

ATP phosphoribosyltransferase		phosphoribosyl-ATP pyrophosphohydrolase / phosphoribosyl-AMP cyclohydrolase		phosphoribosylformimino- 5-aminoimidazole carboxamide ribotide isomerase	
UniProt	TXID	UniProt	TXID	UniProt	TXID
A1CDD6	5057	O82768	3702	P40545	4932
A1DCB4	331117	D7KGN4	81972	D6VVQ9	559292
A2R1F8	425011	B9N630	3694	C8ZAN0	643680
A2XC59	39946	A9PAQ7	3694	C7GPW8	574961
A3ADU6	39947	C6TGF5	3847	B5VKS1	545124
A3LQN3	4924	C5XH91	4558	B3LTM8	285006
A4RN67	148305	C5YRI4	4558	A6ZVP7	307796
A4RQW7	436017	B6TR63	4577	C5DHI6	559295
A5DB59	4929	B4FTI8	4577	C5DWL4	559307
A5E3B2	36914	Q5NBQ1	39947	Q6FPN5	5478
A6R7R9	339724	A2WNF2	39946	Q6CQL7	28985
A6RIQ7	332648	A9NSD7	3332	Q75AP1	33169
A6ZR07	307796	C1FFV9	296587	Q6C2U0	4952
A6ZXA7	307796	C1MQ66	564608	C4XY51	306902
A7EFF7	665079	A4RVN0	436017	Q595W2	4922
A7TGA4	436907	A9TNG9	145481	C4R7L1	644223
A8NRN1	240176	A8HTA8	3055	A5DQ45	4929
A8PXL8	425265	Q01BC3	70448	Q6BUV9	4959
A9RE17	145481	B1X3F5	39717	C5MDV0	294747
A9TKG9	145481			C4YGS6	5476
A9V418	81824			Q5A461	5476
B0CV00	486041			Q9HFV5	5476
B0YCF8	451804			Q0TVM2	13684
B1X5W0	39717			B9WGL6	573826
B2AYV5	5145			C7YQZ0	660122
B2CNY2	37727			A3GF99	4924
B2VZY6	426418			A5E4R0	36914
B3LS69	285006			A8NXH0	240176
B4FED7	4577			Q5KMJ6	5207
B5VHI8	545124			Q4WTU8	5085
B6K7N1	402676			B0Y3C5	451804
B6QDW1	441960			A4QTQ4	148305
B7FG77	3880			B2AVV1	5145
B7FKJ6	3880			A1C9V9	5057
B7FST0	556484			A1CZF2	331117
B8C4E1	35128			B0DEY9	486041
B8LKY9	3332			A7F4D3	665079
B8MAE4	441959			Q0CA71	341663
B8MW29	332952			C1G297	502780
B9IQ50	3694			Q7RXQ8	5141
B9N0B8	3694			B6K0F2	402676
B9TB20	3988			Q2HA31	38033

B9WI74	573826	Q10184	4896
C0NWV6	447093	A2R9J4	425011
C0PKL2	4577	C0SG53	482561
C0SJH4	482561	D1ZBG9	5147
C1E526	296587	C5P783	222929
C1FD92	296587	B8MBV5	441959
C1GN18	502780	B2VV69	426418
C1HE96	502779	B6QGA6	441960
C1MKU1	564608	B6H0P4	500485
C1N2F4	564608	D5GEF5	39416
C4JZZ0	336963	C1GPG6	502779
C4QXU6	644223	C5FVZ9	554155
C4Y1R3	306902	A6RU76	332648
C4YS40	5476	A9UW68	81824
C5DBN7	559295	C5JMG9	559298
C5DWQ6	559307	C5GAK6	559297
C5FYG9	554155	C0NQY6	447093
C5GR28	559297	Q2UTQ1	5062
C5K2L1	559298	D4DCL9	663202
C5MJ95	294747	D4AII3	663331
C5PBG2	222929	A6RFY4	339724
C6HBE9	544712	C6HPY0	544712
C6TAE9	3847	D0NQR0	403677
C7GX46	574961	B8CDV9	35128
C7YJX1	660122	D7LIP8	81972
C8V7A0	227321	Q5TKS8	3702
C8Z760	643680	O82782	3702
C9SJI6	526221	C0Z2T9	3702
D0NCB8	403677	B9FPI1	39947
D1ZGP9	5147	B7GE60	556484
D3DLV8	559292	A8JDM6	3055
D4B1U9	663331	B7FHU9	3880
D4D7Y3	663202	C1MIV3	564608
D5GKQ7	39416	C1MIV2	564608
D7KJU4	81972	C6TJR8	3847
D7KY77	81972	B6TRF8	4577
D7KY80	81972	C4IYN8	4577
O46887	60913	B4FIP2	4577
P00498	4932	C0PFD1	4577
P40373	4896	B6UEA7	4577
P46586	5476	C5WWI2	4558
Q01GN6	70448	C5YXM8	4558
Q0CPP7	341663	D7G369	2880
Q0UWH6	13684	A4RZJ6	436017
Q10S55	39947	B8AY22	39946
Q2HG71	38033	Q015Z9	70448

Q2UT69	5062	C9SVG4	526221
Q4P1J6	5270	C1E011	296587
Q4WGB9	5085	Q5BAY7	162425
Q56US4	226036	C8VN40	227321
Q56US5	226036	A8Q0I1	425265
Q56UT2	226033	B9SRY4	3988
Q56UT3	226033	A5ASH5	29760
Q595W5	4922	A9STZ1	145481
Q5B6T2	162425	C4JNC3	336963
Q5F0I1	42374	C7J278	39947
Q5KIW5	5207		
Q6BRU4	4959		
Q6CID6	28985		
Q6FLT7	5478		
Q75AK8	33169		
Q7SDF1	5141		
Q8GSJ1	3702		
Q8H8D3	39947		
Q8L9K8	3702		
Q99145	4952		
Q9S762	3702		
Q9SLW4	3702		

**glutamine
amidotransferase**

UniProt	TXID
P33734	4932
D6VQP4	559292
D3UEZ5	643680
B3LMR4	285006
C7GMY3	574961
A6ZLI7	307796
C5E1L7	559307
Q6FX00	5478
C5E2I9	559295
Q6CL11	28985
Q754W3	33169
C4R8P0	644223
Q0CL18	341663
Q2UMI6	5062
A7EIH3	665079
Q6CCR8	4952
A6SEB1	332648
Q870Y9	5141
Q0TX23	13684
D1ZSZ1	5147
A1DG44	331117

**imidazoleglycerol-
phosphate dehydratase**

UniProt	TXID
A0JJW7	100272
A0JJW8	100272
A1CM65	5057
A1DLV8	331117
A2R4J2	425011
A4S3Y5	436017
A5DCL8	4929
A5DUG7	36914
A6P4B5	135859
A6P4B6	5599
A6R119	339724
A6RJP8	332648
A6ZP46	307796
A7E563	665079
A7TQC3	436907
A8I4F6	3055
A8MQQ8	3702
A8NGC3	240176
A8Q9P0	425265
A9P0A9	3332
B0D3S7	486041

**histidinol-phosphate
aminotransferase**

UniProt	TXID
A1CP53	5057
A1D207	331117
A2QAL3	425011
A3LSV4	4924
A4R5D4	148305
A4RSZ6	436017
A5DDL3	4929
A5E3V6	36914
A6R8T8	339724
A6RQF2	332648
A6ZVG1	307796
A7E9J3	665079
A7THE9	436907
A8J3D3	3055
A8MRI5	3702
A8P5U9	240176
A8PCL5	240176
A8Q8A0	425265
A9NX10	3332
A9T6Y6	145481
A9VDN0	81824

C7YRY8	660122	B0YCY2	451804	B0DTT8	486041
C1GP40	502779	B1X4R8	39717	B0XMN9	451804
C0SFE2	482561	B2VVA2	426418	B1X4B7	39717
A1C5W0	5057	B4F8F3	4577	B2AS75	5145
Q4WH91	5085	B4FI45	4577	B2VYI8	426418
B0XW23	451804	B5VS85	545124	B3LTW3	285006
B6HK56	500485	B6HGA3	500485	B4FAW7	4577
B5VEJ8	545124	B6JW23	402676	B5VKJ3	545124
Q9P4P9	162425	B6QVE9	441960	B6HAF7	500485
C8VBA3	227321	B6TC53	4577	B6K373	402676
C1GL59	502780	B8AUF4	39946	B6QBB4	441960
B6Q367	441960	B8MS43	441959	B6TRS1	4577
C5FFA9	554155	B8ND57	332952	B7G747	556484
C0NQK4	447093	B9P9G9	3694	B8AHA9	39946
Q2GYU2	38033	B9RTS0	3988	B8BPZ8	296543
B2AC63	5145	B9WBE6	573826	B8M3C4	441959
A6QXC8	339724	C0NQI6	447093	B8N6W4	332952
A2QFK7	425011	C0PA62	4577	B8P2C7	561896
C6HQA9	544712	C0SGZ0	482561	B9DHD3	3702
C5K3V3	559298	C1GG64	502780	B9SB59	3988
C5GYK0	559297	C1GXF3	502779	B9WFD8	573826
B8LT94	441959	C4JNN5	336963	C0NL35	447093
D5GBP0	39416	C4R5K6	644223	C0S401	482561
O94303	4896	C4XVR0	306902	C1FED0	296587
A4RFT8	148305	C5DET9	559295	C1FYG5	502780
C5P669	222929	C5FW12	554155	C1GUI5	502779
D4B2A2	663331	C5GCN7	559297	C1ML32	564608
D4D7G4	663202	C5JW68	559298	C3SA65	15368
B6K508	402676	C5M6Z5	294747	C4JYD9	336963
C4JT92	336963	C5P226	222929	C4R1F7	644223
A5DAA2	4929	C5YG33	4558	C4XWD3	306902
A3LSB3	4924	C6HSB7	544712	C4YI23	5476
Q6BZ52	4959	C6T988	3847	C5DMK2	559295
C4XX45	306902	C6YXH4	39947	C5DPA3	559307
A5E679	36914	C6YXL2	39947	C5FC63	554155
Q00ZE6	70448	C7GWH9	574961	C5G7N6	559297
B9WJS1	573826	C7YUB2	660122	C5JKH7	559298
A4S499	436017	C8V0L8	227321	C5M214	294747
A9UYA3	81824	C8ZGV8	643680	C5PAB2	222929
C1FJN8	296587	C9S945	526221	C5Y092	4558
C4YT06	5476	D0NH24	403677	C6TN17	3847
Q9HFV7	5476	D0P2W5	403677	C7Z4V1	660122
C1N0H6	564608	D1ZHS3	5147	C8VRC2	227321
B2VVH1	426418	D4AIG9	663331	C8ZAC8	643680
D0N3W2	403677	D4DCK2	663202	C9S832	526221
A9S2M5	145481	D4NXF8	318829	D0MY30	403677

Q10NW0	39947	D5GDC8	39416	D1ZCJ6	5147
B9F6U6	39947	D6W2Q9	559292	D4AV67	663331
B8AKB1	39946	D7FNK5	2880	D4D1H8	663202
A8N1B5	240176	D7MBA2	81972	D5GI57	39416
Q9SZ30	3702	O23346	3702	D6VVH1	559292
Q8GX14	3702	O42621	148305	D7FPJ8	2880
D7MEL3	81972	O94126	4903	D7KZ00	81972
C4J411	4577	O94153	5421	O82030	4097
C5WQU1	4558	P06633	4932	P07172	4932
B9SVA2	3988	P28624	4792	P36605	4896
B9GFE9	3694	P34041	5544	P56099	5479
B9HNP1	3694	P34047	3702	Q0D0C3	341663
B0CPN4	486041	P40374	4896	Q0DY86	39947
Q4P7Q5	5270	P40919	5207	Q0UQ19	13684
B8LDL7	296543	P56090	5476	Q27GM5	3702
B7FVQ7	556484	Q02986	4934	Q2H2S0	38033
Q5KNA0	5207	Q0CH64	341663	Q2UCT8	5062
A7SPR8	45351	Q0UFU5	13684	Q4P634	5270
A8PRW0	425265	Q12578	5478	Q4WS41	5085
C9S5S7	526221	Q25AR2	4530	Q595W3	4922
B8NPG7	332952	Q2HAY0	38033	Q59SJ5	5476
A2XM35	39946	Q2U9D6	5062	Q5BFG3	162425
C0HF10	4577	Q43072	3888	Q5KM46	5207
P48262	2762	Q4PFJ4	5270	Q6BMG0	4959
Q7Y020	39947	Q4WDG8	5085	Q6C7F4	4952
		Q58FL5	5061	Q6CLF0	28985
		Q59LL5	5476	Q6FX16	5478
		Q5AYU4	162425	Q6MY81	5085
		Q67YN9	3702	Q6YV10	39947
		Q67YZ9	3702	Q75B26	33169
		Q682C0	3702	Q7S9U6	5141
		Q6BTY3	4959	Q8S3S8	39947
		Q6C3L0	4952	Q949X3	3702
		Q6CLR6	28985	Q9FEW2	4092
		Q6JV40	4911		
		Q6XD66	4950		
		Q75B47	33169		
		Q7LV87	5478		
		Q7XTN6	39947		
		Q92447	4922		
		Q96UK2	4954		
		Q9C1D4	4924		
		Q9C1R3	162425		
		Q9HEG3	5141		
		Q9UVE1	559307		

histidinol-phosphatase		histidinol dehydrogenase		threonine dehydratase	
UniProt	TXID	UniProt	TXID	UniProt	TXID
P38635	4932	P00815	4932	A0BE77	5888
D6VTQ5	559292	D6VQY5	559292	A0CM66	5888
B3LUN4	285006	C7GSY7	574961	A0D3F4	5888
C8Z7W0	643680	B5VES8	545124	A0D573	5888
B5VI52	545124	B3LU52	285006	A0DHM0	5888
C7GYD0	574961	A6ZTG0	307796	A0E6U7	5888
A7A262	307796	Q12670	4931	A0FKE6	4081
C5E1R2	559307	Q6FX86	5478	A1CH94	5057
A7TDX0	436907	C5DZ21	559307	A1CHC6	5057
Q6FQ56	5478	B2G433	4956	A1CLE7	5057
C5E3F8	559295	O13471	28985	A1CR51	5057
Q757N4	33169	C5DK34	559295	A1CXG1	331117
Q6CXG5	28985	A7TFF6	436907	A1CXJ1	331117
B5RTB4	4959	Q751X2	33169	A1D414	331117
A3LY67	4924	A1BPP9	27317	A1D5X3	331117
C5MGD3	294747	C4QXL7	644223	A2FA06	5722
B9WKJ5	573826	P45353	4922	A2FH13	5722
C4YSZ9	5476	Q12201	4922	A2FRC0	5722
Q59R21	5476	C5M233	294747	A2QI44	425011
A5DQT0	4929	B9WF89	573826	A2QI80	425011
C4Y0D4	306902	O74712	5476	A2QU10	425011
A5E6D7	36914	Q59UT2	5476	A2XWA9	39946
Q6C6Z5	4952	C4YI61	5476	A3LW23	4924
B0D579	486041	A5E3Y9	36914	A4H4N7	5660
B0DA81	486041	A3LSS5	4924	A4HSW5	5671
B6JV46	402676	Q6CGV2	4952	A4QUE4	148305
D5GJN0	39416	A5DE04	4929	A4RI26	148305
A8NZG4	240176	Q6BM15	4959	A4S5M8	436017
Q2PIQ9	5062	C4Y9Q9	306902	A5B3Z7	29760
Q2TW36	5062	C5JU56	559298	A5DG69	4929
B8NYT7	332952	C5GK98	559297	A5DWY6	36914
B8NX22	332952	C5PAF1	222929	A5HUN0	4513
B8PEW0	561896	C5FCK3	554155	A6RBB5	339724
Q0CVP7	341663	D4AV25	663331	A6RGX2	339724
A8Q7S5	425265	A1DRJ2	13684	A6RUK3	332648
A9UY93	81824	A2IBN3	13684	A6SSX5	332648
Q595W4	4922	Q2PPB3	13684	A6ZR41	307796
C4QX01	644223	Q0UA12	13684	A6ZTD3	307796
A2R2I3	425011	A1DRK4	13684	A7A071	307796
O14059	4896	D1ZH00	5147	A7EEW4	665079
Q4W9R1	5085	B2W4V9	426418	A7F680	665079
B0YEF3	451804	P07685	5141	A7RTQ7	45351
Q0U6E0	13684	A1DRK5	54790	A7TFC2	436907
A1D9M3	331117	A1DRK6	54790	A7TKZ0	436907

A7ETF6	665079	A6QYA0	339724	A8BFR5	184922
A6RSI8	332648	B8M2Z5	441959	A8I9R1	3055
B6H3B9	500485	C0NEX3	447093	A8J977	3055
B6QGE8	441960	A6RN57	332648	A8N6Z1	240176
B2W097	426418	C1H3R3	502779	A8PY36	425265
C4JH85	336963	A1DRK7	289418	A8WNC1	6238
A1C968	5057	C1GHM0	502780	A9NZE1	3332
C9SUM3	526221	A1DRJ7	215456	A9PI64	3694
C5P3X8	222929	A1DRJ8	215456	A9T7L7	145481
Q5AXD6	162425	A7F2X1	665079	A9TYA8	145481
C8VB59	227321	C0SE67	482561	B0D0M2	486041
Q5KJZ9	5207	B2AYL5	5145	B0E7X3	370354
Q55W98	5207	C7YID0	660122	B0EJK9	370354
C7YYF4	660122	B6QAZ4	441960	B0EK81	370354
A4QWC7	148305	A4RL35	148305	B0WUZ1	7176
C0SJ61	482561	A1D1W0	331117	B0XPH8	451804
C1GMX2	502780	A1CP07	5057	B0XZX9	451804
B2ASC1	5145	A8NXP9	240176	B0Y5X4	451804
Q4P8I0	5270	Q4WRZ4	5085	B0Y607	451804
C1HCC3	502779	B0XMT5	451804	B1N2N4	5759
C5JX61	559298	A2QAS4	425011	B1X3V5	39717
C5GRN2	559297	C4JY90	336963	B2WAH4	426418
C0NVK0	447093	Q0D075	341663	B2WP86	426418
C5FG56	554155	B6H9W1	500485	B3LQP1	285006
D1ZBW9	5147	Q5BF83	162425	B3LRK3	285006
C6HH95	544712	C8VQH9	227321	B3LU22	285006
Q7SAH5	5141	Q2ULB1	5062	B3M069	7217
D4D1N0	663202	B8N416	332952	B3P1R0	7220
D4B512	663331	B0CYG3	486041	B4FIW6	4577
B3RWH6	10228	Q7ZA54	76867	B4GP49	7234
A6REF8	339724	C6HNT6	544712	B4HKF1	7238
		A8Q4R2	425265	B4JI58	7222
		Q4P7D9	5270	B4K4Y7	7230
		Q5KHK8	5207	B4LW10	7244
		Q2HFX2	38033	B4NAJ0	7260
		D5GLU8	39416	B4PUM3	7245
		Q9P777	4896	B4QWN7	7240
		B6JZU7	402676	B5VHL2	545124
		C9SQK1	526221	B5VLU7	545124
		A4RS01	436017	B6GW79	500485
		A9RLK5	145481	B6H312	500485
		A9THQ4	145481	B6H3S9	500485
		C1N4U9	564608	B6H461	500485
		C1EJ66	296587	B6H8Y6	500485
		P24226	3716	B6JWQ1	402676
		Q9C5U8	3702	B6QHL6	441960

D7MQI7	81972	B6QVU8	441960
B9GH07	3694	B7FKK4	3880
B9N5Q4	3694	B7FV67	556484
B7FNC7	3880	B7G9B5	556484
B9SBW3	3988	B8C651	35128
A8IA89	3055	B8CA45	35128
Q5NAY4	39947	B8LQZ5	3332
Q0JPA8	39947	B8LR80	3332
A2WMG4	39946	B8M831	441959
B8A2L1	4577	B8MJJ4	441959
C0HDR0	4577	B8MTE8	441959
B6TZ66	4577	B8N9L9	332952
A9NV24	3332	B8N9Q5	332952
A9VA77	81824	B8NEE4	332952
A1D0Y3	331117	B8NST7	332952
A2R4B4	425011	B8NXW6	332952
B8MW43	332952	B8P126	561896
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A1DGW8	331117
A2DZ77	5722
A2E498	5722
A2Q939	425011
A2QD81	425011
A2QHM8	425011
A2QTG2	425011
A2QV14	425011
A2WML4	39946
A2XBJ1	39946
A2XE78	39946
A2Y2A9	39946
A2ZA03	39946
A3AD92	39947

2-isopropylmalate synthase

UniProt	TXID
A1CHY9	5057
A1CNV7	5057
A1CWS1	331117
A1D1R7	331117
A2QAX8	425011
A2QJ88	425011
A3GFB4	4924
A3GGR1	4924
A3LU20	4924
A3LUA5	4924
A4QR67	148305
A4RD53	148305
A4RRV6	436017
A5DCX1	4929
A5DDX9	4929
A5DEU6	4929
A5DK19	4929
A5DUL2	36914
A5DVS2	36914
A5DWR8	36914
A5DYI7	36914
A6QYH1	339724
A6RAW0	339724
A6S6B4	332648
A6SEV6	332648
A6ZNV6	307796
A6ZRX6	307796
A6ZXE9	307796

3-isopropylmalate dehydrogenase

UniProt	TXID
A1CNN3	5057
A1CUK0	5057
A1D1I2	331117
A1DP80	331117
A2QB74	425011
A2QKC6	425011
A2XK82	39946
A3AL03	39947
A4QSZ8	148305
A4QUQ9	148305
A4SBH9	436017
A4Z4U6	4911
A5DLX7	4929
A5E7H0	36914
A6QY03	339724
A6RDC6	339724
A6SPE0	332648
A6ZTG8	307796
A7EP53	665079
A7TGM5	436907
A8DWH8	45351
A8I7N4	3055
A8I7N8	3055
A8NYJ8	240176
A8PVM0	425265
A9RIX2	145481
A9YTV4	119927
B0CXS4	486041

A3C731	39947	A6ZXJ7	307796	B0XM71	451804
A3LNY1	4924	A7F9C4	665079	B0XN19	451804
A3LVU4	4924	A7F9M5	665079	B2AWZ1	5145
A4HFX0	5660	A7TF22	436907	B2WKF7	426418
A4I2W8	5671	A7TNA0	436907	B2ZBW4	27301
A4IFQ7	9913	A8NEF9	240176	B5LAV1	4072
A4R037	148305	A8NU10	240176	B5VET6	545124
A4R2M4	148305	A8PWG4	425265	B6HAM6	500485
A4RDL3	148305	A8QCA5	425265	B6HPJ8	500485
A4RWN3	436017	A9S4K9	145481	B6K4K0	402676
A4S1G0	436017	A9T9B8	145481	B6QBS6	441960
A4SB33	436017	B0D9Z2	486041	B6THR9	4577
A5DGQ7	4929	B0XN47	451804	B6TVD6	4577
A5DUJ5	36914	B0Y6N3	451804	B7FHQ0	3880
A5DY11	36914	B1X5H2	39717	B7G1X8	556484
A6R0Z5	339724	B2AQI3	5145	B8C2I2	35128
A6RH28	339724	B2AUM7	5145	B8M1Y5	441959
A6RI10	332648	B2D157	3712	B8M3W0	441959
A6S587	332648	B2WGW9	426418	B8MZ75	332952
A6SCW1	332648	B2WKN1	426418	B8NXT4	332952
A6SP39	332648	B3LH22	285006	B8PNS1	561896
A6ZQA4	307796	B3LH66	285006	B9GG50	3694
A6ZTB5	307796	B3LJF1	285006	B9SWT3	3988
A7ENI6	665079	B3LNW3	285006	B9WJH1	573826
A7EYY1	665079	B5KJ60	51350	C0NEM8	447093
A7F5D9	665079	B5KJ62	51351	C0NYY5	447093
A7SLW1	45351	B5LAV3	4072	C0PD04	4577
A7TPV1	436907	B5VF91	545124	C0SED7	482561
A7TT81	436907	B5VRZ8	545124	C1EFQ3	296587
A8BLB2	184922	B6HIA0	500485	C1GHD5	502780
A8HT91	3055	B6K1B6	402676	C1H3I5	502779
A8I0S9	3055	B6K7H6	402676	C1L3C2	5127
A8I7X6	3055	B6QAU4	441960	C1MWL6	564608
A8N0V2	240176	B6QAU5	441960	C4JGP0	336963
A8PXF5	6279	B6QPX9	441960	C4JIA5	336963
A8PZH7	425265	B6SH97	4577	C4R3D0	644223
A8WM75	6238	B6SWM0	4577	C4YB62	306902
A8X039	6238	B6SWN1	4577	C4YTB1	5476
A9JS68	8355	B7FFB9	3880	C5E3C4	559295
A9NN10	3332	B7FLQ1	3880	C5FBH4	554155
A9RS79	145481	B7FUP6	556484	C5GME9	559297
A9SPS3	145481	B7G5N8	556484	C5GYE1	559297
A9SY36	145481	B8A2E9	4577	C5JY74	559298
A9SZC8	145481	B8BJ19	39946	C5K2Z8	559298
A9T3K1	145481	B8BLZ1	39946	C5MFT1	294747
A9U6P0	145481	B8BRI7	296543	C5P3K3	222929

A9UZ24	81824	B8C732	35128	C5P893	222929
B0CPH7	486041	B8LWR9	441959	C5YB10	4558
B0E9E9	370354	B8M2U2	441959	C6H5A5	544712
B0X8N7	7176	B8MZH6	332952	C6HNJ4	544712
B0XR4D	451804	B8N0W8	332952	C6TGV1	3847
B0XS77	451804	B8NK98	332952	C6TKN3	3847
B0Y5G1	451804	B8PD45	561896	C7GQK2	574961
B1X3T0	39717	B9SX30	3988	C7ZET2	660122
B2AAZ8	5145	B9W6H7	573826	C7ZPF5	660122
B2AR54	5145	B9W7P6	573826	C8VJK4	227321
B2B756	5145	B9WBB7	573826	C8VUR0	227321
B2DBI4	66420	B9WCP0	573826	C8Z469	643680
B2KFA0	10090	C0NF36	447093	C9K7B7	5599
B2KFA1	10090	C0NMX2	447093	C9SV85	526221
B2KFA2	10090	C0P8I4	4577	C9SYQ0	526221
B2VTC9	426418	C0S541	482561	D0N196	403677
B2VZK6	426418	C0SDV3	482561	D0V7M9	199306
B2W177	426418	C1FID7	296587	D1ZPB1	5147
B2WPB1	426418	C1G3U9	502780	D4B107	663331
B3H658	3702	C1GHU8	502780	D4DIX5	663202
B3KSI3	9606	C1H3Y8	502779	D5GE49	39416
B3KY27	9606	C1H8B2	502779	D6VQZ6	559292
B3LQM7	285006	C1N4J5	564608	D7KM07	81972
B3LSW9	285006	C4J3S6	4577	D7KX44	81972
B3MXN6	7217	C4JRR1	336963	D7KX45	81972
B3NWN8	7220	C4JY82	336963	D7M613	81972
B3SBH7	10228	C4QWR7	644223	O14429	5478
B4F9X9	4577	C4QYE7	644223	O59930	5306
B4FA16	4577	C4R0L2	644223	O60027	33169
B4FB06	4577	C4XX33	306902	O94114	4924
B4FD32	4577	C4XZ37	306902	P04173	4932
B4FQ91	4577	C4Y5K7	306902	P07139	5479
B4H2W7	7234	C4YAG2	306902	P08791	4903
B4IGS4	7238	C4YFW0	5476	P18120	4952
B4JLQ2	7222	C4YKP2	5476	P18869	4896
B4L1S1	7230	C5DGX9	559295	P23390	28985
B4MEI3	7244	C5DII8	559295	P29102	3708
B4NEH1	7260	C5DP09	559307	P34733	4905
B4NVP8	7240	C5DRM6	559307	P34738	5141
B4Q2B4	7245	C5DT42	559307	P41766	4911
B5VLT5	545124	C5DTL1	559307	P41926	34356
B5X837	8030	C5E265	559295	P87186	5476
B6GY28	500485	C5FUR8	554155	P87256	5061
B6HJE5	500485	C5FUW4	554155	P87257	5061
B6HR72	500485	C5GFR2	559297	P93832	3702
B6HRY8	500485	C5GKV1	559297	Q00VM0	70448

B6HU88	500485	C5H9M9	51351	Q01987	5477
B6K620	402676	C5J4N7	3707	Q0CM68	341663
B6KTN2	508771	C5J4N9	3707	Q0CSC7	341663
B6Q223	441960	C5J4P1	3707	Q0DPW7	39947
B6QES1	441960	C5JII3	559298	Q12545	5044
B6QEX8	441960	C5K0P5	559298	Q12590	5479
B6QEX9	441960	C5M530	294747	Q12591	5479
B6QUE3	441960	C5M6W3	294747	Q12592	5479
B6RFK8	4100	C5MDZ9	294747	Q2HAA2	38033
B6STR2	4577	C5MF43	294747	Q2TYA5	5062
B6THP1	4577	C5PAF9	222929	Q2UQS4	5062
B7FJP0	3880	C5PCV6	222929	Q2V379	3702
B7FT57	556484	C5Y4G6	4558	Q2V380	3702
B7FTZ3	556484	C5YQI8	4558	Q4PF68	5270
B7P5K8	6945	C6H2L0	544712	Q4WLG7	5085
B7Z2M5	9606	C6HP01	544712	Q4WRM6	5085
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B8AFD4	39946	C7YJ23	660122	Q5B9I7	162425
B8ASX0	39946	C7YV47	660122	Q5BEW8	162425
B8AWI0	39946	C8VL66	227321	Q5F0I0	5479
B8AZW6	39946	C8VQ30	227321	Q5KP37	5207
B8BY53	35128	C8Z6C2	643680	Q5XF32	3702
B8LQL0	3332	C8Z6H2	643680	Q6B458	4959
B8LUG0	441959	C8ZGC6	643680	Q6PY58	51915
B8LZT6	441959	C8ZI69	643680	Q6TWC4	5147
B8MBA9	441959	C9SFE9	526221	Q7Y096	39947
B8MBB0	441959	C9SML8	526221	Q877A9	5062
B8MIC4	441959	C9SR17	526221	Q8GXH6	3702
B8MQ34	441959	D0MYD7	403677	Q8LB97	3702
B8MYP9	332952	D0VY45	34305	Q8LEF4	3702
B8N7W4	332952	D1ZKQ0	5147	Q8NKB8	37620
B8NA84	332952	D2UXY9	5762	Q96WI0	559307
B8NB44	332952	D4B0A2	663331	Q96WT9	34358
B8NC67	332952	D4D4U1	663202	Q9FMT1	3702
B9DHH5	3702	D4DIY3	663202	Q9HDQ1	4927
B9EUL1	39947	D5GJ82	39416	Q9HDQ5	5481
B9F6M2	39947	D5GJS6	39416	Q9P3Y0	4954
B9FBX6	39947	D5KUG5	4932	Q9P8C1	13684
B9FNG3	39947	D6VRH0	559292	Q9SA14	3702
B9FNG4	39947	D6VRL8	559292	Q9Y897	54734
B9GNK4	3694	D6W175	559292		
B9HFT9	3694	D6W2G7	559292		
B9HN46	3694	D7KGE8	81972		
B9HZQ8	3694	D7KRQ1	81972		
B9IKL7	3694	D7MIL9	81972		
B9Q185	5811	O04973	28526		

B9QHR5	432359	O04974	28526
B9R6T8	3988	O59736	4896
B9R6T9	3988	O94225	500485
B9R6U0	3988	P06208	4932
B9RS41	3988	P48570	4932
B9S7U2	3988	Q01FR2	70448
B9SBB9	3988	Q0CZH8	341663
B9SX80	3988	Q0CZN6	341663
B9TIE0	3988	Q0IUQ0	39947
B9WB98	573826	Q0UH08	13684
B9WEE3	573826	Q0V1B4	13684
C0HAX7	8030	Q12122	4932
C0HF14	4577	Q12166	4932
C0LAM2	5341	Q12726	4952
C0NIH3	447093	Q1JRZ0	81972
C0NQG3	447093	Q1JRZ1	81972
C0P6R1	4577	Q1JRZ2	81972
C0P886	4577	Q1JRZ3	115915
C0PA18	4577	Q1JRZ4	115915
C0PTG0	3332	Q1JRZ5	115915
C0S9L5	482561	Q1JRZ6	97979
C0SFX8	482561	Q1JRZ7	97979
C1EDP6	296587	Q1JRZ8	97979
C1GC48	502780	Q1JRZ9	59691
C1GL38	502780	Q1JS00	59691
C1H0V7	502779	Q1JS01	59691
C1H5W2	502779	Q2H478	38033
C1MRQ3	564608	Q2QXY9	39947
C1MXY2	564608	Q2RAP8	39947
C3Z1L6	7739	Q2U786	5062
C4JP84	336963	Q2UJL3	5062
C4JT41	336963	Q2UQI7	5062
C4JUC0	336963	Q30DX9	69183
C4LSR8	5759	Q39891	3847
C4R7A4	644223	Q4P6V7	5270
C4XWX3	306902	Q4P6Z8	5270
C4YIA7	5476	Q4WPU2	5085
C5DFQ6	559295	Q4WRV1	5085
C5E1Q1	559307	Q59TC4	5476
C5FF64	554155	Q59VG1	5476
C5FWI3	554155	Q59YF1	5476
C5G0G2	554155	Q5AB86	5476
C5G9D5	559297	Q5BBU0	162425
C5GC46	559297	Q5BF40	162425
C5H9M5	51351	Q5FAL5	3712
C5H9M6	51351	Q5KCL7	5207

C5JN83	559298	Q5KIZ5	5207
C5JPW9	559298	Q60D83	3712
C5KPI8	423536	Q60D84	3712
C5LAN6	423536	Q6B1Y9	4932
C5LE91	423536	Q6BM39	4959
C5LSR3	423536	Q6BRX1	4959
C5M6U4	294747	Q6BW96	4959
C5MJG1	294747	Q6BY18	4959
C5NZB0	222929	Q6CFF6	4952
C5P8J6	222929	Q6CIW1	28985
C5XJI9	4558	Q6CL60	28985
C5YDX1	4558	Q6CM17	28985
C5YVA1	4558	Q6CQU3	28985
C6H7T8	544712	Q6FNT3	5478
C6HS95	544712	Q6FP59	5478
C6M0D6	598745	Q6FSZ1	5478
C6T8V8	3847	Q6FT78	5478
C6TLT9	3847	Q71QG1	3712
C7GN93	574961	Q755P2	33169
C7GPU1	574961	Q75A20	33169
C7YVH8	660122	Q75AD2	33169
C7Z035	660122	Q7RVT2	5141
C7Z586	660122	Q7SFM2	5141
C7Z616	660122	Q8VX04	3702
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C8V3Y1	227321	Q9FG67	3702
C8V3Y3	227321	Q9FN52	3702
C8V969	227321	Q9LPR4	3702
C8VTP8	227321	Q9Y823	4896
C8ZA09	643680		
C8ZBU8	643680		
C9STB5	526221		
C9ZJG3	679716		
C9ZJG4	679716		
D0NRA1	403677		
D1Z3T0	5147		
D2VAR7	5762		
D3BSA4	670386		
D3DLF7	559292		
D4B2E4	663331		
D4B2S3	663331		
D4DG90	663202		
D5GAR6	39416		
D5GAR7	39416		
D5GD45	39416		
D5GN05	39416		

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D7Kfv4	81972
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D7MUM0	81972
O14370	4896
O15382	9606
O35854	10116
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O88374	10090
P24288	10090
P38891	4932
P47176	4932
P54687	9606
P54688	6239
P54690	10116
Q013H3	70448
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Q0CHM6	341663
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Q0UN77	13684
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Q0WW83	3702
Q10PK7	39947
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Q10PL0	39947
Q170J5	7159
Q29IR8	46245
Q2GSR0	38033
Q2HEX6	38033

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Q2U1F9	5062
Q2UG50	5062
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Q4PAT0	5270
Q4PIE8	5270
Q4WKQ2	5085
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Q5BGE5	162425
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Q640F5	8355
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Q6DG83	7955
Q6DIN6	8364
Q6FK92	5478
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Q6PC10	7955
Q70KX9	4513
Q75BE8	33169
Q7QEI9	7165
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Q7SFT9	5141
Q7XPR5	39947
Q86QZ8	5741
Q8CAX1	10090
Q8CBC8	10090
Q8GRH8	39947
Q8H7T7	39947
Q8L493	3702
Q94CF8	4072
Q94LV4	39947
Q99JD5	10116
Q9CXX6	10090
Q9FYA6	3702
Q9GKM4	9940
Q9HEB7	5141
Q9LE06	3702
Q9LPM8	3702
Q9LPM9	3702
Q9M401	3702
Q9M439	3702
Q9SNY8	4113
Q9SNY9	4113
Q9VYD5	7227
Q9XXD8	6239

3-isopropylmalate dehydratase		3-isopropylmalate dehydratase/(R)-2-methylmalate dehydratase large subunit		3-isopropylmalate dehydratase/(R)-2-methylmalate dehydratase small subunit	
UniProt	TXID	UniProt	TXID	UniProt	TXID
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A6ZUY4	307796	B9HSU8	3694	B5LAV2	4072
C8Z8N4	643680	B9HKV5	3694	A9PJA7	3695
C7GK64	574961	Q6Z702	39947	A5B9M3	29760
Q6FXV1	5478	B8AGY8	39946	A9NMS1	3332
A7TKW5	436907	C5XT62	4558	C0PQ56	3332
C5DHW7	559295	C4JBG7	4577	B6SZA5	4577
Q6CXX1	28985	C4IZQ5	4577	B6UGK8	4577

C4R0G5	644223	B6TYJ6	4577	A8HYG8	3055
C5E063	559307	B6U6T6	4577	D5LB14	3055
B9WKN6	573826	B4FG11	4577	Q4PLC1	33097
Q6BUD7	4959	A9TGU1	145481	C5XRZ8	4558
Q74ZM9	33169	B8LQY6	3332	Q949D1	4530
C4Y AQ8	306902	B8LQ24	3332	Q6URQ0	39947
Q5AAJ1	5476	A8JG03	3055	Q6H6I1	39947
C4YND7	5476	Q6B920	285951	A2X7X9	39946
C5M4Q5	294747	D7G5W8	2880	A1C6H0	5057
A5DCZ2	4929	A1C6H0	5057	A1DH42	331117
A3GH13	4924	A1DH42	331117	A2QCE1	425011
Q00464	5479	A2QCE1	425011	A3GH13	4924
Q6CG29	4952	A3GH13	4924	A4RKB1	148305
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B6H6J7	500485	B0CYV1	486041	B2WMF3	426418
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D5GE77	39416	C4JG58	336963	C5E063	559307

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B5LAV2	4072
B6UGK8	4577
C0PQ56	3332
D5LB14	3055
D7LJX7	81972
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Q4PLC1	33097
Q6B919	285951
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homocitrate synthase		homoaconitate hydratase		homoisocitrate dehydrogenase	
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**saccharopine
dehydrogenase**

**saccharopine
dehydrogenase**

LysW

(NADP+, L-glutamate forming)

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(NAD+, L-lysine forming)

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C7YTT0	660122	A9GJL6	391619
C9SG84	526221	B5K5L8	391616
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D5GD57	39416	A3K517	388399
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Q6B170	4932	C9ZBN4	680198
Q6BL02	4959	A8M4N3	391037
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		D5WN65	640511
		C0BMF0	487797
		A4CM31	313596
		C3YJJ0	7739
		C3ZFX2	7739
		Q9UDR5	9606
		Q9VLX0	7227
		A2VCW9	10116
		A4D0W4	9606
		A8E657	9913
		A8XI56	6238
		B0W052	7176
		B3MV19	7217
		B3N6N9	7220
		B4G8F0	7234
		B4HYA5	7238
		B4JA33	7222
		B4KGK4	7230

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B4MWK8	7260
B4NZG7	7245
B4Q5T6	7240
C9K2E7	44386
D7EHU4	7070
O44503	6239
Q16FJ9	7159
Q29N04	46245
Q3UEQ9	10090
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Q5XLU9	8022
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B7A8X4	498848	D7BIA1	526227	D7BIA2	526227
D7B9U4	526227	D3PNS4	504728	D3PNS6	504728
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Q1IZ86	319795	D7CX13	649638	D7CX09	649638
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B8G9T2	326427	A5US68	357808	A5US66	357808
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A3L267	350704	B0MCG0	411490
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A7HC70	404589	Q2FTZ8	323259
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A7MF38	290339	Q31ED4	317025
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D6DUS5	718254	Q7NEE9	33072
C8MFP6	553583	C7RK63	522306
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Q5E743	312309	Q8R7C0	119072
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B8GEE4	521011	Q606D4	414
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A4W8L7	399742	B9Z8B8	279714
A4N0R1	374927	B9Z6H2	279714
D3HLC6	661367	B4FSD4	4577
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C6DEP6	561230	B6TEB2	4577
C9Q698	675810	C0N8P6	637616

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D7HQB5	412967	A8UV02	392423
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D0H4U1	675807	B2TQ27	508765
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D1C6B6	479434	D3S7W9	644281
D2PCE1	425944	Q5KSL5	39947
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A4YI79	399549	A3A9S7	39947
D0KT52	555311	Q7XU28	39947
Q4J8E7	2285	C8PVS4	553217
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LysJ		LysK		dihydrodipicolinate synthase	
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Q9RW75	1299	D7CX18	649638	B9GPI1	3694
C1CWU6	546414	Q1IYJ8	319795	B9IC12	3694
A9B812	316274	A7NPL3	383372	Q42948	4097
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B9LF89	480224	Q9RUH3	1299	C6TG34	3847
A9WB46	324602	C1CX65	546414	Q42800	3847
D1CE87	525904	B9LBG7	480224	B8LQ02	3332
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B8DC19	552536	D2RNW3	591001	A4J568	349161
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**aromatic amino acid
aminotransferase I**

UniProt	TXID
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C5DT73	559307
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Q752M6	33169
Q6BYU5	4959
A3LMX7	4924
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**aromatic amino acid
aminotransferase II**

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aminoadipate-semialdehyde dehydrogenase large subunit

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Q5AI83	5476
C4YEZ3	5476
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aminoadipate-semialdehyde dehydrogenase small subunit

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Q6FV34	5478
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bifunctional aspartokinase/homoserine dehydrogenase 1

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aspartate kinase

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aspartate kinase

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homoserine dehydrogenase

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homoserine O-acetyltransferase

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cystathionine gamma-synthase

UniProt	TXID
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		A4RAE8	148305	B8B4G5	39946
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		O04982	4577
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		O74314	4896
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		O97121	7227
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		P32929	9606
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		P55217	3702
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		Q0C8C6	341663
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		Q0CX10	341663
		Q0D1Y8	341663

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Q4P760	5270
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Q4WWD8	5085
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Q6CB42	4952
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Q86ZL4	5145
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Q9C816	3702
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Q9MT29	4113
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Q9P417	5044
Q9SPT6	4113
Q9XFG0	3847
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cystathionine beta-lyase		5-methyltetrahydropteroyltriglutamate-- homocysteine methyltransferase		O-acetylhomoserine (thiol)-lyase	
UniProt	TXID	UniProt	TXID	UniProt	TXID
A1C977	5057	A1CH47	5057	P06106	4932
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A4HKQ5	5660	A6R7F7	339724	C4XWE8	306902
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A4I885	5671	A6YGE7	3649	C5M1S7	294747
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A5DV17	36914	A7T6T8	45351	Q59US5	5476
A6R497	339724	A7TMV4	436907	A3LST3	4924
A6REG4	339724	A8NXT9	240176	C4R7J7	644223

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A7A294	307796	A9PBU6	3694	Q6C7U9	4952
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A9SF32	145481	B0CYJ4	486041	B6HWB3	500485
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P53780	3702	Q4PG29	5270		

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Q4WAK1	5085	Q6KCR2	3702
Q4WVZ1	5085	Q71EW8	3847
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cystathionine gamma-lyase

UniProt	TXID
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D6VPK6	559292
C8Z3L8	643680
C7GPM2	574961
B5VDL1	545124
B3LUU9	285006
A7A0F7	307796
Q6FRS2	5478

homocysteine S-methyltransferase

UniProt	TXID
Q8LAX0	3702
D7L2F0	81972
B9RTM3	3988
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C6THI2	3847
C6TCM1	3847
Q0TXM4	13684

betaine-homocysteine methyltransferase

UniProt	TXID
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O35490	10090
A2ALP9	10090
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C5DG64	559295	Q29LT6	46245	Q1KMD2	8175
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Q6C2Q9	4952	A2R696	425011	B2RCQ6	9606
B2WCB8	426418	A3LQC9	4924	B2RDF4	9606
D5GM51	39416	A4R5G4	148305	B4DPF0	9606
Q2TTY9	5062	A8KB71	7955	B7Z516	9606
B8NYK4	332952	A8WG15	7955	C3YKD9	7739
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B4MG50	7244	Q8H825	39947
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B4JPP3	7222	Q9FUM7	4577
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C5PEF2	222929
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D4DDM4	663202

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D5GJJ5	39416
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O23944	57918
O81334	3544
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Q0GC25	3879
Q0TXK2	13684
Q10KP2	39947
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Q2H5Y9	38033
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Q2U2B2	5062
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Q38DH3	5691
Q4DUG8	5693
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Q55V77	5207
Q59VV6	5476
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Q6BSE9	4959
Q6BZI1	4959
Q6BZJ6	4959
Q6R8F6	4081
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Q86D28	5759
Q86ZL4	5145
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Q9C816	3702
Q9C876	3702
Q9MT29	4113
Q9MT30	4113
Q9SPT6	4113
Q9XFG0	3847
Q9ZPL5	4097
A5JYW2	6239

C4QJR9	6183
Q5K6Y9	5207
A2FEV4	5722
B1X4E2	39717
B4HBA6	7234
B4KJJ5	7230
B5DS13	46245
C1BU59	72036
O02215	6239
O15564	5722
O15565	5722

**5-
methyltetrahydrofolate--
homocysteine
methyltransferase**

UniProt	TXID
Q99707	9606
Q4JIJ3	9913
Q9Z2Q4	10116
A6H5Y3	10090
Q5ZIC7	9031
Q8JIY6	7955
C3YH00	7739
A7SKT1	45351
Q09582	6239
A8XY95	6238
A9V1Z5	81824
D3BM55	670386
Q54P92	44689
D2UYB1	5762
C1EAX2	296587
A4HT60	5671
A8HYR2	3055
C1MHB3	564608
Q4QIT5	5664
A4H4V2	5660
A4RUZ2	436017
C5K5V1	423536
C5KDF9	423536
B7GBG7	556484
D7FUT0	2880
B8C9X1	35128
B7ZLW8	9606
B9TKY6	3988
Q5R872	9601

**serine O-
acetyltransferase**

UniProt	TXID
A2WUJ7	39946
A2X259	39946
A2XC56	39946
A2XDJ1	39946
A2Y6U9	39946
A4IA64	5671
A4S0T9	436017
A5AZH7	29760
A5C9C1	29760
A8JDD3	3055
A9NXF4	3332
A9PJW7	3695
A9TE87	145481
A9TFY0	145481
A9U0K5	145481
B0E8A7	370354
B0EDF4	370354
B0EMQ1	370354
B0EPH7	370354
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B4FRV1	4577
B4FU68	4577
B6TDM6	4577
B6TFX8	4577
B7FKI8	3880
B8LM71	3332
B8LMI3	3332
B9F3W8	39947
B9FHA5	39947

cysteine synthase A

UniProt	TXID
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A1C462	5057
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A1C5C7	5057
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A1DBC7	331117
A2DFV0	5722
A2E119	5722
A2EI82	5722
A2EQY3	5722
A2EUZ5	5722
A2GMG5	5722
A2QUT4	425011
A2R8L0	425011
A2Y9E5	39946
A2ZMY2	39946
A3AQX8	39947
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A4ID39	5671

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B9IDB2	3694	A4RZI1	436017
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B9P7Y5	3694	A4S765	436017
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B9S6T2	3988	A5AEP0	29760
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C5WZ15	4558	A5B2H2	29760
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		A9VDJ3	81824
		A9Y098	4182
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		B2B0Q4	5145
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		B2WDB4	426418
		B2WLZ1	426418
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B4FR08	4577
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cystathionine beta-synthase

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A7TNI3	436907
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Q6CKN5	28985
Q750E3	33169
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C4XVN8	306902
A5DW54	36914
A5DCN0	4929
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chorismate mutase

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C4R6Q3	644223
A5DU51	36914
B5RUN3	4959
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prephenate dehydratase

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Q2UTK6	5062
B8NSF5	332952
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A1C9Q8	5057
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B0Y378	451804
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B4JYX7	7222	A8PTC4	425265	D3U716	4102
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Q9BH24	5693
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C7ZEF7	660122
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Q5KCX2	5207
Q9SSV8	45157

**aspartate
aminotransferase**

UniProt	TXID
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A0CRJ1	5888
A0CXN8	5888
A0CYK9	5888
A0E429	5888
A0E7H1	5888
A1C625	5057
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A1DGQ3	331117
A1DL69	331117
A1YQJ2	39947
A1ZAA5	7227
A2DLF1	5722

**histidinol-phosphate
aminotransferase**

UniProt	TXID
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A1D207	331117
A2QAL3	425011
A3LSV4	4924
A4R5D4	148305
A4RSZ6	436017
A5DDL3	4929
A5E3V6	36914
A6R8T8	339724
A6RQF2	332648
A6ZVG1	307796
A7E9J3	665079
A7THE9	436907
A8J3D3	3055
A8MRI5	3702
A8P5U9	240176
A8PCL5	240176

**aromatic amino acid
aminotransferase I**

UniProt	TXID
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A7TT91	436907
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C5DT73	559307
C5DLN0	559295
Q6CKK3	28985
Q752M6	33169
Q6BYU5	4959
A3LMX7	4924
C4XXW0	306902
B9WA90	573826
C4YJ02	5476

A2F7X5	5722	A8Q8A0	425265	Q5ADA2	5476
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**tyrosine
aminotransferase**

UniProt	TXID
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**D-3-phosphoglycerate
dehydrogenase**

UniProt	TXID
A0SXJ4	4932

**phosphoserine
aminotransferase**

UniProt	TXID
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**phosphoserine
phosphatase**

L-serine dehydratase

homoserine kinase

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threonine synthase		3-deoxy-7-phosphoheptulonate synthase		3-dehydroquininate synthase	
UniProt	TXID	UniProt	TXID	UniProt	TXID
A1CK16	5057	A0BP53	5888	Q8VYV7	3702
A1D7F2	331117	A0D7I3	5888	D7MN11	81972
A2ETD5	5722	A0DJH3	5888	Q30D01	28930
A2R773	425011	A0MH68	4058	Q8RU74	4081
A2ZWT5	39947	A1CCF4	5057	B9VU86	29760
A3LVC4	4924	A1CD93	5057	A5B6G3	29760
A4H7J4	5660	A1CHI4	5057	B9MXD6	3694
A4HVX7	5671	A1CS77	5057	A9PE59	3694
A4RLU0	148305	A1CTE9	5057	B9MXD7	3694
A4RVS2	436017	A1CUX4	331117	C6TGX4	3847
A4RZC1	436017	A1CX96	331117	B7FJL5	3880
A5DAD5	4929	A1D550	331117	A2Z3J8	39946
A5E244	36914	A1DC71	331117	B4FS26	4577
A6QTT7	339724	A2Q900	425011	B6SJH0	4577
A6S215	332648	A2QII3	425011	C5X6V7	4558
A6ZTN2	307796	A2R1A6	425011	Q651F0	39947
A7F7A3	665079	A2YNU0	39946	A9NUF2	3332
A7TT30	436907	A2YWD9	39946	B8LRA2	3332
A8HZZ1	3055	A2ZAB4	39946	A9RZH3	145481
A8NZN1	240176	A3C7D9	39947	A8J463	3055

A8QD54	425265	A3GG00	4924	C1FE63	296587
A9S5B7	145481	A3LTF4	4924	A4RXC8	436017
A9SSV5	145481	A4QYK1	148305	Q019I7	70448
A9TLR9	145481	A4RQ73	148305	B8BZI6	35128
A9V4R9	81824	A4RZ54	436017	C1MKZ4	564608
B0D421	486041	A5C138	29760	B9SUG6	3988
B0XY96	451804	A5DA85	4929	B7G177	556484
B1X4H4	39717	A5DHG5	4929	A1C9L3	5057
B2B1N9	5145	A5DUT1	36914	A4RGL5	148305
B2G3X2	4956	A5DWM2	36914	A6RS33	332648
B2G4S4	4956	A6R0W3	339724	A7ESN1	665079
B2VTP3	426418	A6RB56	339724	B6TGN6	4577
B3LUB6	285006	A6REQ1	339724	B8BVV0	35128
B6HD87	500485	A6RHV6	332648	C8V0N3	227321
B6JVL7	402676	A6RIN5	332648	Q4PE60	5270
B6KQ11	508771	A6RX11	332648	Q5AME2	5476
B6QVH8	441960	A6ZLI8	307796	A5H2P4	36914
B6THZ8	4577	A6ZY03	307796	A5H2Q8	36914
B6TPP7	4577	A7EFK5	665079	B1X3Q4	39717
B7G9C6	556484	A7EHE7	665079	B2VZE7	426418
B8A807	39946	A7F5B6	665079	B4G168	4577
B8AWH3	39946	A7TEB1	436907	B4G1Z7	4577
B8BRC6	296543	A7TTE0	436907	B7ZXL4	4577
B8CBR8	35128	A8J6Q7	3055	B9WFG1	573826
B8MTK3	441959	A8NJE5	240176	C4R4R8	644223
B8NMR6	332952	A8NR52	240176	C5M1X2	294747
B9N1A4	3694	A8PZM8	425265	C7ZD11	660122
B9Q3R4	5811	A8Q6A5	425265	C9SUJ9	526221
B9QH30	432359	A8QAQ6	425265	D5G8D9	39416
B9RK44	3988	A8QD78	425265	Q0UXE1	13684
B9S5U4	3988	A9NUF5	3332	Q5AMU6	5476
B9WHF0	573826	A9NUN2	3332	Q5AZ77	162425
C0NNN6	447093	A9NZV0	3332	Q6C1X5	4952
C0P6C5	4577	A9PF21	3694	Q8LFK9	3702
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C1FFY5	296587	A9RYQ7	145481		
C1G6H2	502780	A9S036	145481		
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C1MQ40	564608	A9TK65	145481		
C4JTQ2	336963	A9TZP0	145481		
C4R057	644223	A9VE96	81824		
C4Y559	306902	B0CVS7	486041		
C4YRB0	5476	B0D7J1	486041		
C5DBY5	559295	B0DV44	486041		
C5DVQ5	559307	B0XRH5	451804		

C5FH22	554155	B0Y669	451804
C5GIS3	559297	B0YCB5	451804
C5JGG1	559298	B0YF87	451804
C5KRV1	423536	B1X4G2	39717
C5MHG4	294747	B2AAC1	5145
C5P123	222929	B2AQP5	5145
C5XHG5	4558	B2AYX6	5145
C5YUZ5	4558	B2VX29	426418
C6HFX5	544712	B2VZZ7	426418
C7GJT3	574961	B2WBX0	426418
C7Z694	660122	B2WF53	426418
C8VIU2	227321	B3LGN0	285006
C8Z4E5	643680	B3LMR3	285006
C9ZT46	679716	B4FMU0	4577
D0NJP0	403677	B4FZ59	4577
D1ZU84	5147	B5VEJ9	545124
D3BUK1	670386	B5VFT8	545124
D4B5N4	663331	B6HB61	500485
D4D679	663202	B6HMQ2	500485
D5GJK7	39416	B6HTS2	500485
D6VR61	559292	B6JV24	402676
D7KR40	81972	B6K4L8	402676
D7MCH0	81972	B6KQ33	508771
P16120	4932	B6Q8J3	441960
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Q0CIS5	341663	B6T4J7	4577
Q0UMX8	13684	B6TUB8	4577
Q2GV42	38033	B6UAK5	4577
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Q2U324	5062	B8ARY1	39946
Q42598	4896	B8BVC7	35128
Q4DIK8	5693	B8LDP4	296543
Q4DLL4	5693	B8LMP9	3332
Q4P6C2	5270	B8LZB9	441959
Q4QFV0	5664	B8MB35	441959
Q4WXC3	5085	B8MB36	441959
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Q5KMM7	5207	B8MYJ8	332952
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Q6C0N3	4952	B9GUY5	3694
Q6CTY8	28985	B9MUW0	3694
Q6FMB9	5478	B9PYJ3	5811

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Q96VZ4	5207	B9VU85	29760
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		C0NV96	447093
		C0P1C9	447093
		C0RZ23	482561
		C0S2T2	482561
		C0SFV6	482561
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		C1G0J6	502780
		C1G7F9	502780
		C1GS88	502779
		C1GXV4	502779
		C1H5Y6	502779
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		C4JG84	336963
		C4JJ23	336963
		C4JU93	336963
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		C4R611	644223
		C4XWJ8	306902
		C4XX57	306902
		C4YED0	5476
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		C5DX11	559307
		C5E1L8	559307
		C5E2I8	559295
		C5FC05	554155
		C5FGE6	554155
		C5GPH0	559297
		C5GSH6	559297
		C5GTI8	559297
		C5JDU9	559298
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		C5M0P6	423536
		C5M6E4	294747
		C5MEN4	294747
		C5NZE4	222929
		C5P018	222929

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C5YJQ4	4558
C6H299	544712
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C6TJC2	3847
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C7GQ13	574961
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C7YLD6	660122
C7YWA2	660122
C8VFP0	227321
C8VNS1	227321
C8Z4V7	643680
C9K7C8	5599
C9SIM7	526221
C9SQE6	526221
C9SQE7	526221
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D0NYT8	403677
D0VBC5	29760
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D4CZ80	663202
D4DBP2	663202
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D5GF45	39416
D6RL96	240176
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D6VS23	559292
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D7M8Q4	81972
D7M981	81972
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O24051	43522
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P21357	4113

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P34725	5476
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P37216	4081
P37822	4113
P79023	5476
P80576	5141
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Q09755	4896
Q0CB67	341663
Q0CN52	341663
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Q0DRF3	39947
Q0UWH1	13684
Q0V1K6	13684
Q0V4Y8	13684
Q0VHY4	5911
Q10KC0	39947
Q2A710	120017
Q2GTA2	38033
Q2HDD0	38033
Q2HG98	38033
Q2UGW7	5062
Q2URC2	5062
Q2UTB3	5062
Q30D02	28930
Q336R7	39947
Q4G2J0	71150
Q4P9Q3	5270
Q4PBX8	5270
Q4PD03	5270
Q4W9G6	5085
Q4WG78	5085
Q4WKK9	5085
Q4WPC4	5085
Q55MJ1	5207
Q55W33	5207
Q570U9	3702
Q5ALQ9	5476
Q5BCQ7	162425
Q5BGH6	162425
Q5EMW0	148305
Q5K879	5207
Q5KHW1	5207

Q5KK60	5207
Q6BIP1	4959
Q6BZ40	4959
Q6CCS4	4952
Q6CDP1	4952
Q6CDZ3	4952
Q6CJG9	28985
Q6CL12	28985
Q6FRA6	5478
Q6FX01	5478
Q6YTT3	39947
Q754W4	33169
Q75DX5	33169
Q75LR2	39947
Q75W16	39947
Q7S715	5141
Q7SCQ0	5141
Q7YW56	5811
Q8H708	4787
Q8H9C9	4113
Q8LAR5	3702
Q9AY42	4530
Q9HEZ8	162425
Q9HEZ9	162425
Q9SK84	3702
Q9UT09	4896

Pentafunctional AROM polypeptide		3-dehydroquinate dehydratase I/shikimate 5-dehydrogenase		shikimate kinase	
UniProt	TXID	UniProt	TXID	UniProt	TXID
P08566	4932	Q9SQT8	3702	A8MRG1	3702
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B3LGE9	285006	B9HSF2	3694	Q9SVA4	3702
A6ZY89	307796	Q30D00	28930	D7LCM2	81972
C7GIN5	574961	A5ATW2	29760	Q30CZ9	28930
C5DVG6	559307	D2KBA9	4113	A5AZY1	29760
Q6FIV4	5478	O65917	4081	B9VU88	29760
C5DN02	559295	Q6PUF9	4097	B9HG21	3694
Q6CJC4	28985	C8KH58	35925	Q00497	4081
Q74ZZ1	33169	B8LLR2	3332	C6TLJ4	3847
C5M1X2	294747	A9NUR4	3332	B4F8E9	4577
C4R4R8	644223	B6TSW1	4577	B6TNA7	4577
C4Y9D5	306902	B4FAK2	4577	Q7X7H9	39947
B9WFG1	573826	B4FH30	4577	Q01HY3	4530

A3LSZ2	4924	B4FN22	4577	Q5JQX9	4530
Q5AMU6	5476	B6UCV5	4577	B8B486	39946
Q5AME2	5476	B8BM99	39946	A2X9M5	39946
A5H2Q8	36914	B8A8A3	39946	B8AV75	39946
A5H2P4	36914	C5YPB6	4558	C5Y8Y1	4558
Q6C1X5	4952	C5XLB0	4558	B9T204	3988
C7YZ74	660122	B9GDI1	39947	A9NUN9	3332
D5G8D9	39416	Q5ZCV1	39947	A8IGF0	3055
Q8X071	5141	A9S495	145481	A9SQ82	145481
D1ZA70	5147	C1FDQ3	296587	C1EGE2	296587
A7F7H0	665079	A8IZ72	3055	B7GAC8	556484
B2B223	5145	A4S5X6	436017	B8C8C4	296543
Q5XNP0	5180	Q00XP3	70448	D7M8K9	81972
Q9P7R0	4896	B3VLC1	332125	Q00VP6	70448
A4RD09	148305	B9I9X4	3694	B9GT47	3694
B6JVD0	402676	B9REX9	3988	Q0DXJ9	39947
C9SE96	526221	A2WQ65	39946	Q5AME2	5476
B6QCA7	441960	A5ATW0	29760	A5DK69	4929
B6QWH9	441960	A5ATW1	29760	A5H2P4	36914
A1D244	331117	B9I835	3694	A5H2Q8	36914
B8M0U4	441959	B9MZN1	3694	B4FPS0	4577
B8N4Q9	332952	B9REY0	3988	B6UDH4	4577
C5PA86	222929	B9REY1	3988	B9F302	39947
Q4WS76	5085	B9REY2	3988	B9FSA8	39947
Q8TFZ0	5085	B9S3X5	3988	B9NKZ2	3694
B0XRM8	451804	C5YPB7	4558	B9WFG1	573826
B6HAA7	500485	Q0JMN4	39947	C0PNT9	4577
P07547	162425	Q6PUG0	4097	C4R4R8	644223
Q2UCP6	5062			C5M1X2	294747
A1CP85	5057			C6THS3	3847
Q0D0F3	341663			D5G8D9	39416
D4D596	663202			Q5AMU6	5476
D4ALM9	663331			Q5NTH3	39947
C5FQ73	554155			Q5NTH4	39947
C0S433	482561			Q6C1X5	4952
Q0V3H0	13684				
A5DK69	4929				
C4JYG6	336963				
C5JKE6	559298				
C5G8R4	559297				
C0NL63	447093				
C6HCG7	544712				
Q8J294	107832				
B0D6H2	486041				
Q5KME5	5207				
Q2GP00	38033				

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A8NMB4	240176
Q4P8F6	5270
A8QCB2	425265
A9V1N3	81824
D0NXA2	403677
C1FYJ9	502780
C1H8L1	502779
A6R8Q8	339724
B2VVY2	426418
Q0VIN9	5911
A0C9W9	5888
A0DH09	5888
C5LBY1	423536
B7FY07	556484
A5DK70	4929
B2VVY3	426418
B8BW72	35128
C8VRD2	227321

3-phosphoshikimate 1-carboxyvinyltransferase

UniProt	TXID
Q9FVP6	3702
D7KD66	81972
A4SB81	436017
A8JH48	3055
A9SYF9	145481
B7FSS5	556484
B8BW66	35128
B9GPE8	3694
B9RDA3	3988
C5Z3D1	4558
P05466	3702
Q5AME2	5476
Q5VNW0	39947
A2T9R8	3046
A2Y8X9	39946
A3B841	39947
A5C3Y3	29760
A5DK69	4929
A5H2P4	36914
A5H2Q8	36914
A7Y7Y2	3635
A9P0E4	3332

chorismate synthase

UniProt	TXID
P28777	4932
D6VU01	559292
C8Z8A2	643680
C7GPQ5	574961
B5VII2	545124
B3LHK3	285006
A6ZU35	307796
Q6FV38	5478
Q6CNY1	28985
C5DL16	559295
A7TIP8	436907
C5DPE2	559307
Q75B59	33169
C4XZV9	306902
Q6BQN1	4959
A5DJM9	4929
C4R1A7	644223
B9WMG9	573826
Q59K34	5476
C4YMI5	5476
A3LYZ8	4924
C5M8C8	294747

bifunctional indole-3-glycerol phosphate synthase/anthranilate synthase component II

UniProt	TXID
P00937	4932
D6VWZ2	559292
C8ZBW9	643680
B5VLV6	545124
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A7A078	307796
C7GJ02	574961
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Q6FUV9	5478
A7TE28	436907
Q6CV69	28985
C5DC85	559295
Q6C9H7	4952
C4R637	644223
Q755S2	33169
P20409	4837
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C4YGA0	5476
C5MBQ8	294747
D5GHJ8	39416
B2AXK8	5145

B2C1I9	3635	A5E0D5	36914	P00908	5141
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B5M6A1	4565	D5GMG1	39416	B2WJ92	426418
B8XU22	3635	B6K4C9	402676	A7F349	665079
B9WFG1	573826	A1CQW8	5057	A6RML4	332648
C1EG02	296587	O74413	4896	C7YYQ5	660122
C1MWX5	564608	C0S9E6	482561	C4XX83	306902
C4R4R8	644223	A6RUL9	332648	A3LYT4	4924
C5MIX2	294747	Q4WJ77	5085	Q0UCF0	13684
C8YXI5	107608	B0XPR6	451804	A4R8N0	148305
C8YXI6	107608	C1GBW5	502780	C4JLE2	336963
C8YYL6	277990	C5JIX7	559298	C5FHC2	554155
C8YYL7	277990	C5GEA6	559297	P24773	5076
D0VBC7	29760	A1D3T1	331117	B6H5A3	500485
D3JPP9	309978	C5P8X2	222929	B6QCL2	441960
D3JPQ0	309978	A7EEZ6	665079	B8M271	441959
D5G8D9	39416	B8ML69	441959	A5DSY8	36914
D7LCH4	81972	B8LU03	441959	A1CPF3	5057
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P10748	4081	B6Q851	441960	C5GII0	559297
P11043	4102	C5FEW3	554155	Q0D0N0	341663
P17688	3708	C0NGC3	447093	C5P5A9	222929
P23981	4097	C4JX7	336963	P05328	5061
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Q93VK6	4530	B0CQS1	486041	B8N4X9	332952
Q946U9	173162	C7YR83	660122	D1ZBC5	5147
Q946V0	173162	Q5KCY4	5207	P06531	162425
		D4D2D9	663202	Q92370	4896
		C1HAK5	502779	Q76JQ3	5334
		D4AVG4	663331	A5DER2	4929
		B2B197	5145	A8N699	240176

Q0UTJ3	13684	Q96WP2	5341
A9V1N2	81824	B6JXZ5	402676
B9SUA2	3988	P25170	5306
Q10NY1	39947	Q6KCN7	76867
B8AKA5	39946	Q873X5	5530
B4FLA2	4577	P09575	4905
B6T4U1	4577	B0D0Y7	486041
B4FRH6	4577	Q9HGK1	38945
B4FTP6	4577	Q5KC22	5207
C5WQV1	4558	Q4PBY7	5270
B5AAU3	112509	A8PZV8	425265
Q30CZ7	28930	Q92411	5016
Q42884	4081	C8VS06	227321
Q42885	4081	A6QTP2	339724
B8LL06	3332	B8M8Z8	441959
B8BT00	296543	B8M8Z9	441959
A9RTV8	145481	P48261	2762
P27793	3464		
B7FS76	556484		
A0DHI8	5888		
A1XYU5	39717		
A5APN1	29760		
B9VU84	29760		
A8J2Z6	3055		
A9PGP7	3694		
B9HLM0	3694		
C1E5R8	296587		
A4RTB7	436017		
D7KD60	81972		
Q0WUP7	3702		
P57720	3702		
Q2V4H9	3702		
Q2V4I0	3702		
Q38RG6	3847		
C1MMY6	564608		
A7T8F5	45351		
B3L7H9	5851		
B6KIM6	508771		
C6KT66	36329		
Q23FV7	312017		
Q4PER1	5270		
Q4XVI2	5825		
Q4Z596	5821		
Q7RHB8	73239		
Q8WRC8	5855		
B9PUU8	5811		

B9QG39	432359
C9SJN6	526221
D0MU16	403677
O02607	5811
O15864	5833
Q0CTR0	341663
Q4X9S6	5825

**anthranilate
phosphoribosyltransferase**

UniProt	TXID
A1CIC4	5057
A1CWD6	331117
A2Q9B1	425011
A2XBZ0	39946
A3GEY1	4924
A4QT64	148305
A4RYP9	436017
A5B8K2	29760
A5DM37	4929
A5E7Q9	36914
A6QVU0	339724
A6RR68	332648
A6ZYV4	307796
A7EN33	665079
A7THU8	436907
A8IBN0	3055
A8NRZ3	240176
A8PWM8	425265
A9T6I7	145481
B0DQ35	486041
B0Y4G1	451804
B2B367	5145
B2VTL9	426418
B3LFU7	285006
B4FB65	4577
B5VGN6	545124
B6HUC6	500485
B6K3I2	402676
B6QQI1	441960
B7G4F0	556484
B8A0L5	4577
B8LWE3	441959
B8N131	332952
B9NGG3	3694
B9RB03	3988
B9WF64	573826

**phosphoribosylanthranilate
isomerase**

UniProt	TXID
A3GFA8	4924
A4Z4U7	4911
A5DK25	4929
A5DVR7	36914
A6ZXX3	307796
A7T441	45351
A7TI73	436907
A7ULH8	272698
A8DWA1	45351
A8J650	3055
A9UKH6	4905
B3H4J9	3702
B3LGQ1	285006
B4FHC1	4577
B4FZQ3	4577
B5VFR6	545124
B6U7W9	4577
B7FWK1	556484
B8AFB5	39946
B9HHQ7	3694
B9I455	3694
B9SQM9	3988
B9W6H2	573826
C4J8W8	4577
C4QV11	644223
C4Y5L4	306902
C4YFW5	5476
C5DNE4	559295
C5DPN7	559307
C5MDZ4	294747
C5XZK5	4558
C5Z371	4558
C7GXY3	574961
C8Z4S7	643680
D6VRZ5	559292
D7LYY8	81972

**indole-3-glycerol
phosphate synthase**

UniProt	TXID
P49572	3702
Q1EBW5	3702
Q8GYM9	3702
Q9LUB2	3702
A8MS79	3702
D7L7H9	81972
B9G099	39947
Q8H3R5	39947
Q6K307	39947
Q6K306	39947
C1N2H5	564608
D7ML37	81972
B9T1U0	3988
B7FI09	3880
C0PGV5	4577
B4G1Z5	4577
C5YA91	4558
Q01IS1	4530
Q7XJW1	4530
A9NUS4	3332
B8AV46	39946
B9IAU9	3694
A9TUX8	145481
C1DZA7	296587
A4RZE7	436017
A8HT60	3055
B4FS35	4577
B6UGU8	4577
B8CAE6	35128
C5X8Y0	4558
C5Y188	4558
B4FLA1	4577
B7FXG0	556484
B8B9Q2	39946
B8BDF0	39946
B9FFL9	39947

C0NJM9	447093	O13504	4922	B9NGG4	3694
C0S5A0	482561	P00912	4932	C0P9Q8	4577
C1E0Z8	296587	P13997	28985	C4J6J4	4577
C1G4C3	502780	P43073	5476	C5YJF0	4558
C1GW67	502779	P50857	5478	C8TFG9	39946
C4JSB2	336963	Q01128	29829		
C4R7F6	644223	Q1M2R6	37620		
C4Y377	306902	Q39245	3702		
C5DJH7	559295	Q39246	3702		
C5DY18	559307	Q3E9L0	3702		
C5FU89	554155	Q42440	3702		
C5GWR0	559297	Q42527	3702		
C5JXH8	559298	Q42528	3702		
C5PG24	222929	Q5AB75	5476		
C5X013	4558	Q5XQP9	114524		
C6HJ38	544712	Q6BY13	4959		
C7GMI0	574961	Q6ETX4	39947		
C7YH07	660122	Q6UYC0	3702		
C8V439	227321	Q757J9	33169		
C8Z5R5	643680	Q875I3	4927		
C9S867	526221	Q8LP19	3702		
D0NUM7	403677	Q8VY51	3702		
D1ZI58	5147	Q8X1D9	4952		
D4AW48	663331	Q9FFF7	3702		
D4DBX8	663202	Q9HFW8	4954		
D5G442	39416	Q9S731	3702		
D6VSY4	559292	Q9SPV7	3702		
D7FW59	2880	Q9SPV8	3702		
D7LC24	81972	Q9SPV9	3702		
D7LDH9	81972	Q9SPW0	3702		
D7LXP9	81972	Q9SPW1	3702		
O60122	4896				
P07285	4932				
Q017G3	70448				
Q02166	3702				
Q0CR19	341663				
Q0UME3	13684				
Q10SD5	39947				
Q10SD6	39947				
Q2H180	38033				
Q2UJZ6	5062				
Q4PH95	5270				
Q4WQ89	5085				
Q547D7	3702				
Q5A0Z7	5476				
Q5A168	5476				

Q5B746	162425
Q5KN34	5207
Q6BI72	4959
Q6C7L2	4952
Q6CMB3	28985
Q6FY26	5478
Q756L5	33169
Q7RZ63	5141
Q8S5W5	39947

tryptophan synthase		anthranilate synthase component I		anthranilate synthase component II	
UniProt	TXID	UniProt	TXID	UniProt	TXID
A1C701	5057	P00899	4932	Q9FXK1	3702
A1C8N4	5057	D3DLZ7	559292	Q9FE37	3702
A1CUJ3	5057	C8Z7A6	643680	A4S3X3	436017
A1DHM9	331117	C7GRS3	574961	A8HP28	3055
A1DLE7	331117	B5VHL7	545124	A9TZ60	145481
A1DMZ6	331117	B3LRK8	285006	B6UGS8	4577
A1DP73	331117	A6ZR46	307796	B9HVR6	3694
A2QC38	425011	Q6FQM6	5478	B9SNH9	3988
A2QZ07	425011	A7TMV6	436907	C5WN01	4558
A2R771	425011	C5DQU0	559307	Q42565	3702
A2RAW9	425011	Q6CMI3	28985	Q764B9	39947
A2XMX3	39946	C5DE84	559295	Q7XUS2	39947
A2XMX4	39946	C5M4E1	294747	Q9FJM5	3702
A2XMX5	39946	Q6BYR7	4959	A1CPF3	5057
A2YFA8	39946	A3M0I8	4924	A1D2B1	331117
A2YIT3	39946	B9WKY8	573826	A2QRH6	425011
A2YR01	39946	C4YKZ6	5476	A2XUC4	39946
A3ANM5	39947	Q5A9L8	5476	A4R8N0	148305
A3ANM6	39947	Q5A9B9	5476	A6QTP2	339724
A3BDS5	39947	C4XWR7	306902	A6RML4	332648
A3BH76	39947	C4QZU0	644223	A7F349	665079
A3GH63	4924	A5DEH6	4929	B0XR95	451804
A4R8A0	148305	Q75D13	33169	B1X4B6	39717
A4RVE9	436017	Q6C5V8	4952	B2AXK8	5145
A4S0C1	436017	Q2ULK9	5062	B2WJ92	426418
A5AI98	29760	B8N253	332952	B6H5A3	500485
A5E4I2	36914	A2QLM4	425011	B6QCL2	441960
A6RAG5	339724	A1CU99	5057	B6T2R9	4577
A6RUK6	332648	C1H2L2	502779	B6TJE4	4577
A6ZUW8	307796	C5JD45	559298	B7FJB9	3880
A7ES09	665079	C5GVJ5	559297	B8AQP1	39946
A7TKX5	436907	B8M905	441959	B8M271	441959
A7UX21	5141	B8MAL9	441959	B8M8Z8	441959
A8IFZ9	3055	C1GB53	502780	B8M8Z9	441959

A8J599	3055	C0S905	482561	B8N4X9	332952
A8NEP3	240176	A1DNY2	331117	B9FFK4	39947
A8PRB2	425265	Q4WLR6	5085	B9TB57	3988
A9NUV8	3332	B0Y8U4	451804	C0NNJ0	447093
A9PGZ5	3694	C4JSG9	336963	C0PIP8	4577
A9PJJ9	3695	Q0CSS2	341663	C0S7N5	482561
A9RDX2	145481	B6QDK2	441960	C1ECT8	296587
A9RJ02	145481	A6R6G6	339724	C1GJ38	502780
A9RJP2	145481	D4DH22	663202	C1HD27	502779
A9RTF1	145481	A4R7P3	148305	C1N9X4	564608
A9S4R5	145481	C5PFW8	222929	C4JBA3	4577
A9V2F2	81824	C5FL75	554155	C4JLE2	336963
B0CS16	486041	C9SKS1	526221	C4R637	644223
B0XM82	451804	C8V7L2	227321	C5DC85	559295
B0XTB9	451804	C0NHA0	447093	C5DZ89	559307
B0ZSJ6	3847	A7E6R5	665079	C5FHC2	554155
B2ACV4	5145	D5GN36	39416	C5GII0	559297
B2W653	426418	Q5B6Y5	162425	C5JGB7	559298
B2Y0K4	4577	B6HT18	500485	C5P5A9	222929
B3LIN9	285006	O94582	4896	C6HFS8	544712
B4F800	4577	C6H6M2	544712	C7YYQ5	660122
B4FGW7	4577	B6K2N8	402676	C9SP56	526221
B4FIR7	4577	Q0UL85	13684	D4ARE5	663331
B4FTB8	4577	Q4PHV9	5270	D4DA85	663202
B6HLH5	500485	A8NHG9	240176	D5GHJ8	39416
B6HT75	500485	B0D3J2	486041	D7KAK0	81972
B6K8C9	402676	A5DS63	36914	D7LCU7	81972
B6QC07	441960	D4ATA7	663331	D7LP35	81972
B6SCC6	103766	B2ADS2	5145	D7LQ09	81972
B6SCC7	103766	Q55R50	5207	P00908	5141
B6SCC8	565971	Q5KF19	5207	P05328	5061
B6SCC9	565971	Q872P4	5141	P06531	162425
B6SCD0	565971	C7Z803	660122	P18483	105351
B6SCD2	53161	A8PQY2	425265	P20409	4837
B6TI69	4577	D1ZJV6	5147	P24773	5076
B6TS31	4577	D0MTW7	403677	P48261	2762
B6U662	4577	B2W891	426418	P51362	2787
B7FQI2	556484	Q2GU28	38033	Q00ZS5	70448
B8ALB1	39946	A6S6K0	332648	Q0D0N0	341663
B8CEN4	35128	A9SGW3	145481	Q0UCF0	13684
B8LQ55	3332	A9T285	145481	Q1XDC5	2788
B8M3L9	441959	A9T2B2	145481	Q25A90	4530
B8MZR1	332952	B9SI04	3988	Q2H6W2	38033
B8N9Y5	332952	B9SLL9	3988	Q2UCI0	5062
B8NGL5	332952	C5WU43	4558	Q4PBY7	5270
B8NW60	332952	P32068	3702	Q5KC22	5207

B9GS77	3694	P32069	3702	Q6B925	285951
B9H8G5	3694	Q10B97	39947	Q6MYH9	5085
B9HZK8	3694	Q45KJ2	4577	Q873X5	5530
B9I0B9	3694	Q9XJ29	39947	Q8L9I8	3702
B9I7M4	3694	A2XNK3	39946	Q92370	4896
B9PET1	3694	A5BV77	29760	Q92411	5016
B9PFJ8	3694	A6S6J9	332648		
B9RXQ0	3988	B1X521	39717		
B9S4R8	3988	B4F8P4	4577		
B9SAI8	3988	B8AKD7	39946		
B9WQG5	573826	B9F770	39947		
C0HGY6	4577	C1E0B2	296587		
C0NSJ2	447093	C1MRE5	564608		
C0P7Z2	4577	C4JBB1	4577		
C0SC97	482561	D7LLC3	81972		
C1DY75	296587	D7LV96	81972		
C1DZ74	296587	D7LZ03	81972		
C1FGK1	296587	O81533	4097		
C1GI69	502780	Q015Q7	70448		
C1H5U4	502779	Q0KIX3	4498		
C1MQU0	564608	Q0KIX4	4498		
C4J9I9	4577	Q0KIX5	4498		
C4JV91	336963	Q10NN4	39947		
C4R1F2	644223	Q10NN5	39947		
C4R547	644223	Q10NN7	39947		
C4XZK1	306902	Q10NN8	39947		
C5DHV1	559295	Q41155	37565		
C5E048	559307	Q41156	37565		
C5FPG0	554155	Q5XLF2	16922		
C5GT68	559297	Q5XLF3	16922		
C5JLJ6	559298	Q84QB7	39947		
C5MCT3	294747	Q944Q5	3702		
C5P0D6	222929	Q94GF1	4530		
C5WX66	4558	Q9AW95	4058		
C5WX67	4558	Q9LY58	3702		
C5WX69	4558	Q9XJ30	39947		
C5XB29	4558				
C5Z690	4558				
C6HDU0	544712				
C6T703	3847				
C6TF21	3847				
C6THT5	3847				
C6TKV4	3847				
C7GS99	574961				
C7Z1A2	660122				
C8V1R2	227321				

C8VGH6	227321
C8Z8L6	643680
C9SFC8	526221
D0AB52	39946
D0AB53	39946
D0N5Q5	403677
D1ZU10	5147
D3AW64	670386
D4AMB4	663331
D4D9I8	663202
D5ABD1	3332
D5G583	39416
D5GHY3	39416
D6RKG0	240176
D6VUB2	559292
D7KMG3	81972
D7LUW2	81972
D7M3G0	81972
D7MEJ4	81972
D7MJX6	81972
D7MUW5	81972
O04225	4530
O13831	4896
O22765	3702
O50046	16922
P00931	4932
P13228	5141
P14671	3702
P16578	5346
P25269	3702
P42390	4577
P43283	4577
P43284	4577
Q014Y8	70448
Q01BL5	70448
Q0CF14	341663
Q0CIQ9	341663
Q0CYD3	341663
Q0ULK5	13684
Q0WS13	3702
Q0WUI8	3702
Q0WWE0	3702
Q2GMW7	38033
Q2TX96	5062
Q2UFA5	5062
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Q2UQB8	5062
Q42529	3702
Q4P5M9	5270
Q4WLH4	5085
Q4X0J6	5085
Q55Z78	5207
Q56YC7	3702
Q58A35	4565
Q58A36	4565
Q59KP3	5476
Q5AZP9	162425
Q5B1Y6	162425
Q5CDU1	237895
Q5KNJ3	5207
Q5KT13	96455
Q659I8	161756
Q67VM1	39947
Q67VM2	39947
Q6BS14	4959
Q6C0G7	4952
Q6CNQ8	28985
Q6FXZ3	5478
Q6YYB9	39947
Q6ZL61	39947
Q752T8	33169
Q7XAK6	4565
Q7Y1H9	39947
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Q7Y1I9	39947
Q7Y1J1	39947
Q874B5	96454
Q8GWQ8	3702
Q8LA83	3702
Q8W0T4	4558
Q9FFW8	3702
Q9FQ75	4577
Q9FQ77	4577
Q9P4D5	162425

**pyruvate
dehydrogenase**

UniProt	TXID
A0BMJ5	5888
A0BWV5	5888
A0BYJ3	5888
A0C608	5888
A0C609	5888

GDH2

UniProt	TXID
P33327	4932
D6VRD9	559292
B3LH95	285006
A6ZXB8	307796
C8Z6Q4	643680

GLUD1

UniProt	TXID
A0AG12	386043
A0AQX1	1599
A0BLL2	5888
A0BRD6	5888
A0D0R3	5888

A0CAD2	5888	C7GSW2	574961	A0DCF5	5888
A0CTC0	5888	Q6FT35	5478	A0K0R0	290399
A0DIQ3	5888	C5DTM8	559307	A0K4J4	331272
A0DRP7	5888	A7TL77	436907	A0LNB5	335543
A1CC50	5057	C5DD00	559295	A0LND6	335543
A1CEI6	5057	Q750J1	33169	A0LZA8	411154
A1CQW6	5057	Q6CRJ9	28985	A0M5G0	411154
A1D3S9	331117	A5DKC9	4929	A0M685	411154
A1DFQ7	331117	C4YB08	306902	A0Q1V4	386415
A1DKN9	331117	C4YK87	5476	A0Q832	401614
A2CI50	3144	Q5A2L3	5476	A0R3E3	246196
A2Q7C0	425011	Q5A2S3	5476	A0RBU7	412694
A2QPI1	425011	A3LVW5	4924	A0RR57	360106
A2QWB4	425011	B8YJM3	4924	A0RU01	46770
A2XPT6	39946	Q6BUJ8	4959	A0YQX1	313612
A2YB83	39946	C5M741	294747	A0YYR7	313612
A2YXH5	39946	B9WC72	573826	A0ZB83	313624
A2Z2Z0	39946	A5DX46	36914	A0ZZA6	367928
A3CJH1	39947	C4R0A2	644223	A1ABU2	405955
A3GEX9	4924	D1ZFZ8	5147	A1APQ5	338966
A3LYM2	4924	P00365	5141	A1AUR9	338966
A4H9P1	5660	B2WN29	426418	A1B8U4	318586
A4HEH1	5660	Q0UEU1	13684	A1BCV7	290317
A4HY08	5671	B6Q390	441960	A1HLZ4	401526
A4IIL9	5671	B6Q389	441960	A1HSF6	401526
A4R8U2	148305	B2AW77	5145	A1KVB4	272831
A4RNF5	148305	B8LT73	441959	A1R9V9	290340
A4RRY3	436017	D5GF65	39416	A1RT74	384616
A4RYZ2	436017	C5PHJ9	222929	A1RVI3	384616
A5A6L0	9598	A4QSW7	148305	A1RYG4	368408
A5ACP6	29760	Q9C2U8	5127	A1SH86	196162
A5B2Z7	29760	B0XVW9	451804	A1TEH7	350058
A5DKG2	4929	Q4WHB4	5085	A1TIL2	397945
A5DM34	4929	A1DG18	331117	A1TXD9	351348
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A5E7Q7	36914	A1C5Y4	5057	A1VGK8	391774
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A6ZRD5	307796	C4JF29	336963	A2CA49	59922

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A7MB35	9913	D4AL96	663331	A2G1Y8	5722
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B3MT41	7217	C0QD21	177437	A4CMC0	313596
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C1N531	564608	B3CPG6	570417	A7Z646	326423
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