperpath	-0.07036	0.3961	0.859	0.9498
RHAMCAT-FL-rhamnos	-0.08677	0.3142	0.7824	0.9413
PWY-181 photoresp	-0.09026	0.6718	0.8931	0.9736
PENTOSE-Fpentose p	-0.09543	0.3464	0.783	0.9413
P23-PWY reductive	-0.09596	0.2973	0.7469	0.9366
PWY-7431 aromatic	-0.1016	0.5058	0.8408	0.9413
LIPASYN-Fphospholi	-0.1063	0.1184	0.3693	0.8498
PWY-3661 glycine b	-0.1092	0.1796	0.5429	0.8498
PWY-7456 mannan de	-0.1112	0.3484	0.7497	0.9366
PWY-5918 superpath	-0.117	0.3028	0.6993	0.9163
PWY-5913 TCA cycle	-0.118	0.4007	0.7684	0.9413
PWY0-1415superpath	-0.1241	0.4956	0.8023	0.9413
HEME-BIOSheme bios	-0.1638	0.3398	0.6299	0.8769
PWY-6404 superpath	-0.1643	0.216	0.4468	0.8498
PWY-7211 superpath	-0.1651	0.4299	0.701	0.9163
PWY-1541 superpath	-0.1717	0.8626	0.8422	0.9413
PWY-5347 superpath	-0.1833	0.2979	0.5383	0.8498
PWY-7003 glycerol	-0.1895	0.7808	0.8083	0.9413
ARGORNPRCarginine,	-0.1905	0.5986	0.7502	0.9366
HSERMETANL-methion	-0.2091	0.3555	0.5565	0.8498
PWY-5384 sucrose d	-0.2341	0.658	0.7221	0.9284
MET-SAM-Fsuperpath	-0.2378	0.3235	0.4623	0.8498
POLYAMSYNsuperpath	-0.2531	0.499	0.612	0.8676
HOMOSER-ML-methion	-0.2589	0.3369	0.4422	0.8498
PWY0-1261anhydromu	-0.2726	0.4731	0.5646	0.8498
CODH-PWY reductive	-0.294	0.6413	0.6466	0.8928
PWY-7295 L-arabinc	-0.3071	0.2108	0.1452	0.8498
DENITRIFInitrate r	-0.3076	0.5976	0.6067	0.8632
HEXITOLDEsuperpath	-0.3218	0.4496	0.4741	0.8498
PWY-5022 4-aminobu	-0.3384	0.7021	0.6299	0.8769
PWY0-781 aspartate	-0.3449	0.3812	0.3656	0.8498
PWY-5180 toluene d	-0.3475	0.781	0.6564	0.8945
PWY-5182 toluene d	-0.3475	0.781	0.6564	0.8945
TEICHOICATEichoic	-0.3485	0.4304	0.4181	0.8498
P4-PWY superpath	-0.3525	0.3735	0.3452	0.8498
ENTBACSYNEnterobac	-0.3782	0.7517	0.6149	0.8685
THREOCAT-superpath	-0.3788	0.7188	0.5982	0.8606

PWY-7377	cob(II)yr	-0.4135	0.737	0.5747	0.8498
PRPP-PWY	superpath	-0.4349	0.4018	0.279	0.8498
PWY-4984	urea cycl	-0.4503	0.5893	0.4448	0.8498
PWY-5415	catechol	-0.4887	0.9387	0.6026	0.8606
PWY-5005	biotin bi	-0.5002	0.8929	0.5753	0.8498
PWY0-1479	tRNA proc	-0.5257	0.4702	0.2635	0.8498
PWY-6630	superpath	-0.5348	0.6143	0.384	0.8498
PWY-6628	superpath	-0.5489	0.6186	0.3749	0.8498
PWY-6071	superpath	-0.5599	0.6298	0.3741	0.8498
PWY-3781	aerobic r	-0.5604	0.3177	0.07771	0.8354
HEMESYN2	-heme bios	-0.563	0.327	0.08513	0.8498
PWY-2941	L-lysine	-0.5832	0.6498	0.3695	0.8498
P125-PWY	superpath	-0.5882	0.7764	0.4487	0.8498
P461-PWY	hexitol f	-0.5934	0.5553	0.2852	0.8498
RUMP-PWY	formaldehy	-0.6047	0.5835	0.3001	0.8498
PWY-5747	2-methylc	-0.6091	0.5715	0.2865	0.8498
GLYCOLYSIS	superpath	-0.6141	0.4254	0.1488	0.8498
GLYOXYLAT	glyoxylat	-0.6288	0.5377	0.2422	0.8498
GLUCOSE1P	glucose a	-0.6412	0.655	0.3276	0.8498
PWY-5920	superpath	-0.6659	0.622	0.2844	0.8498
PWY-5345	superpath	-0.6661	0.3711	0.07268	0.8273
PWY-1861	formaldehy	-0.6907	0.6768	0.3074	0.8498
TCA-GLYOX	superpath	-0.7041	0.4543	0.1212	0.8498
PWY0-42	2-methylc	-0.7084	0.5598	0.2058	0.8498
PWY-6397	mycolyl-a	-0.7121	1.04	0.4935	0.8498
PWY-7392	taxadiene	-0.7795	0.6187	0.2077	0.8498
AST-PWY	L-arginin	-0.7824	0.6924	0.2585	0.8498
PWY-5507	adenosylc	-0.8311	0.8048	0.3017	0.8498
PWY-6396	superpath	-0.8385	0.9918	0.3979	0.8498
PWY-7527	L-methion	-0.8794	0.938	0.3485	0.8498
PWY-4361	S-methyl-	-0.9004	0.9619	0.3492	0.8498
P105-PWY	TCA cycle	-0.936	0.8219	0.2548	0.8498
P381-PWY	adenosylc	-0.9504	0.758	0.2099	0.8498
P101-PWY	ectoine b	-0.9583	0.9638	0.3201	0.8498
PWY490-3	nitrate r	-0.962	0.8065	0.233	0.8498
PWY-7376	cob(II)yr	-0.963	0.7652	0.2082	0.8498
PWY-7234	inosine-5	-0.9656	0.8259	0.2423	0.8498
PWY-5417	catechol	-0.9901	0.7736	0.2006	0.8498
PWY-5431	aromatic	-0.9901	0.7736	0.2006	0.8498
PWY-5178	toluene d	-0.9919	NaN	NaN	NaN
PWY-5838	superpath	-1.01	1.022	0.323	0.8498
PWY-6906	chitin de	-1.018	0.7487	0.1739	0.8498
PWY-5840	superpath	-1.021	1.027	0.3203	0.8498
LEU-DEG2	-L-leucine	-1.025	0.7299	0.1601	0.8498
PWY-5861	superpath	-1.031	1.034	0.3187	0.8498
PWY-5897	superpath	-1.032	1.033	0.318	0.8498
PWY-5898	superpath	-1.032	1.033	0.318	0.8498
PWY-5899	superpath	-1.032	1.033	0.318	0.8498
PWY-6182	superpath	-1.065	0.631	0.09147	0.8498
PWY0-321	phenylace	-1.08	0.555	0.05177	0.6401
PWY-5863	superpath	-1.098	1.072	0.3058	0.8498

PWY-5837	1,4-dihyd	-1.1	1.073	0.3054	0.8498
PWY-7094	fatty aci	-1.124	0.7127	0.1146	0.8498
PWY-5910	superpath	-1.178	0.9935	0.2356	0.8498
PWY-922	mevalonat	-1.186	1.001	0.236	0.8498
PWY-722	nicotinat	-1.301	1.02	0.2022	0.8498
PROTCATE	protocate	-1.328	1.063	0.2117	0.8498
TYRFUMCATL	-tyrosin	-1.351	0.4857	0.005393	0.1897
PWY-5420	catechol	-1.368	1.125	0.2241	0.8498
CATECHOL	-catechol	-1.381	1.104	0.2108	0.8498
PWY-5419	catechol	-1.483	1.202	0.2171	0.8498
PWY-6470	peptidogl	-1.486	1.125	0.1866	0.8498
P221-PWY	octane ox	-1.55	0.968	0.1093	0.8498
PWY-6210	2-aminoph	-1.556	1.004	0.1212	0.8498
PWY-6562	norspermi	-1.594	0.5936	0.007241	0.2
PWY-5655	L-tryptop	-1.629	0.8729	0.06198	0.7269
PWY-5028	L-histidi	-1.682	0.3994	2.55E-05	0.009858
GOLPDLCAI	superpath	-1.777	NaN	NaN	NaN
PWY-5181	toluene d	-1.825	0.576	0.001531	0.1173
PWY-6185	4-methylc	-1.858	0.6136	0.002455	0.1188
PWY-6876	isopropan	-1.903	1.349	0.1584	0.8498
DHGLUCONA	glucose d	-2.029	0.8878	0.02231	0.4317
PWY-5654	2-amino-3	-2.065	0.7241	0.004337	0.1678
LACTOSECA	lactose a	-2.077	0.9399	0.02712	0.4771
PWY-7616	methanol	-2.167	0.5769	0.000172	0.02222
PWY-5647	2-nitrobe	-2.173	0.7893	0.005894	0.1901
PWY-5265	peptidogl	-2.207	0.9468	0.01973	0.4019
NADSYN-PWNAD	biosy	-2.271	0.739	0.00212	0.1173
PWY-5651	L-tryptop	-2.273	0.7398	0.002122	0.1173
PWY-6505	L-tryptop	-2.299	0.7995	0.004031	0.1678
PWY-5430	meta clea	-2.369	0.6573	0.000313	0.03025
PWY-6383	mono-tran	-2.629	1.023	0.01017	0.2315
PWY1G-0	mycothiol	-2.66	1.031	0.009894	0.2315
PWY-7007	methyl ke	-3.268	0.8135	5.88E-05	0.01137

phylum

ID	M1	M2	M3	M4	M5	M6	M8	K1
Bacteroid	0.264676	0.171506	0.483209	0.067191	0.663354	0.432761	0.606864	0.837383
Firmicute	0.501191	0.598783	0.411019	0.824274	0.310895	0.504274	0.327246	0.146686
Actinobac	0.212254	0.208607	0.054489	0.097563	0.005951	0.02872	0.03577	0.000445
Proteobac	0.008611	0.009846	0.034942	0.004699	0.009158	0.019914	0.017454	0.006377
Tenericut	0.001596	0.000804	0.006629	0.000796	0.001224	0.001381	0.000445	0.000127
Elusimicr	0.000314	0.000913	0.00102		0.000779	0.002245	0.000139	0.000508
Cyanobact	0.000105	0.000435	0.001505	0.000136	0.000371	0.000288	0.001615	0.002224
TM7	0.000157	0.002304	0.000146	0.001476	0.000148	0.000345	0.000139	0
Spirochae	0	0	0	0	0.000204	8.63E-05	5.57E-05	0
Deferriba	0	0	4.86E-05	5.83E-05	0	0	0	8.47E-05
Others	0.011097	0.006803	0.006993	0.003806	0.007916	0.009986	0.010272	0.006165

K2	K3	K4	K5	K6	K7	DX1	DX2	DX3
0.562139	0.809646	0.841511	0.583007	0.419274	0.213321	0.789078	0.716719	0.63663
0.412749	0.173867	0.144293	0.391778	0.544893	0.75139	0.182471	0.259771	0.343202
0.00054	0.000744	0.00034	0.001022	0.002876	0.00226	0.001468	0.008845	0.004273
0.009698	0.007974	0.005716	0.011735	0.023125	0.022931	0.016995	0.005843	0.01159
0.007336	7.69E-05	4.25E-05	0.003364	0.002389	0.001818	0.000133	0.000159	0.000353
0.00189	0.000462	0.000723	0.000972	0.003786	0.002136	0.000133	0.001432	0.000269
0.00153	0.001103	0.001105	0.003314	0.000683	0.001642	0.000289	0.000523	0.000521
0.000743	0.000282	0	0.000174	0.000845	0.001095	0	0.000159	0.000353
0.000158	0	0	0	0	0.000918	8.90E-05	6.82E-05	8.41E-05
0	5.13E-05	0	7.48E-05	0	0.000194	0	0.000136	0
0.003218	0.005795	0.006269	0.00456	0.002129	0.002295	0.009343	0.006344	0.002725

DX4	DX5	DX6	DX7	G1	G3	G4	G5	G6
0.391609	0.4619	0.634294	0.559292	0.220357	0.420308	0.620673	0.659924	0.497115
0.577082	0.51053	0.331581	0.409689	0.753944	0.555591	0.36337	0.32826	0.479468
0.004062	0.004761	0.008784	0.006449	0.002822	0.000941	0.002391	0.000249	0.001785
0.015203	0.015708	0.016619	0.015856	0.017215	0.013896	0.005977	0.007093	0.005788
0.001169	0.000814	0.000268	0.000388	0.000586	0.000897	0.002572	0.00065	0.008514
0.004698	0.002747	0.000907	0.000388	0.000781	0.000159	0.001503	0.000134	0.002932
0.001477	0.000733	0.000557	0.001551	0.001473	0.006716	0.001612	0.001052	0.000526
0.000616	0.000244	0.000351	0.000327	0.001597	0.000492	0.000254	0.000249	0.000545
0.000164	0	0.000309	0.000122	0	0	0	0	0
8.21E-05	0	0	0	3.55E-05	0	5.43E-05	0	7.52E-05
0.003837	0.002564	0.00633	0.005938	0.001189	0.000999	0.001594	0.00239	0.003251

G7	G8	Z1	Z2	Z3	Z4	Z5	Z6	Z7
0.411646	0.452242	0.210225	0.630139	0.769513	0.427727	0.359414	0.275222	0.387636
0.567602	0.507427	0.75925	0.35391	0.216358	0.558682	0.606222	0.683792	0.601902
0.003245	0.004416	0.004332	0.001791	0.000482	0.000553	0.01174	0.000725	0.000949
0.009218	0.029183	0.019132	0.007204	0.008624	0.009295	0.015286	0.030637	0.004167
0.002596	0.002402	0.001354	0.00021	0.00039	0.000957	0.000367	0.001156	0.000703
0.000973	0.000508	0.001827	0.002497	0.000528	0.000255	0.002519	0.000804	0.00116
0.000708	0.000406	0.00018	0.000648	0.001307	0.000468	0.000122	0.002097	0.000826
0.001224	0.001489	0.000835	0.000114	0.000138	0.000468	0.000587	0.000686	0.001037
0.000206	0	0.000158	5.72E-05	4.59E-05	0	0	0.001764	0
0	0	6.77E-05	0	0	0	0	0.001215	0
0.002581	0.001929	0.00264	0.00343	0.002615	0.001595	0.003742	0.001901	0.001618

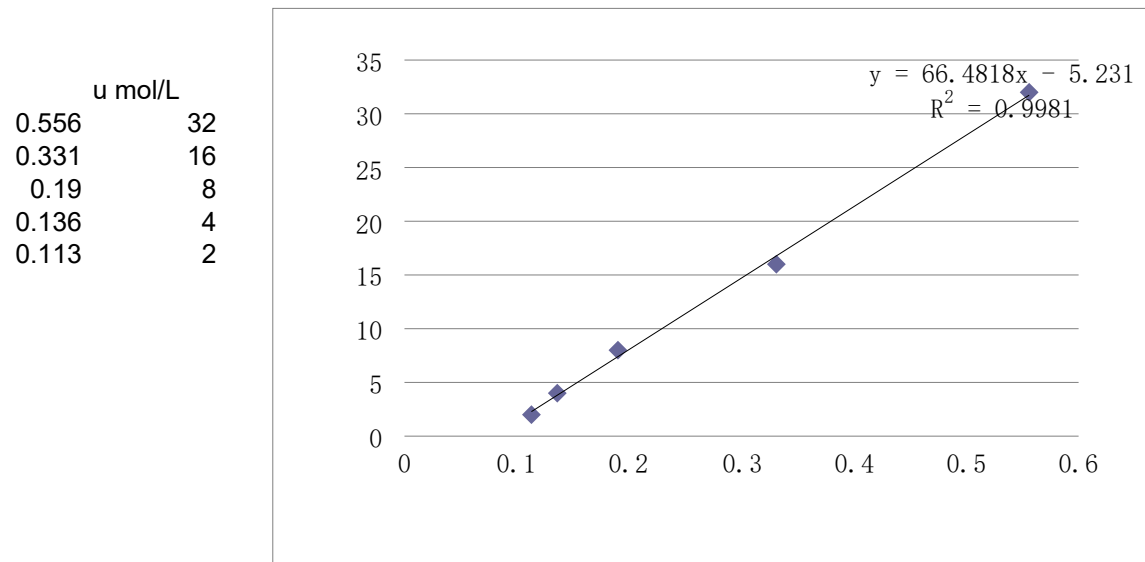
D1	D2	D3	D4	D5	D6	D7
0.735779	0.592705	0.551915	0.199381	0.563919	0.586654	0.243422
0.241535	0.351887	0.421368	0.762619	0.404931	0.385629	0.720489
0.003368	0.020551	0.003739	0.001487	0.002846	0.000448	0.010179
0.006712	0.021289	0.015163	0.014657	0.021951	0.013032	0.015565
0.004164	0.008008	0.001168	0.008469	0.002091	0	0.002729
0.001115	0.000936	0.00013	0.007497	0.000692	0.007987	0.00083
0.001274	0.001206	0.001039	0.001091	0.00206	0.002746	0.000593
0.00025	0.000828	0.001013	0.001765	0.000142	0.000252	0.000522
6.83E-05	0	0.000182	0.000317	0	0	0.000166
0	7.20E-05	0	0.000337	0.000236	0	7.12E-05
0.005734	0.002519	0.004284	0.00238	0.001132	0.003251	0.005434



GABA

	1	2	3	4	5	6	7				
A	0.03	0.37	0.275	0.293	0.331	0.399	0.402				450
B	0.586	0.381	0.269	0.328	0.351	0.394	0.393				450
C	0.361	0.355	0.275	0.283	0.294	0.369	0.385				450
D	0.22	0.358	0.303	0.319	0.322	0.394	0.433				450
E	0.166	0.365	0.28	0.312	0.34	0.411	0.468				450
F	0.143	0.369	0.282	0.354	0.352	0.404	0.385				450
G		0.358	0.3	0.344	0.32	0.375	0.377				450
H		0.358	0.296	0.34	0.345	0.358	0.384				450

	1	2	3	4	5	6	7
A	0	0.34	0.245	0.263	0.301	0.369	0.372
B	0.556	0.351	0.239	0.298	0.321	0.364	0.363
C	0.331	0.325	0.245	0.253	0.264	0.339	0.355
D	0.19	0.328	0.273	0.289	0.292	0.364	0.403
E	0.136	0.335	0.25	0.282	0.31	0.381	0.438
F	0.113	0.339	0.252	0.324	0.322	0.374	0.355
G		0.328	0.27	0.314	0.29	0.345	0.347
H		0.328	0.266	0.31	0.315	0.328	0.354



Concentrations	K	M	DX	D	Z	G
A	17.37	11.06	12.25	14.78	19.30	19.50
B	18.10	10.66	14.58	16.11	18.97	18.90
C	16.38	11.06	11.59	12.32	17.31	18.37
D	16.57	12.92	13.98	14.18	18.97	21.56
E	17.04	11.39	13.52	15.38	20.10	23.89
F	17.31	11.52	16.31	16.18	19.63	18.37
G	16.57	12.72	15.64	14.05	17.70	17.84
H	16.57	12.45	15.38	15.71	16.57	18.30

	K	M	DX	D	Z	G
mean value	16.99	11.72	14.16	14.84	18.57	19.59

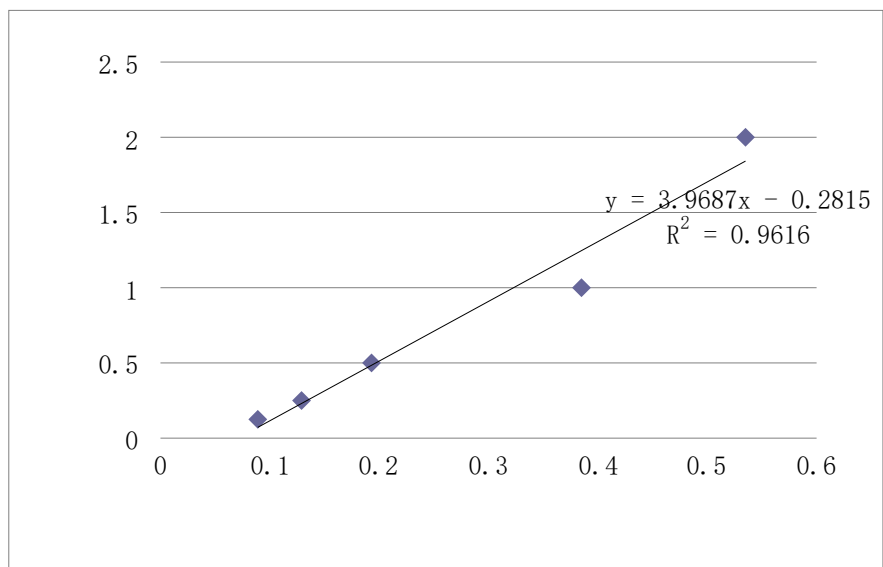
standard d	0.55	0.80	1.55	1.22	1.15	1.95
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GAD65

	1	2	3	4	6	7	8				
A	0.032	0.438	0.354	0.424	0.372	0.405	0.45				450
B	0.567	0.414	0.328	0.419	0.343	0.393	0.426				450
C	0.417	0.446	0.366	0.384	0.35	0.38	0.408				450
D	0.225	0.445	0.363	0.411	0.374	0.392	0.443				450
E	0.161	0.429	0.376	0.429	0.297	0.393	0.436				450
F	0.121	0.448	0.387	0.419	0.323	0.405	0.438				450
G		0.426	0.377	0.453	0.342	0.399	0.421				450
H		0.419	0.36	0.514	0.362	0.396	0.422				450

	1	2	3	4	6	7	8
A	0	0.406	0.322	0.392	0.34	0.373	0.418
B	0.535	0.382	0.296	0.387	0.311	0.361	0.394
C	0.385	0.414	0.334	0.352	0.318	0.348	0.376
D	0.193	0.413	0.331	0.379	0.342	0.36	0.411
E	0.129	0.397	0.344	0.397	0.265	0.361	0.404
F	0.089	0.416	0.355	0.387	0.291	0.373	0.406
G		0.394	0.345	0.421	0.31	0.367	0.389
H		0.387	0.328	0.482	0.33	0.364	0.39

ng/ml  
 0.535 2  
 0.385 1  
 0.193 0.5  
 0.129 0.25  
 0.089 0.125



Concentrations	1	2	3	4	6	7	8
A		1.33	1.00	1.27	1.07	1.20	1.38
B		1.23	0.89	1.25	0.95	1.15	1.28
C		1.36	1.04	1.12	0.98	1.10	1.21
D		1.36	1.03	1.22	1.08	1.15	1.35
E		1.29	1.08	1.29	0.77	1.15	1.32
F		1.37	1.13	1.25	0.87	1.20	1.33
G		1.28	1.09	1.39	0.95	1.18	1.26
H		1.25	1.02	1.63	1.03	1.16	1.27

mean value      K      M      DX      D      Z      G

1.31      1.04      1.30      0.96      1.16      1.30

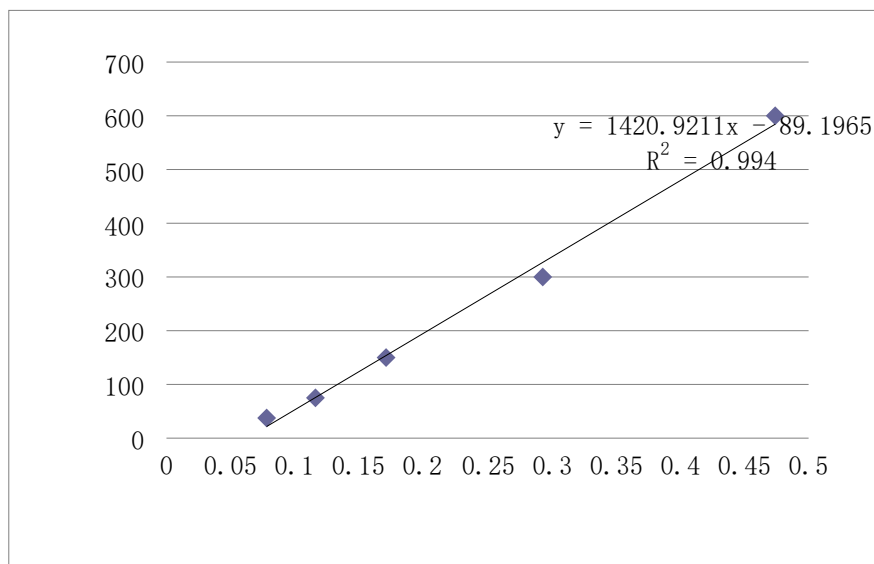
standard d	0.05	0.07	0.14	0.10	0.03	0.05
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Gln

	1	2	3	4	5	6	7				
A	0.03	0.37	0.276	0.288	0.35	0.408	0.457				450
B	0.504	0.364	0.261	0.284	0.41	0.431	0.415				450
C	0.323	0.354	0.254	0.288	0.304	0.36	0.349				450
D	0.201	0.375	0.296	0.297	0.329	0.39	0.384				450
E	0.146	0.369	0.274	0.313	0.328	0.407	0.394				450
F	0.108	0.357	0.282	0.313	0.347	0.377	0.372				450
G		0.351	0.275	0.311	0.316	0.367	0.42				450
H		0.351	0.275	0.308	0.324	0.362	0.397				450

	1	2	3	4	5	6	7
A	0	0.34	0.246	0.258	0.32	0.378	0.427
B	0.474	0.334	0.231	0.254	0.38	0.401	0.385
C	0.293	0.324	0.224	0.258	0.274	0.33	0.319
D	0.171	0.345	0.266	0.267	0.299	0.36	0.354
E	0.116	0.339	0.244	0.283	0.298	0.377	0.364
F	0.078	0.327	0.252	0.283	0.317	0.347	0.342
G		0.321	0.245	0.281	0.286	0.337	0.39
H		0.321	0.245	0.278	0.294	0.332	0.367

u mol/L  
 0.474 600  
 0.293 300  
 0.171 150  
 0.116 75  
 0.078 37.5



Concentrations	1	2	3	4	5	6	7
A		393.61	260.13	277.17	365.21	447.57	517.15
B		385.09	238.83	271.49	450.41	480.23	457.51
C		370.89	228.89	277.17	299.89	379.41	363.79
D		400.71	288.53	289.95	335.39	422.01	413.49
E		392.19	257.29	312.67	333.97	446.15	427.69
F		375.15	268.65	312.67	360.95	403.55	396.45
G		366.63	258.71	309.83	316.93	389.35	464.61
H		366.63	258.71	305.57	328.29	382.25	431.95

mean value      K                      M                      DX                      D                      Z                      G

381.36      257.47      294.57      348.88      418.82      434.08

standard d	12.44	16.82	16.46	43.26	34.18	43.60
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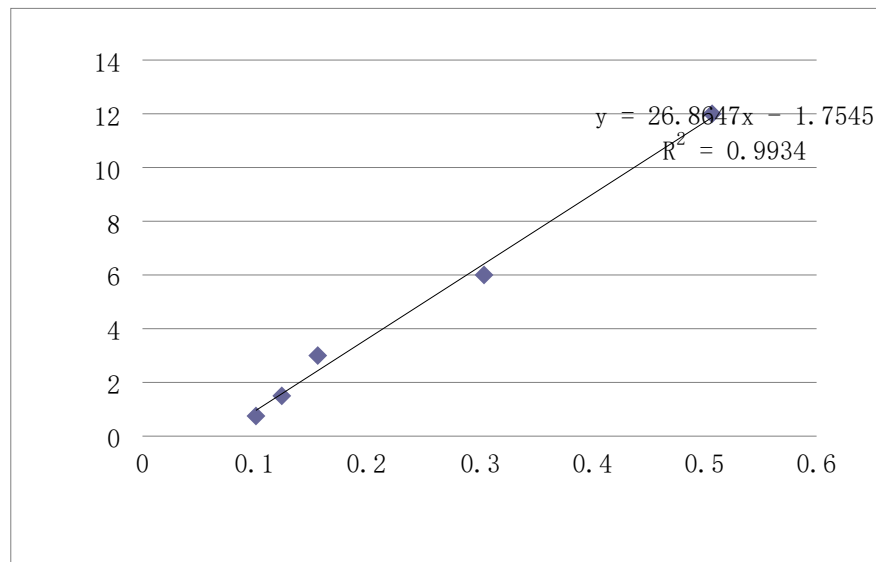
Glu

	1	2	3	4	5	6	7				
A	0.029	0.334	0.518	0.458	0.449	0.445	0.423				450
B	0.536	0.296	0.428	0.333	0.442	0.364	0.375				450
C	0.333	0.282	0.471	0.41	0.455	0.425	0.419				450
D	0.185	0.276	0.461	0.42	0.461	0.418	0.386				450
E	0.153	0.329	0.5	0.467	0.502	0.481	0.445				450
F	0.13	0.34	0.483	0.465	0.491	0.452	0.434				450
G		0.32	0.498	0.453	0.481	0.447	0.443				450
H		0.324	0.512	0.49	0.479	0.438	0.459				450

	1	2	3	4	5	6	7
A	0	0.305	0.489	0.429	0.42	0.416	0.394
B	0.507	0.267	0.399	0.304	0.413	0.335	0.346
C	0.304	0.253	0.442	0.381	0.426	0.396	0.39
D	0.156	0.247	0.432	0.391	0.432	0.389	0.357
E	0.124	0.3	0.471	0.438	0.473	0.452	0.416
F	0.101	0.311	0.454	0.436	0.462	0.423	0.405
G	-0.029	0.291	0.469	0.424	0.452	0.418	0.414
H	-0.029	0.295	0.483	0.461	0.45	0.409	0.43

u mol/L

0.507	12
0.304	6
0.156	3
0.124	1.5
0.101	0.75



Concentrations	1	2	3	4	5	6	7
A		6.44	11.38	9.77	9.53	9.42	8.83
B		5.42	8.96	6.41	9.34	7.24	7.54
C		5.04	10.12	8.48	9.69	8.88	8.72
D		4.88	9.85	8.75	9.85	8.69	7.84
E		6.30	10.90	10.01	10.95	10.39	9.42
F		6.60	10.44	9.96	10.66	9.61	9.12
G		6.06	10.84	9.63	10.39	9.47	9.37
H		6.17	11.22	10.63	10.33	9.23	9.80

	K	M	DX	D	Z	G
mean value	5.86	10.46	9.20	10.09	9.12	8.83

standard d	0.62	0.75	1.24	0.54	0.85	0.73
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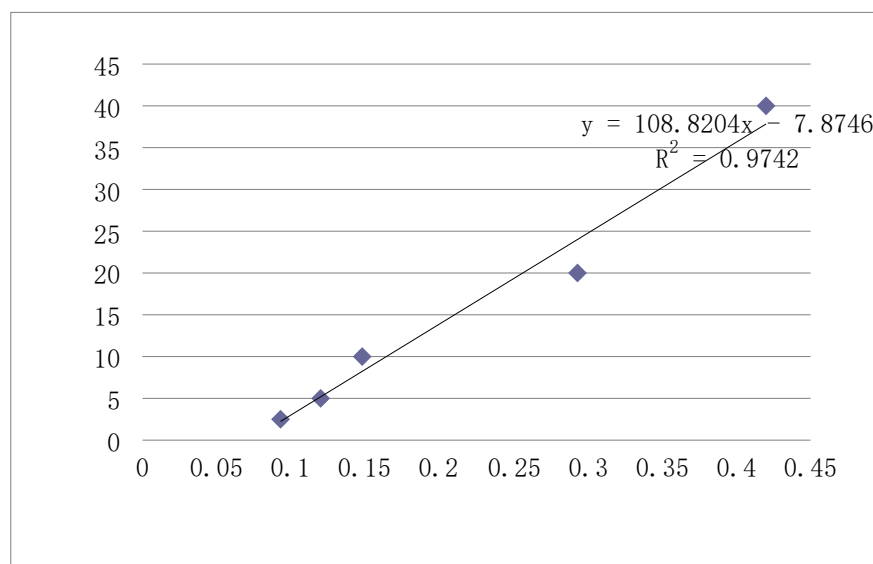


GS

	1	2	3	4	5	6	7				
A	0.031	0.37	0.365	0.395	0.334	0.403	0.379				450
B	0.451	0.407	0.333	0.409	0.36	0.364	0.393				450
C	0.324	0.404	0.326	0.373	0.327	0.38	0.359				450
D	0.179	0.415	0.335	0.388	0.345	0.394	0.42				450
E	0.151	0.428	0.367	0.414	0.396	0.406	0.446				450
F	0.124	0.342	0.369	0.404	0.364	0.375	0.422				450
G		0.407	0.335	0.392	0.347	0.395	0.43				450
H		0.414	0.34	0.382	0.348	0.402	0.372				450

	1	2	3	4	5	6	7
A	0	0.339	0.334	0.364	0.303	0.372	0.348
B	0.42	0.376	0.302	0.378	0.329	0.333	0.362
C	0.293	0.373	0.295	0.342	0.296	0.349	0.328
D	0.148	0.384	0.304	0.357	0.314	0.363	0.389
E	0.12	0.397	0.336	0.383	0.365	0.375	0.415
F	0.093	0.311	0.338	0.373	0.333	0.344	0.391
G		0.376	0.304	0.361	0.316	0.364	0.399
H		0.383	0.309	0.351	0.317	0.371	0.341

n mol/L	
0.42	40
0.293	20
0.148	10
0.12	5
0.093	2.5



Concentrations	1	2	3	4	5	6	7
A		29.01	28.47	31.73	25.09	32.60	29.99
B		33.03	24.98	33.25	27.92	28.36	31.51
C		32.71	24.22	29.34	24.33	30.10	27.81
D		33.91	25.20	30.97	26.29	31.62	34.45
E		35.32	28.68	33.80	31.84	32.93	37.28
F		25.96	28.90	32.71	28.36	29.55	34.67
G		33.03	25.20	31.40	26.51	31.73	35.54
H		33.80	25.75	30.31	26.62	32.49	29.23

	K	M	DX	D	Z	G
mean value	32.10	26.43	31.69	27.12	31.17	32.56

standard d	2.87	1.79	1.41	2.17	1.54	3.17
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Replicate Group	Gabaar $\alpha$ 1			$\beta$ -actin			Efficiency	Relative Expression Ratio		mean value	standard deviation
	Ct (dRn)	Ct <sub>Gabra1</sub> 正常	$\Delta$ Ct <sub>Gabra1</sub>	Ct (dRn)	Ct <sub><math>\beta</math>-actin</sub> 正常	$\Delta$ Ct <sub><math>\beta</math>-actin</sub>					
1 K	26.24	26.67	0.43	27.56	27.85	0.29	E <sub><math>\beta</math>-actin</sub>	1.08			
2 K	26.9		-0.23	28.01		-0.16	103.5%	0.96			
3 K	26.38		0.29	27.67		0.18	E <sub>Gabra1</sub>	1.06	K	1.00	0.07
4 K	26.91		-0.25	28.16		-0.31	95.8%	1.06	M	0.63	0.03
5 K	26.82		-0.16	28.04		-0.19		1.03	DX	0.77	0.06
6 K	27.01		-0.35	27.95		-0.10		0.85	D	0.75	0.06
7 K	26.77		-0.11	27.88		-0.03		0.95	Z	0.93	0.07
8 K	26.29		0.38	27.54		0.31		1.03	G	1.01	0.08
9 M	27.39		-0.73	27.91		-0.06		0.64			
10 M	27.42		-0.76	27.92		-0.07		0.63			
11 M	26.89		-0.23	27.53		0.32		0.68			
12 M	27.66		-1.00	28.21		-0.36		0.66			
13 M	28.09		-1.43	28.48		-0.63		0.60			
14 M	27.72		-1.06	28.25		-0.40		0.65			
15 M	27.02		-0.36	27.52		0.33		0.62			
16 M	28.08		-1.42	28.4		-0.55		0.57			
17 DX	27.88		-1.22	28.46		-0.61		0.68			
18 DX	27.67		-1.01	28.34		-0.49		0.72			
19 DX	27.51		-0.85	28.46		-0.61		0.87			
20 DX	27.46		-0.80	28.13		-0.28		0.71			
21 DX	27.37		-0.71	28.1		-0.25		0.74			
22 DX	26.85		-0.19	27.77		0.08		0.83			
23 DX	27.36		-0.70	28.18		-0.33		0.79			
24 DX	27.12		-0.46	27.9		-0.05		0.76			
25 D	27.16		-0.50	28.08		-0.23		0.84			
26 D	27.24		-0.57	28.17		-0.32		0.85			
27 D	27.64		-0.98	28.32		-0.47		0.72			
28 D	27.4		-0.73	28.2		-0.35		0.78			
29 D	26.86		-0.20	27.56		0.29		0.71			
30 D	27.12		-0.46	27.84		0.01		0.73			
31 D	27		-0.34	27.65		0.20		0.69			
32 D	27.52		-0.86	28.12		-0.27		0.68			
33 Z	27.51		-0.85	28.43		-0.58		0.86			
34 Z	27.01		-0.35	27.99		-0.14		0.88			
35 Z	27.5		-0.84	28.42		-0.57		0.85			
36 Z	26.28		0.38	27.52		0.33		1.02			
37 Z	27.39		-0.73	28.48		-0.63		0.96			
38 Z	27.18		-0.52	28.18		-0.33		0.89			
39 Z	26.34		0.32	27.58		0.27		1.03			
40 G	26.81		-0.15	27.81		0.04		0.88			
41 G	27.17		-0.51	28.35		-0.50		1.02			
42 G	26.66		0.00	27.97		-0.12		1.09			
43 G	26.41		0.25	27.66		0.19		1.04			
44 G	26.59		0.07	27.94		-0.09		1.12			
45 G	26.66		0.00	27.73		0.12		0.92			

46 G		26.82	-0.16		27.97	-0.12		0.98
47 G		26.79	-0.13		28.02	-0.17		1.04

Replicate Group	GluR-A			β-actin			Efficiency	Relative Expression Ratio		
	Ct (dRn)	Ct <sub>GluR-A</sub> 正常	ΔCt <sub>GluR-A</sub>	Ct (dRn)	Ct <sub>β-actin</sub> 正常	ΔCt <sub>β-actin</sub>			mean value	standard deviation
1 K	29.12	29.31	0.19	27.56	27.85	0.29	E <sub>β-actin</sub>	0.92		
2 K	29.41		-0.10	28.01		-0.16	103.5%	1.05		
3 K	29.06		0.25	27.67		0.18	E <sub>GluR-A</sub>	1.04	K	1.00 0.07
4 K	29.59		-0.28	28.16		-0.31	90.6%	1.04	M	3.28 0.24
5 K	29.4		-0.09	28.04		-0.19		1.08	DX	2.42 0.28
6 K	29.6		-0.29	27.95		-0.10		0.89	D	2.58 0.18
7 K	29.44		-0.13	27.88		-0.03		0.94	Z	2.13 0.14
8 K	28.89		0.42	27.54		0.31		1.05	G	1.85 0.17
9 M	27.66		1.65	27.91		-0.06		3.03		
10 M	27.64		1.67	27.92		-0.07		3.09		
11 M	26.97		2.34	27.53		0.32		3.61		
12 M	27.85		1.46	28.21		-0.36		3.32		
13 M	28.31		1.00	28.48		-0.63		2.99		
14 M	27.93		1.38	28.25		-0.40		3.24		
15 M	27.13		2.18	27.52		0.33		3.23		
16 M	27.89		1.42	28.4		-0.55		3.70		
17 DX	28.78		0.53	28.46		-0.61		2.17		
18 DX	28.6		0.71	28.34		-0.49		2.24		
19 DX	28.43		0.88	28.46		-0.61		2.73		
20 DX	28.32		0.99	28.13		-0.28		2.31		
21 DX	28.07		1.24	28.1		-0.25		2.66		
22 DX	28.02		1.29	27.77		0.08		2.17		
23 DX	28.48		0.83	28.18		-0.33		2.16		
24 DX	27.72		1.59	27.9		-0.05		2.89		
25 D	27.99		1.32	28.08		-0.23		2.76		
26 D	28.33		0.98	28.17		-0.32		2.37		
27 D	28.39		0.92	28.32		-0.47		2.53		
28 D	28.22		1.09	28.2		-0.35		2.59		
29 D	27.49		1.82	27.56		0.29		2.64		
30 D	28.01		1.30	27.84		0.01		2.30		
31 D	27.44		1.87	27.65		0.20		2.90		
32 D	28.17		1.14	28.12		-0.27		2.53		
33 Z	28.9		0.41	28.43		-0.58		1.97		
34 Z	28.23		1.08	27.99		-0.14		2.22		
35 Z	28.92		0.39	28.42		-0.57		1.93		
36 Z	27.69		1.62	27.52		0.33		2.25		
37 Z	28.9		0.41	28.48		-0.63		2.04		
38 Z	28.43		0.88	28.18		-0.33		2.23		
39 Z	27.73		1.58	27.58		0.27		2.29		
40 G	28.15		1.16	27.81		0.04		2.06		
41 G	28.85		0.46	28.35		-0.50		1.92		
42 G	28.57		0.74	27.97		-0.12		1.76		
43 G	28.04		1.27	27.66		0.19		1.99		
44 G	28.36		0.95	27.94		-0.09		1.97		
45 G	28.47		0.84	27.73		0.12		1.58		

46 G		28.7	0.61		27.97	-0.12		1.62
47 G		28.51	0.80		28.02	-0.17		1.89

Replicate Group	mGluR5			β-actin			Efficiency	Relative Expression Ratio	mean valustandard deviation	
	Ct (dRn)	Ct <sub>mGluR5</sub> 正常	ΔCt <sub>mGluR5</sub>	Ct (dRn)	Ct <sub>β-actin</sub> 正常	ΔCt <sub>β-actin</sub>				
1 K	27.83	28.15	0.32	27.56	27.85	0.29	E <sub>β-actin</sub>	1.02		
2 K	28.28		-0.13	28.01		-0.16	103.5%	1.02		
3 K	28.06		0.09	27.67		0.18	E <sub>mGluR5</sub>	0.94	K	1.00 0.09
4 K	28.53		-0.38	28.16		-0.31	107.3%	0.94	M	2.03 0.20
5 K	28.14		0.01	28.04		-0.19		1.15	DX	1.37 0.07
6 K	28.29		-0.14	27.95		-0.10		0.97	D	1.52 0.11
7 K	28.01		0.14	27.88		-0.03		1.13	Z	1.37 0.08
8 K	28.03		0.12	27.54		0.31		0.87	G	1.32 0.08
9 M	27.38		0.77	27.91		-0.06		1.82		
10 M	27.37		0.78	27.92		-0.07		1.85		
11 M	26.68		1.47	27.53		0.32		2.32		
12 M	27.44		0.71	28.21		-0.36		2.16		
13 M	27.61		0.54	28.48		-0.63		2.31		
14 M	27.68		0.47	28.25		-0.40		1.86		
15 M	26.96		1.19	27.52		0.33		1.88		
16 M	27.72		0.43	28.4		-0.55		2.02		
17 DX	28.42		-0.27	28.46		-0.61		1.26		
18 DX	28.24		-0.09	28.34		-0.49		1.32		
19 DX	28.37		-0.22	28.46		-0.61		1.31		
20 DX	28.04		0.11	28.13		-0.28		1.32		
21 DX	27.94		0.21	28.1		-0.25		1.39		
22 DX	27.54		0.61	27.77		0.08		1.47		
23 DX	27.99		0.16	28.18		-0.33		1.42		
24 DX	27.67		0.48	27.9		-0.05		1.46		
25 D	27.99		0.16	28.08		-0.23		1.32		
26 D	27.8		0.35	28.17		-0.32		1.61		
27 D	28.06		0.09	28.32		-0.47		1.49		
28 D	27.98		0.17	28.2		-0.35		1.45		
29 D	27.22		0.93	27.56		0.29		1.60		
30 D	27.63		0.52	27.84		0.01		1.45		
31 D	27.23		0.92	27.65		0.20		1.69		
32 D	27.79		0.36	28.12		-0.27		1.57		
33 Z	28.2		-0.05	28.43		-0.58		1.45		
34 Z	27.85		0.30	27.99		-0.14		1.37		
35 Z	28.32		-0.17	28.42		-0.57		1.32		
36 Z	27.44		0.71	27.52		0.33		1.32		
37 Z	28.24		-0.09	28.48		-0.63		1.46		
38 Z	28.18		-0.03	28.18		-0.33		1.23		
39 Z	27.41		0.74	27.58		0.27		1.41		
40 G	27.82		0.33	27.81		0.04		1.23		
41 G	28.39		-0.24	28.35		-0.50		1.19		
42 G	27.86		0.29	27.97		-0.12		1.34		
43 G	27.54		0.61	27.66		0.19		1.36		
44 G	27.74		0.41	27.94		-0.09		1.43		
45 G	27.56		0.59	27.73		0.12		1.41		

46 G		27.99	0.16		27.97	-0.12		1.22
47 G		27.91	0.24		28.02	-0.17		1.34



Replicate Group	NRI			β-actin			Efficiency	Relative Expression Ratio	mean valustandard deviation	
	Ct (dRn)	Ct <sub>NRI</sub> 正常	ΔCt <sub>NRI</sub>	Ct (dRn)	Ct <sub>β-actin</sub> 正常	ΔCt <sub>β-actin</sub>				
1 K	28.1	28.47	0.37	27.56	27.85	0.29	E <sub>β-actin</sub>	1.06		
2 K	28.73		-0.26	28.01		-0.16	103.5%	0.93		
3 K	28.21		0.26	27.67		0.18	E <sub>NRI</sub>	1.06	K	1.00 0.06
4 K	28.94		-0.47	28.16		-0.31	104.7%	0.89	M	2.19 0.17
5 K	28.64		-0.17	28.04		-0.19		1.02	DX	1.60 0.16
6 K	28.57		-0.10	27.95		-0.10		1.00	D	1.42 0.11
7 K	28.47		0.00	27.88		-0.03		1.02	Z	1.24 0.12
8 K	28.13		0.34	27.54		0.31		1.03	G	1.21 0.08
9 M	27.31		1.16	27.91		-0.06		2.40		
10 M	27.39		1.08	27.92		-0.07		2.28		
11 M	27.17		1.30	27.53		0.32		2.03		
12 M	27.79		0.68	28.21		-0.36		2.11		
13 M	28.03		0.44	28.48		-0.63		2.15		
14 M	27.9		0.57	28.25		-0.40		2.00		
15 M	26.87		1.60	27.52		0.33		2.49		
16 M	28.03		0.44	28.4		-0.55		2.03		
17 DX	28.55		-0.08	28.46		-0.61		1.46		
18 DX	28.46		0.01	28.34		-0.49		1.43		
19 DX	28.28		0.19	28.46		-0.61		1.77		
20 DX	28.25		0.22	28.13		-0.28		1.43		
21 DX	27.96		0.51	28.1		-0.25		1.72		
22 DX	27.57		0.90	27.77		0.08		1.80		
23 DX	28.06		0.41	28.18		-0.33		1.70		
24 DX	28		0.47	27.9		-0.05		1.45		
25 D	28.24		0.23	28.08		-0.23		1.39		
26 D	28.35		0.12	28.17		-0.32		1.37		
27 D	28.33		0.14	28.32		-0.47		1.55		
28 D	28.47		0.00	28.2		-0.35		1.28		
29 D	27.62		0.85	27.56		0.29		1.50		
30 D	27.86		0.61	27.84		0.01		1.54		
31 D	27.97		0.50	27.65		0.20		1.24		
32 D	28.19		0.28	28.12		-0.27		1.48		
33 Z	28.82		-0.35	28.43		-0.58		1.18		
34 Z	28.15		0.32	27.99		-0.14		1.39		
35 Z	28.6		-0.13	28.42		-0.57		1.37		
36 Z	28.03		0.44	27.52		0.33		1.09		
37 Z	28.87		-0.40	28.48		-0.63		1.18		
38 Z	28.63		-0.16	28.18		-0.33		1.13		
39 Z	27.8		0.67	27.58		0.27		1.34		
40 G	28.25		0.22	27.81		0.04		1.14		
41 G	28.83		-0.36	28.35		-0.50		1.10		
42 G	28.44		0.03	27.97		-0.12		1.11		
43 G	27.9		0.57	27.66		0.19		1.32		
44 G	28.27		0.20	27.94		-0.09		1.23		
45 G	28.04		0.43	27.73		0.12		1.25		

46 G		28.23	0.24		27.97	-0.12		1.30
47 G		28.38	0.09		28.02	-0.17		1.21