

Supplementary Material S1. Benchmark Dataset

"1" represents that the enzyme belongs to corresponding class						
"0" represents that the enzyme does not belong to corresponding class						
Multi-family enzyme	EC 1	EC 2	EC 3	EC 4	EC 5	EC 6
P05080	0	1	1	0	0	0
P14060	1	0	0	0	1	0
P27365	1	0	0	0	1	0
Q60555	1	0	0	0	1	0
P24815	1	0	0	0	1	0
P22071	1	0	0	0	1	0
P26439	1	0	0	0	1	0
Q64421	1	0	0	0	1	0
P26149	1	0	0	0	1	0
P22072	1	0	0	0	1	0
P26150	1	0	0	0	1	0
Q62878	1	0	0	0	1	0
O35469	1	0	0	0	1	0
P14893	1	0	0	0	1	0
Q5IFP1	1	0	0	0	1	0
Q67477	1	0	0	0	1	0
O46516	1	0	0	0	1	0
O53454	1	0	0	0	1	0
Q9N119	1	0	0	0	1	0
O57245	1	0	0	0	1	0
P21097	1	0	0	0	1	0
P26670	1	0	0	0	1	0
A8AP56	0	1	0	0	0	1
A7MR36	0	1	0	0	0	1
A7ZQU2	0	1	0	0	0	1
B7UHQ4	0	1	0	0	0	1
B7MLI2	0	1	0	0	0	1
B7LF13	0	1	0	0	0	1
Q8X6J8	0	1	0	0	0	1
B5Z4F4	0	1	0	0	0	1
B7NVY2	0	1	0	0	0	1
C4ZZY9	0	1	0	0	0	1
B1XDP2	0	1	0	0	0	1
A8A3X0	0	1	0	0	0	1
A1AF47	0	1	0	0	0	1
Q0TDZ6	0	1	0	0	0	1
Q8FEA6	0	1	0	0	0	1
B1IU08	0	1	0	0	0	1
P31119	0	1	0	0	0	1
B7N768	0	1	0	0	0	1
B6I6W1	0	1	0	0	0	1
B1LR34	0	1	0	0	0	1

Q1R7H5	0	1	0	0	0	1
A4WE11	0	1	0	0	0	1
Q6D107	0	1	0	0	0	1
B2VFS7	0	1	0	0	0	1
B7LNJ2	0	1	0	0	0	1
B5XUP2	0	1	0	0	0	1
A6TDH2	0	1	0	0	0	1
C6DE43	0	1	0	0	0	1
Q7N7A9	0	1	0	0	0	1
B5F4V4	0	1	0	0	0	1
Q57KA7	0	1	0	0	0	1
B5FUB9	0	1	0	0	0	1
B5QWU2	0	1	0	0	0	1
B5RDY6	0	1	0	0	0	1
B4TGR5	0	1	0	0	0	1
B4T503	0	1	0	0	0	1
Q5PEN7	0	1	0	0	0	1
A9N3H8	0	1	0	0	0	1
C0PXJ8	0	1	0	0	0	1
B5BFH6	0	1	0	0	0	1
B4TUM9	0	1	0	0	0	1
Q8Z406	0	1	0	0	0	1
Q8ZMA4	0	1	0	0	0	1
B2TYQ5	0	1	0	0	0	1
Q0T128	0	1	0	0	0	1
Q83JV7	0	1	0	0	0	1
Q3YY21	0	1	0	0	0	1
A1JPF0	0	1	0	0	0	1
A7FFD1	0	1	0	0	0	1
Q1CAS8	0	1	0	0	0	1
B2JZ75	0	1	0	0	0	1
Q74RZ6	0	1	0	0	0	1
A9R2S1	0	1	0	0	0	1
A4TLD3	0	1	0	0	0	1
Q9C5U0	0	1	1	0	0	0
Q9ZPI6	1	0	0	1	1	0
P00561	1	1	0	0	0	0
P27725	1	1	0	0	0	0
P00562	1	1	0	0	0	0
Q9SA18	1	1	0	0	0	0
P49079	1	1	0	0	0	0
O81852	1	1	0	0	0	0
P49080	1	1	0	0	0	0
P57290	1	1	0	0	0	0
Q8K9U9	1	1	0	0	0	0
Q89AR4	1	1	0	0	0	0

P37142	1	1	0	0	0	0
P44505	1	1	0	0	0	0
Q9NP73	0	1	1	0	0	0
Q9D8C3	0	1	1	0	0	0
P07874	0	1	0	0	1	0
P59785	0	1	0	0	1	0
Q88ND5	0	1	0	0	1	0
Q887Q9	0	1	0	0	1	0
P54889	1	1	0	0	0	0
Q10630	0	1	1	0	0	0
Q13686	1	0	0	1	0	0
P0CB42	1	0	0	1	0	0
P08478	1	0	0	1	0	0
P12890	1	0	0	1	0	0
P83388	1	0	0	1	0	0
P10731	1	0	0	1	0	0
P19021	1	0	0	1	0	0
P97467	1	0	0	1	0	0
P14925	1	0	0	1	0	0
P78586	1	1	0	0	0	0
Q54M18	1	1	0	0	0	0
P54898	1	1	0	0	0	0
P31318	1	1	0	0	0	0
Q01217	1	1	0	0	0	0
Q9K3D6	0	1	0	1	0	0
Q9K3D7	0	1	0	1	0	0
A0KGY6	1	1	0	0	0	0
A4SQW9	1	1	0	0	0	0
A7ZP73	1	1	0	0	0	0
B7UFR7	1	1	0	0	0	0
B7MG22	1	1	0	0	0	0
B7LAS0	1	1	0	0	0	0
Q8XDZ3	1	1	0	0	0	0
B5YXP8	1	1	0	0	0	0
B7NNT4	1	1	0	0	0	0
B7MXT6	1	1	0	0	0	0
B7M5T7	1	1	0	0	0	0
C4ZU97	1	1	0	0	0	0
B1X8W8	1	1	0	0	0	0
A8A2C2	1	1	0	0	0	0
A1ADA7	1	1	0	0	0	0
Q0TFI7	1	1	0	0	0	0
Q8FFM1	1	1	0	0	0	0
B1IXT2	1	1	0	0	0	0
P77398	1	1	0	0	0	0
B7N5M0	1	1	0	0	0	0

B6I7J8	1	1	0	0	0	0
B1LLK9	1	1	0	0	0	0
Q1R9G0	1	1	0	0	0	0
A4WAM3	1	1	0	0	0	0
Q6D2F1	1	1	0	0	0	0
B2VBI9	1	1	0	0	0	0
B7LM76	1	1	0	0	0	0
B5XTK9	1	1	0	0	0	0
A6TF98	1	1	0	0	0	0
C6DAW5	1	1	0	0	0	0
Q7N3Q7	1	1	0	0	0	0
B4ETL7	1	1	0	0	0	0
Q48HZ1	1	1	0	0	0	0
A6V1P0	1	1	0	0	0	0
B7VBN2	1	1	0	0	0	0
Q02R25	1	1	0	0	0	0
Q9HY63	1	1	0	0	0	0
Q4KC82	1	1	0	0	0	0
C3KAD2	1	1	0	0	0	0
Q3KCC1	1	1	0	0	0	0
Q4ZSZ2	1	1	0	0	0	0
B5EZH8	1	1	0	0	0	0
P0C0R6	1	1	0	0	0	0
B5FNT9	1	1	0	0	0	0
B5R272	1	1	0	0	0	0
B5RCC4	1	1	0	0	0	0
B4TBG6	1	1	0	0	0	0
B4SYX1	1	1	0	0	0	0
Q5PNA6	1	1	0	0	0	0
A9N5B2	1	1	0	0	0	0
C0Q069	1	1	0	0	0	0
B5BCP6	1	1	0	0	0	0
B4TPI2	1	1	0	0	0	0
Q8Z540	1	1	0	0	0	0
O52325	1	1	0	0	0	0
A8GDR7	1	1	0	0	0	0
A8FRR2	1	1	0	0	0	0
B2TW38	1	1	0	0	0	0
Q31YK2	1	1	0	0	0	0
Q32DT3	1	1	0	0	0	0
Q0T2M8	1	1	0	0	0	0
Q83QT8	1	1	0	0	0	0
Q3YZV1	1	1	0	0	0	0
Q2NRV7	1	1	0	0	0	0
Q8D341	1	1	0	0	0	0
A1JPN5	1	1	0	0	0	0

A7FHH4	1	1	0	0	0	0
Q1C742	1	1	0	0	0	0
B2K5L3	1	1	0	0	0	0
Q8ZDX8	1	1	0	0	0	0
A9R093	1	1	0	0	0	0
Q1CIH7	1	1	0	0	0	0
A4TIM4	1	1	0	0	0	0
Q93PD8	1	1	0	0	0	0
B1JJ30	1	1	0	0	0	0
A5H2Q8	1	1	0	1	0	0
B6QWH9	1	1	0	1	0	0
A5H2P4	1	1	0	1	0	0
B6QCA7	1	1	0	1	0	0
C0NL63	1	1	0	1	0	0
C6HCG7	1	1	0	1	0	0
A6R8Q8	1	1	0	1	0	0
C5G8R4	1	1	0	1	0	0
C5JKE6	1	1	0	1	0	0
C5FQ73	1	1	0	1	0	0
Q74ZZ1	1	1	0	1	0	0
A1CP85	1	1	0	1	0	0
B0XRM8	1	1	0	1	0	0
B8N4Q9	1	1	0	1	0	0
Q4WS76	1	1	0	1	0	0
Q2UCP6	1	1	0	1	0	0
Q0D0F3	1	1	0	1	0	0
Q5AME2	1	1	0	1	0	0
B9WFG1	1	1	0	1	0	0
Q6FIV4	1	1	0	1	0	0
C5M1X2	1	1	0	1	0	0
C4Y9D5	1	1	0	1	0	0
C5PA86	1	1	0	1	0	0
A8NMB4	1	1	0	1	0	0
P0CM23	1	1	0	1	0	0
P0CM22	1	1	0	1	0	0
P07547	1	1	0	1	0	0
Q6CJC4	1	1	0	1	0	0
B0D6H2	1	1	0	1	0	0
C5DN02	1	1	0	1	0	0
A4RD09	1	1	0	1	0	0
A8QCB2	1	1	0	1	0	0
C7YZ74	1	1	0	1	0	0
A1D244	1	1	0	1	0	0
Q8X071	1	1	0	1	0	0
C1H8L1	1	1	0	1	0	0
C1FYJ9	1	1	0	1	0	0

C0S433	1	1	0	1	0	0
B6HAA7	1	1	0	1	0	0
Q0V3H0	1	1	0	1	0	0
C4R4R8	1	1	0	1	0	0
A3LSZ2	1	1	0	1	0	0
Q12659	1	1	0	1	0	0
B2B223	1	1	0	1	0	0
B6JVD0	1	1	0	1	0	0
Q9P7R0	1	1	0	1	0	0
A7F7H0	1	1	0	1	0	0
Q5XNP0	1	1	0	1	0	0
D1ZA70	1	1	0	1	0	0
B8M0U4	1	1	0	1	0	0
Q8J294	1	1	0	1	0	0
C4JYG6	1	1	0	1	0	0
Q4P8F6	1	1	0	1	0	0
C9SE96	1	1	0	1	0	0
Q6C1X5	1	1	0	1	0	0
B3LGE9	1	1	0	1	0	0
C7GIN5	1	1	0	1	0	0
A6ZY89	1	1	0	1	0	0
C8Z543	1	1	0	1	0	0
P08566	1	1	0	1	0	0
C5DVG6	1	1	0	1	0	0
P56961	1	0	0	1	0	0
Q9Z6M4	1	0	0	1	0	0
O84375	1	0	0	1	0	0
P39912	0	1	0	0	1	0
Q8G5X4	0	1	0	1	0	0
Q9WYI3	0	1	0	1	0	0
Q14032	0	1	1	0	0	0
Q91X34	0	1	1	0	0	0
Q63276	0	1	1	0	0	0
Q5F5C8	0	1	0	0	0	1
Q9JWI7	0	1	0	0	0	1
Q9JXF1	0	1	0	0	0	1
Q2KXN6	0	1	0	0	0	1
B0F481	0	1	0	0	0	1
B3PI89	0	1	1	0	0	0
Q21FY5	0	1	1	0	0	0
C4LK80	0	1	0	0	0	1
Q6A6M4	0	1	0	0	0	1
D4H9Y2	0	1	0	0	0	1
O96553	1	0	1	0	0	1
P11586	1	0	1	0	0	1
Q922D8	1	0	1	0	0	1

Q5R8P0	1	0	1	0	0	1
P27653	1	0	1	0	0	1
Q8WZJ7	1	0	1	0	0	1
Q27772	1	0	1	0	0	1
P07245	1	0	1	0	0	1
O43007	1	0	1	0	0	1
P09440	1	0	1	0	0	1
Q76MX2	0	1	0	1	0	0
Q9FS29	0	1	0	1	0	0
F4K5T2	0	1	0	1	0	0
P22637	1	0	0	0	1	0
Q57307	1	0	0	0	1	0
P12676	1	0	0	0	1	0
P75726	0	1	0	1	0	0
P44459	0	1	0	1	0	0
P45413	0	1	0	1	0	0
O35033	0	0	0	1	0	1
O51752	0	0	0	1	0	1
P0ABQ1	0	0	0	1	0	1
P0ABQ0	0	0	0	1	0	1
P44953	0	0	0	1	0	1
Q58323	0	0	0	1	0	1
P67734	0	0	0	1	0	1
P67733	0	0	0	1	0	1
P73881	0	0	0	1	0	1
Q9KVD1	0	0	0	1	0	1
Q5E8M6	0	0	0	1	0	1
Q87T89	0	0	0	1	0	1
Q8DDX8	0	0	0	1	0	1
Q7MPS9	0	0	0	1	0	1
Q9GMC7	1	0	0	1	0	0
P05185	1	0	0	1	0	0
Q9N0U7	1	0	0	1	0	0
Q64410	1	0	0	1	0	0
P12394	1	0	0	1	0	0
Q9GMC8	1	0	0	1	0	0
Q95328	1	0	0	1	0	0
P05093	1	0	0	1	0	0
O73853	1	0	0	1	0	0
Q2XVA1	1	0	0	1	0	0
Q8HYM9	1	0	0	1	0	0
P70687	1	0	0	1	0	0
P27786	1	0	0	1	0	0
P30437	1	0	0	1	0	0
P70085	1	0	0	1	0	0
Q8HYN1	1	0	0	1	0	0

Q8HYN0	1	0	0	1	0	0
Q9GLD2	1	0	0	1	0	0
Q91Z85	1	0	0	1	0	0
P19100	1	0	0	1	0	0
O57525	1	0	0	1	0	0
P11715	1	0	0	1	0	0
Q29497	1	0	0	1	0	0
Q92113	1	0	0	1	0	0
Q9UVY5	0	0	0	1	1	0
O13284	0	0	0	1	1	0
Q46925	0	1	0	1	0	0
Q9S757	0	1	0	1	0	0
Q43153	0	1	0	1	0	0
A0KLD7	1	1	0	1	0	0
A4SHL4	1	1	0	1	0	0
A7MJ67	1	1	0	1	0	0
Q6D1A4	1	1	0	1	0	0
A1WWP8	1	1	0	1	0	0
A6TD45	1	1	0	1	0	0
A8G9Y3	1	1	0	1	0	0
A1JS8	1	1	0	1	0	0
A7FLY4	1	1	0	1	0	0
Q1CLS2	1	1	0	1	0	0
A4TGU8	1	1	0	1	0	0
Q66EC9	1	1	0	1	0	0
A0KP37	1	1	0	1	0	0
A4SRH0	1	1	0	1	0	0
A7MKK9	1	1	0	1	0	0
Q6CZS0	1	1	0	1	0	0
A1WYD5	1	1	0	1	0	0
A6TF07	1	1	0	1	0	0
A8GKQ1	1	1	0	1	0	0
A1JSB7	1	1	0	1	0	0
A7FNS9	1	1	0	1	0	0
Q1CCP6	1	1	0	1	0	0
A4TPZ1	1	1	0	1	0	0
Q664M6	1	1	0	1	0	0
A0KQJ4	1	1	0	1	0	0
Q6F8G6	1	1	0	1	0	0
B3GZA0	1	1	0	1	0	0
B0BTC2	1	1	0	1	0	0
A6VPZ6	1	1	0	1	0	0
Q0VQ05	1	1	0	1	0	0
Q0A812	1	1	0	1	0	0
C1DKY7	1	1	0	1	0	0
Q1LTP4	1	1	0	1	0	0

Q7VQG9	1	1	0	1	0	0
Q493N1	1	1	0	1	0	0
Q2KWB0	1	1	0	1	0	0
Q7WMM4	1	1	0	1	0	0
Q7WB57	1	1	0	1	0	0
A9HZV6	1	1	0	1	0	0
Q7VZ77	1	1	0	1	0	0
P57500	1	1	0	1	0	0
Q7NZV7	1	1	0	1	0	0
A8AQS4	1	1	0	1	0	0
A7ZSP4	1	1	0	1	0	0
B7UK79	1	1	0	1	0	0
B7MCY5	1	1	0	1	0	0
B7L4P2	1	1	0	1	0	0
P0AEA9	1	1	0	1	0	0
B5YTS6	1	1	0	1	0	0
B7NMD7	1	1	0	1	0	0
B7N1F1	1	1	0	1	0	0
B7M1S1	1	1	0	1	0	0
C4ZUM4	1	1	0	1	0	0
B1X716	1	1	0	1	0	0
A8A5H5	1	1	0	1	0	0
A1AGQ2	1	1	0	1	0	0
Q0TC92	1	1	0	1	0	0
Q8FCW8	1	1	0	1	0	0
B1IP96	1	1	0	1	0	0
P0AEA8	1	1	0	1	0	0
B7NDX8	1	1	0	1	0	0
B6I2S7	1	1	0	1	0	0
B1LHG9	1	1	0	1	0	0
Q1R5R3	1	1	0	1	0	0
C5BGP8	1	1	0	1	0	0
A4WFH1	1	1	0	1	0	0
B7LS75	1	1	0	1	0	0
A9H259	1	1	0	1	0	0
Q5FP95	1	1	0	1	0	0
Q2SJB7	1	1	0	1	0	0
Q65T49	1	1	0	1	0	0
Q606C9	1	1	0	1	0	0
Q1H3L5	1	1	0	1	0	0
A9LZ77	1	1	0	1	0	0
P57001	1	1	0	1	0	0
P95370	1	1	0	1	0	0
A1KU10	1	1	0	1	0	0
Q0AHC1	1	1	0	1	0	0
Q820Q4	1	1	0	1	0	0

Q2Y6L7	1	1	0	1	0	0
Q3JCS0	1	1	0	1	0	0
Q7N8L2	1	1	0	1	0	0
Q6LM67	1	1	0	1	0	0
Q48H75	1	1	0	1	0	0
Q15YU1	1	1	0	1	0	0
A6V4H6	1	1	0	1	0	0
B7UW11	1	1	0	1	0	0
Q02NA3	1	1	0	1	0	0
Q9I0M7	1	1	0	1	0	0
Q1IBC9	1	1	0	1	0	0
Q4K9V8	1	1	0	1	0	0
C3JY53	1	1	0	1	0	0
Q3ILQ9	1	1	0	1	0	0
A4XUX3	1	1	0	1	0	0
A5W1H7	1	1	0	1	0	0
Q3KA85	1	1	0	1	0	0
Q88FT3	1	1	0	1	0	0
B1JBD9	1	1	0	1	0	0
Q87ZT0	1	1	0	1	0	0
Q4ZRL6	1	1	0	1	0	0
A4VLU6	1	1	0	1	0	0
Q4FSU1	1	1	0	1	0	0
Q1QAX7	1	1	0	1	0	0
A1SRP9	1	1	0	1	0	0
A5WEG6	1	1	0	1	0	0
A1AVU5	1	1	0	1	0	0
Q21K21	1	1	0	1	0	0
B5F8J0	1	1	0	1	0	0
A9MME5	1	1	0	1	0	0
Q57IZ5	1	1	0	1	0	0
B5FJQ1	1	1	0	1	0	0
B5R2C7	1	1	0	1	0	0
B5R7N6	1	1	0	1	0	0
B4TKQ4	1	1	0	1	0	0
B4SVI1	1	1	0	1	0	0
Q5PLV8	1	1	0	1	0	0
A9MT45	1	1	0	1	0	0
C0Q0F3	1	1	0	1	0	0
B5BH22	1	1	0	1	0	0
B4TY38	1	1	0	1	0	0
Q8Z201	1	1	0	1	0	0
P25924	1	1	0	1	0	0
B2U3H4	1	1	0	1	0	0
Q31VS0	1	1	0	1	0	0
Q32AZ8	1	1	0	1	0	0

Q0SZU8	1	1	0	1	0	0
Q83JB3	1	1	0	1	0	0
Q3YWQ3	1	1	0	1	0	0
Q2NVN0	1	1	0	1	0	0
Q31GG8	1	1	0	1	0	0
Q3SG32	1	1	0	1	0	0
B8GUD3	1	1	0	1	0	0
C4LAG5	1	1	0	1	0	0
A5CXE4	1	1	0	1	0	0
B2I985	1	1	0	1	0	0
Q9PF46	1	1	0	1	0	0
B0U4X0	1	1	0	1	0	0
Q87AI5	1	1	0	1	0	0
Q1C2P9	1	1	0	1	0	0
Q74Y23	1	1	0	1	0	0
Q5NRM4	1	1	0	1	0	0
Q9YBL2	0	1	0	1	0	0
Q58DK4	0	1	0	1	0	0
Q3LXA3	0	1	0	1	0	0
Q8VC30	0	1	0	1	0	0
Q9VXJ0	1	0	0	1	0	0
P51659	1	0	0	1	0	0
P51660	1	0	0	1	0	0
P97852	1	0	0	1	0	0
Q64898	0	1	1	0	0	0
P03162	0	1	1	0	0	0
P0C691	0	1	1	0	0	0
Q66403	0	1	1	0	0	0
P28858	0	1	1	0	0	0
Q6S6P1	0	1	1	0	0	0
Q9DKT8	0	1	1	0	0	0
Q9E6N9	0	1	1	0	0	0
P03161	0	1	1	0	0	0
P03158	0	1	1	0	0	0
P03159	0	1	1	0	0	0
P17100	0	1	1	0	0	0
Q02314	0	1	1	0	0	0
Q91C36	0	1	1	0	0	0
O91533	0	1	1	0	0	0
Q4R1S7	0	1	1	0	0	0
Q4R1R9	0	1	1	0	0	0
P17394	0	1	1	0	0	0
P17393	0	1	1	0	0	0
Q9QAB8	0	1	1	0	0	0
P17395	0	1	1	0	0	0
Q9PX62	0	1	1	0	0	0

Q67925	0	1	1	0	0	0
Q9QBF1	0	1	1	0	0	0
P0C676	0	1	1	0	0	0
Q9E6S5	0	1	1	0	0	0
P0C688	0	1	1	0	0	0
Q9YZR5	0	1	1	0	0	0
P12933	0	1	1	0	0	0
P31870	0	1	1	0	0	0
P03157	0	1	1	0	0	0
Q913A7	0	1	1	0	0	0
Q81165	0	1	1	0	0	0
P0C690	0	1	1	0	0	0
Q69028	0	1	1	0	0	0
P12900	0	1	1	0	0	0
P03155	0	1	1	0	0	0
P24024	0	1	1	0	0	0
P03156	0	1	1	0	0	0
Q9QMI1	0	1	1	0	0	0
P0C679	0	1	1	0	0	0
Q67878	0	1	1	0	0	0
O56655	0	1	1	0	0	0
Q69602	0	1	1	0	0	0
Q80IU7	0	1	1	0	0	0
Q9QAW8	0	1	1	0	0	0
Q80IU4	0	1	1	0	0	0
Q05486	0	1	1	0	0	0
Q8JMY4	0	1	1	0	0	0
Q99HS4	0	1	1	0	0	0
Q99HR5	0	1	1	0	0	0
Q69605	0	1	1	0	0	0
Q8QZQ2	0	1	1	0	0	0
Q9IBI4	0	1	1	0	0	0
P87744	0	1	1	0	0	0
Q9YPV8	0	1	1	0	0	0
Q8JMY7	0	1	1	0	0	0
Q8JN08	0	1	1	0	0	0
Q8JMZ7	0	1	1	0	0	0
Q9J5S2	0	1	1	0	0	0
P13846	0	1	1	0	0	0
P04293	0	1	1	0	0	0
P07917	0	1	1	0	0	0
P04292	0	1	1	0	0	0
P09854	0	1	1	0	0	0
P07918	0	1	1	0	0	0
P89453	0	1	1	0	0	0
Q2HRD0	0	1	1	0	0	0

P17192	0	1	1	0	0	0
P30028	0	1	1	0	0	0
P17193	0	1	1	0	0	0
Q6UDK1	0	1	1	0	0	0
P09252	0	1	1	0	0	0
Q4JQU7	0	1	1	0	0	0
P03160	0	1	1	0	0	0
P06275	0	1	1	0	0	0
P12899	0	1	1	0	0	0
P12898	0	1	1	0	0	0
P17396	0	1	1	0	0	0
P11292	0	1	1	0	0	0
O71304	0	1	1	0	0	0
Q05762	1	1	0	0	0	0
Q05763	1	1	0	0	0	0
Q23695	1	1	0	0	0	0
P45350	1	1	0	0	0	0
P16126	1	1	0	0	0	0
P07382	1	1	0	0	0	0
O81395	1	1	0	0	0	0
Q5UQG3	1	1	0	0	0	0
Q2QRX6	1	1	0	0	0	0
Q27828	1	1	0	0	0	0
Q27713	1	1	0	0	0	0
P20712	1	1	0	0	0	0
P13922	1	1	0	0	0	0
O02604	1	1	0	0	0	0
P46103	1	1	0	0	0	0
P51820	1	1	0	0	0	0
Q07422	1	1	0	0	0	0
Q27783	1	1	0	0	0	0
Q27793	1	1	0	0	0	0
A5H0J2	0	0	1	0	0	1
P32528	0	0	1	0	0	1
P40939	1	0	0	1	0	0
Q8BMS1	1	0	0	1	0	0
Q29554	1	0	0	1	0	0
P55100	1	0	0	1	1	0
Q6NYL3	1	0	0	1	1	0
Q08426	1	0	0	1	1	0
Q9DBM2	1	0	0	1	1	0
Q5R5M8	1	0	0	1	1	0
P07896	1	0	0	1	1	0
Q05902	0	1	1	0	0	0
P49872	0	1	1	0	0	0
P16118	0	1	1	0	0	0

P70266	0	1	1	0	0	0
P07953	0	1	1	0	0	0
P26285	0	1	1	0	0	0
O60825	0	1	1	0	0	0
P70265	0	1	1	0	0	0
Q5NVT1	0	1	1	0	0	0
Q9JJH5	0	1	1	0	0	0
Q28901	0	1	1	0	0	0
Q16875	0	1	1	0	0	0
Q5R9C1	0	1	1	0	0	0
O35552	0	1	1	0	0	0
Q16877	0	1	1	0	0	0
Q4R8B6	0	1	1	0	0	0
Q6DTY7	0	1	1	0	0	0
P25114	0	1	1	0	0	0
Q91348	0	1	1	0	0	0
Q9MB58	0	1	1	0	0	0
Q21122	0	1	1	0	0	0
Q91309	0	1	1	0	0	0
A3N3I3	0	0	0	1	1	0
B3H2V8	0	0	0	1	1	0
B0BTG8	0	0	0	1	1	0
A6VPA5	0	0	0	1	1	0
B9JGS3	0	0	0	1	1	0
Q7D235	0	0	0	1	1	0
B9JYL4	0	0	0	1	1	0
Q0VRB5	0	0	0	1	1	0
Q0A8W4	0	0	0	1	1	0
B6ELS3	0	0	0	1	1	0
C1DLY7	0	0	0	1	1	0
Q1LT61	0	0	0	1	1	0
Q7U352	0	0	0	1	1	0
Q492P4	0	0	0	1	1	0
Q89WC3	0	0	0	1	1	0
A5E877	0	0	0	1	1	0
A4YJF9	0	0	0	1	1	0
B2S9G5	0	0	0	1	1	0
Q2YQQ8	0	0	0	1	1	0
Q57A93	0	0	0	1	1	0
A9MA02	0	0	0	1	1	0
C0RG54	0	0	0	1	1	0
P64103	0	0	0	1	1	0
A5VTB9	0	0	0	1	1	0
B0CK19	0	0	0	1	1	0
P64104	0	0	0	1	1	0
B8GVZ8	0	0	0	1	1	0

Q9A246	0	0	0	1	1	0
B0T7B6	0	0	0	1	1	0
B3PK88	0	0	0	1	1	0
Q1R0D9	0	0	0	1	1	0
A8AIC5	0	0	0	1	1	0
Q47Z14	0	0	0	1	1	0
A7MEX0	0	0	0	1	1	0
A7ZK57	0	0	0	1	1	0
B7UN33	0	0	0	1	1	0
B7MHQ6	0	0	0	1	1	0
B7LE54	0	0	0	1	1	0
P0A6Q4	0	0	0	1	1	0
B5YT84	0	0	0	1	1	0
B7NM20	0	0	0	1	1	0
B7MS65	0	0	0	1	1	0
B7M883	0	0	0	1	1	0
C4ZQ80	0	0	0	1	1	0
B1X8Q8	0	0	0	1	1	0
A7ZYQ6	0	0	0	1	1	0
Q0TJA7	0	0	0	1	1	0
Q8FJ83	0	0	0	1	1	0
B1IVX8	0	0	0	1	1	0
P0A6Q3	0	0	0	1	1	0
B7N3B6	0	0	0	1	1	0
B6I928	0	0	0	1	1	0
B1LJQ9	0	0	0	1	1	0
Q1RDR0	0	0	0	1	1	0
C5BD83	0	0	0	1	1	0
A4W8W6	0	0	0	1	1	0
Q6D6D7	0	0	0	1	1	0
B2VDE7	0	0	0	1	1	0
B7LNW4	0	0	0	1	1	0
Q7U343	0	0	0	1	1	0
Q4QKK1	0	0	0	1	1	0
A5UEY7	0	0	0	1	1	0
P45159	0	0	0	1	1	0
B8F8M2	0	0	0	1	1	0
Q0I3F9	0	0	0	1	1	0
Q2S8H5	0	0	0	1	1	0
A1WT00	0	0	0	1	1	0
C4K8W9	0	0	0	1	1	0
Q0BWN5	0	0	0	1	1	0
Q5QYY0	0	0	0	1	1	0
B5XY51	0	0	0	1	1	0
A6T748	0	0	0	1	1	0
Q65TA9	0	0	0	1	1	0

Q0AK52	0	0	0	1	1	0
A6W357	0	0	0	1	1	0
Q11BB9	0	0	0	1	1	0
Q603C9	0	0	0	1	1	0
Q1H026	0	0	0	1	1	0
Q1QS54	0	0	0	1	1	0
Q3J9C3	0	0	0	1	1	0
Q3SWN9	0	0	0	1	1	0
A6WWV7	0	0	0	1	1	0
B6JCR2	0	0	0	1	1	0
Q9CNE8	0	0	0	1	1	0
C6DKY2	0	0	0	1	1	0
Q7MB46	0	0	0	1	1	0
Q6LR96	0	0	0	1	1	0
B4EVD3	0	0	0	1	1	0
Q48K61	0	0	0	1	1	0
Q15UB1	0	0	0	1	1	0
A6V7I3	0	0	0	1	1	0
B7UVB1	0	0	0	1	1	0
Q02K95	0	0	0	1	1	0
O33877	0	0	0	1	1	0
Q1I7M6	0	0	0	1	1	0
Q4KFX0	0	0	0	1	1	0
C3K743	0	0	0	1	1	0
Q3IGG9	0	0	0	1	1	0
A4XV59	0	0	0	1	1	0
A5W140	0	0	0	1	1	0
Q3K8F5	0	0	0	1	1	0
B0KNV6	0	0	0	1	1	0
Q88FC4	0	0	0	1	1	0
B1JAU1	0	0	0	1	1	0
Q883Y6	0	0	0	1	1	0
Q4ZUV9	0	0	0	1	1	0
A4VKR6	0	0	0	1	1	0
Q98BH8	0	0	0	1	1	0
Q92SV8	0	0	0	1	1	0
C3MC75	0	0	0	1	1	0
Q2J2I6	0	0	0	1	1	0
Q07V18	0	0	0	1	1	0
P61450	0	0	0	1	1	0
Q21CG2	0	0	0	1	1	0
Q13EM9	0	0	0	1	1	0
B3QAA3	0	0	0	1	1	0
Q21M18	0	0	0	1	1	0
B5F1V1	0	0	0	1	1	0
A9MHT5	0	0	0	1	1	0

Q57QT6	0	0	0	1	1	0
B5FQZ7	0	0	0	1	1	0
B5QZF7	0	0	0	1	1	0
B5R6C0	0	0	0	1	1	0
B4TDZ4	0	0	0	1	1	0
B4T1Z7	0	0	0	1	1	0
Q5PGD2	0	0	0	1	1	0
A9N6X4	0	0	0	1	1	0
C0Q8D8	0	0	0	1	1	0
B5BBL3	0	0	0	1	1	0
B4TSI0	0	0	0	1	1	0
P64106	0	0	0	1	1	0
P64105	0	0	0	1	1	0
A8GCL5	0	0	0	1	1	0
A1S606	0	0	0	1	1	0
B8E711	0	0	0	1	1	0
A3D5P5	0	0	0	1	1	0
A6WPK1	0	0	0	1	1	0
A9L586	0	0	0	1	1	0
Q12LD1	0	0	0	1	1	0
Q07ZR8	0	0	0	1	1	0
B0TIX2	0	0	0	1	1	0
A3QDY5	0	0	0	1	1	0
Q8EFV9	0	0	0	1	1	0
A8H3Y6	0	0	0	1	1	0
A4Y5X9	0	0	0	1	1	0
B8CPF2	0	0	0	1	1	0
A0KVM1	0	0	0	1	1	0
A8FW54	0	0	0	1	1	0
Q0HJZ4	0	0	0	1	1	0
Q0HW95	0	0	0	1	1	0
A1RKL7	0	0	0	1	1	0
B1KDN5	0	0	0	1	1	0
B2TTU1	0	0	0	1	1	0
Q31YL7	0	0	0	1	1	0
Q32HV2	0	0	0	1	1	0
P0A6Q5	0	0	0	1	1	0
Q3Z3G7	0	0	0	1	1	0
A6UF38	0	0	0	1	1	0
Q2NU74	0	0	0	1	1	0
B4SIF4	0	0	0	1	1	0
B2FLR1	0	0	0	1	1	0
C5BQA1	0	0	0	1	1	0
Q31E87	0	0	0	1	1	0
A5F850	0	0	0	1	1	0
Q9KS00	0	0	0	1	1	0

C3LMG6	0	0	0	1	1	0
Q5E5A9	0	0	0	1	1	0
B5FE24	0	0	0	1	1	0
A7N0M3	0	0	0	1	1	0
Q87PC5	0	0	0	1	1	0
Q8D9H3	0	0	0	1	1	0
Q7M7J5	0	0	0	1	1	0
Q8D2Q4	0	0	0	1	1	0
Q8PGJ2	0	0	0	1	1	0
Q3BP41	0	0	0	1	1	0
Q4UQI1	0	0	0	1	1	0
B0RVP4	0	0	0	1	1	0
Q8PCW9	0	0	0	1	1	0
Q2P7N0	0	0	0	1	1	0
Q5H4V4	0	0	0	1	1	0
B2I7H0	0	0	0	1	1	0
Q9PFT5	0	0	0	1	1	0
B0U452	0	0	0	1	1	0
Q87B86	0	0	0	1	1	0
A1JMS5	0	0	0	1	1	0
A7FJT3	0	0	0	1	1	0
Q1CA31	0	0	0	1	1	0
Q8ZG80	0	0	0	1	1	0
A9R7H1	0	0	0	1	1	0
Q1CGK4	0	0	0	1	1	0
Q66CF3	0	0	0	1	1	0
Q4UL32	1	0	0	1	1	0
Q9ZCZ1	1	0	0	1	1	0
Q68WH7	1	0	0	1	1	0
Q6FF68	1	0	0	1	1	0
B7H1I0	1	0	0	1	1	0
B7I3P1	1	0	0	1	1	0
B2I2J9	1	0	0	1	1	0
B0VLX4	1	0	0	1	1	0
B0VE45	1	0	0	1	1	0
A0KEL1	1	0	0	1	1	0
A4STF2	1	0	0	1	1	0
B6EGU2	1	0	0	1	1	0
A8ACZ4	1	0	0	1	1	0
Q489W3	1	0	0	1	1	0
A7MQP0	1	0	0	1	1	0
A7ZU51	1	0	0	1	1	0
B7UNH4	1	0	0	1	1	0
B7MHD1	1	0	0	1	1	0
B7L9A7	1	0	0	1	1	0
Q8X8I2	1	0	0	1	1	0

B5YY93	1	0	0	1	1	0
B7NV20	1	0	0	1	1	0
B7N2F2	1	0	0	1	1	0
B7M649	1	0	0	1	1	0
C5A020	1	0	0	1	1	0
B1XAK8	1	0	0	1	1	0
A8A6V1	1	0	0	1	1	0
Q0TAL0	1	0	0	1	1	0
Q8FBI2	1	0	0	1	1	0
B1IW61	1	0	0	1	1	0
P21177	1	0	0	1	1	0
B7NFE7	1	0	0	1	1	0
B6I4I6	1	0	0	1	1	0
B1LM32	1	0	0	1	1	0
Q1R466	1	0	0	1	1	0
A4WFX4	1	0	0	1	1	0
Q9F0Y7	1	0	0	1	1	0
Q6DAP5	1	0	0	1	1	0
B7LTY9	1	0	0	1	1	0
Q5QXH7	1	0	0	1	1	0
B5XYH0	1	0	0	1	1	0
A6TGM4	1	0	0	1	1	0
Q7MZ92	1	0	0	1	1	0
Q6LW06	1	0	0	1	1	0
Q48GW3	1	0	0	1	1	0
A6V382	1	0	0	1	1	0
B7UYR6	1	0	0	1	1	0
Q02PH8	1	0	0	1	1	0
Q9HZJ2	1	0	0	1	1	0
Q1I7D4	1	0	0	1	1	0
Q4KFC4	1	0	0	1	1	0
P28793	1	0	0	1	1	0
C3K613	1	0	0	1	1	0
A4XSM8	1	0	0	1	1	0
Q93Q12	1	0	0	1	1	0
A5W6H0	1	0	0	1	1	0
Q3K9D8	1	0	0	1	1	0
B0KH74	1	0	0	1	1	0
Q88L02	1	0	0	1	1	0
Q9AHY3	1	0	0	1	1	0
B1J5A5	1	0	0	1	1	0
Q87ZB2	1	0	0	1	1	0
Q4ZRA0	1	0	0	1	1	0
A4VKA3	1	0	0	1	1	0
Q4FQC6	1	0	0	1	1	0
Q1Q8J9	1	0	0	1	1	0

A5WH99	1	0	0	1	1	0
B5EZW0	1	0	0	1	1	0
Q57HM6	1	0	0	1	1	0
B5QW85	1	0	0	1	1	0
B5RFL6	1	0	0	1	1	0
B4SZ85	1	0	0	1	1	0
Q5PKQ2	1	0	0	1	1	0
A9MYB0	1	0	0	1	1	0
B5BIZ0	1	0	0	1	1	0
B4TNZ1	1	0	0	1	1	0
Q8Z3C6	1	0	0	1	1	0
Q9L6L5	1	0	0	1	1	0
A8G8D1	1	0	0	1	1	0
A1S1I8	1	0	0	1	1	0
B8E3R3	1	0	0	1	1	0
A3CYJ4	1	0	0	1	1	0
A6WHA0	1	0	0	1	1	0
A9KU91	1	0	0	1	1	0
Q08A39	1	0	0	1	1	0
B0TLB9	1	0	0	1	1	0
A3Q8U4	1	0	0	1	1	0
Q8EKR9	1	0	0	1	1	0
A8GYG0	1	0	0	1	1	0
A4Y1B6	1	0	0	1	1	0
B8CH91	1	0	0	1	1	0
A0KR50	1	0	0	1	1	0
A8FP63	1	0	0	1	1	0
Q0HPB7	1	0	0	1	1	0
Q0I0T3	1	0	0	1	1	0
A1RDW6	1	0	0	1	1	0
B1KCZ3	1	0	0	1	1	0
B2TVJ5	1	0	0	1	1	0
Q32A21	1	0	0	1	1	0
Q0SZ36	1	0	0	1	1	0
Q83PG1	1	0	0	1	1	0
Q3YVC1	1	0	0	1	1	0
A5F465	1	0	0	1	1	0
Q9KNI1	1	0	0	1	1	0
C3LSI3	1	0	0	1	1	0
Q5E8X6	1	0	0	1	1	0
B5FEW8	1	0	0	1	1	0
A7N1D2	1	0	0	1	1	0
Q87TN9	1	0	0	1	1	0
B7VGL4	1	0	0	1	1	0
Q8DDK6	1	0	0	1	1	0
Q7MQH9	1	0	0	1	1	0

A1JIG4	1	0	0	1	1	0
A7FDF2	1	0	0	1	1	0
Q1C2C4	1	0	0	1	1	0
B2K0Z6	1	0	0	1	1	0
Q8ZAN0	1	0	0	1	1	0
A9R754	1	0	0	1	1	0
Q1CN99	1	0	0	1	1	0
A4TR27	1	0	0	1	1	0
Q66FR8	1	0	0	1	1	0
B1JP63	1	0	0	1	1	0
A8ADP2	1	0	0	1	1	0
A7MH81	1	0	0	1	1	0
A7ZPF8	1	0	0	1	1	0
B7UFZ8	1	0	0	1	1	0
B7MGV7	1	0	0	1	1	0
B7LBJ5	1	0	0	1	1	0
Q8XCP2	1	0	0	1	1	0
B5YXY4	1	0	0	1	1	0
B7NP24	1	0	0	1	1	0
B7MY16	1	0	0	1	1	0
B7M6M2	1	0	0	1	1	0
C4ZVN2	1	0	0	1	1	0
B1X9L4	1	0	0	1	1	0
A8A2L0	1	0	0	1	1	0
A1ADI8	1	0	0	1	1	0
Q0TFA6	1	0	0	1	1	0
Q8FFG4	1	0	0	1	1	0
B1IXA5	1	0	0	1	1	0
P77399	1	0	0	1	1	0
B7N5V2	1	0	0	1	1	0
B6I6Q4	1	0	0	1	1	0
B1LME7	1	0	0	1	1	0
Q1R972	1	0	0	1	1	0
A4WCW6	1	0	0	1	1	0
Q6D2L7	1	0	0	1	1	0
B7LLD0	1	0	0	1	1	0
Q5QXM1	1	0	0	1	1	0
B5XVW2	1	0	0	1	1	0
A6TC19	1	0	0	1	1	0
C6DAL7	1	0	0	1	1	0
Q7N288	1	0	0	1	1	0
Q6LTK3	1	0	0	1	1	0
B5EZR9	1	0	0	1	1	0
Q57LW6	1	0	0	1	1	0
B5FPN1	1	0	0	1	1	0
B5R3R9	1	0	0	1	1	0

B5RCL3	1	0	0	1	1	0
B4TCA8	1	0	0	1	1	0
B4SZR0	1	0	0	1	1	0
Q5PCX6	1	0	0	1	1	0
A9N453	1	0	0	1	1	0
B5BBA1	1	0	0	1	1	0
B4TQC2	1	0	0	1	1	0
Q8Z4Z0	1	0	0	1	1	0
Q8ZNA7	1	0	0	1	1	0
A8GH86	1	0	0	1	1	0
A1S7L6	1	0	0	1	1	0
A3D684	1	0	0	1	1	0
A6WQ25	1	0	0	1	1	0
Q07ZP8	1	0	0	1	1	0
B0TL21	1	0	0	1	1	0
A3QFP3	1	0	0	1	1	0
Q8ECP7	1	0	0	1	1	0
A4Y897	1	0	0	1	1	0
A0KV76	1	0	0	1	1	0
Q0HKD1	1	0	0	1	1	0
Q0HWN3	1	0	0	1	1	0
A1RI92	1	0	0	1	1	0
B2TWV4	1	0	0	1	1	0
Q31YB7	1	0	0	1	1	0
Q32DJ4	1	0	0	1	1	0
Q0T2E6	1	0	0	1	1	0
Q83QQ0	1	0	0	1	1	0
Q3YZM2	1	0	0	1	1	0
A5F2P2	1	0	0	1	1	0
Q9KT58	1	0	0	1	1	0
Q5E3U1	1	0	0	1	1	0
A7MS61	1	0	0	1	1	0
Q87MM3	1	0	0	1	1	0
Q8DB47	1	0	0	1	1	0
Q7MIS5	1	0	0	1	1	0
A1JK30	1	0	0	1	1	0
A7FGK1	1	0	0	1	1	0
Q1C660	1	0	0	1	1	0
Q8ZD45	1	0	0	1	1	0
Q1CHK2	1	0	0	1	1	0
A4TM82	1	0	0	1	1	0
Q668V1	1	0	0	1	1	0
P34731	1	1	1	1	0	0
Q9UUG0	1	1	1	1	0	0
P34229	1	1	1	1	0	0
P07149	1	1	1	1	0	0

P43098	1	1	0	0	0	0
G8BAW7	1	1	0	0	0	0
P78615	1	1	0	0	0	0
Q5B7V0	1	1	0	0	0	0
Q765N2	1	1	0	0	0	0
P15368	1	1	0	0	0	0
Q10289	1	1	0	0	0	0
P19097	1	1	0	0	0	0
Q71SP7	1	1	1	1	0	0
P12276	1	1	1	1	0	0
P49327	1	1	1	1	0	0
P19096	1	1	1	1	0	0
P12785	0	1	1	1	0	0
Q54YD9	0	1	0	1	0	0
P29251	0	1	0	1	0	0
Q4LB35	0	1	0	1	0	0
P53848	0	1	0	1	0	0
Q6F9E6	1	0	1	0	0	0
A2RVV7	1	0	1	0	0	0
A1R228	1	0	1	0	0	0
Q7WAC0	1	0	1	0	0	0
Q7VZC8	1	0	1	0	0	0
Q47ZE0	1	0	1	0	0	0
Q1J118	1	0	1	0	0	0
Q24ZZ6	1	0	1	0	0	0
Q0RNE2	1	0	1	0	0	0
Q2JCX4	1	0	1	0	0	0
Q39Z32	1	0	1	0	0	0
Q74GN1	1	0	1	0	0	0
Q5V3D9	1	0	1	0	0	0
Q74J95	1	0	1	0	0	0
Q1DA76	1	0	1	0	0	0
A1SED2	1	0	1	0	0	0
A1B5A7	1	0	1	0	0	0
Q48KZ8	1	0	1	0	0	0
A4XTZ3	1	0	1	0	0	0
B0KJG3	1	0	1	0	0	0
Q88LI7	1	0	1	0	0	0
Q87YR0	1	0	1	0	0	0
Q4ZVN1	1	0	1	0	0	0
Q2KCC6	1	0	1	0	0	0
Q989A7	1	0	1	0	0	0
Q92T88	1	0	1	0	0	0
Q0SFQ8	1	0	1	0	0	0
Q167Y9	1	0	1	0	0	0
Q1AXT3	1	0	1	0	0	0

Q5LNV2	1	0	1	0	0	0
A4FI92	1	0	1	0	0	0
A8LWI0	1	0	1	0	0	0
A4X776	1	0	1	0	0	0
A6U669	1	0	1	0	0	0
A5V4U1	1	0	1	0	0	0
Q82QG3	1	0	1	0	0	0
Q0AZF5	1	0	1	0	0	0
Q31HQ4	1	0	1	0	0	0
Q6F8N7	1	0	1	0	0	0
Q9LHH7	1	0	1	0	0	0
A1R451	1	0	1	0	0	0
Q7W4Z7	1	0	1	0	0	0
Q7V VW3	1	0	1	0	0	0
Q47XL6	1	0	1	0	0	0
Q1J0I3	1	0	1	0	0	0
Q24UZ7	1	0	1	0	0	0
Q0RI14	1	0	1	0	0	0
Q2J9L3	1	0	1	0	0	0
Q39WH4	1	0	1	0	0	0
Q74EU7	1	0	1	0	0	0
Q5V630	1	0	1	0	0	0
Q74IM0	1	0	1	0	0	0
Q1D7Y2	1	0	1	0	0	0
A1SMP7	1	0	1	0	0	0
A1BBS1	1	0	1	0	0	0
Q48HJ1	1	0	1	0	0	0
A4XXZ2	1	0	1	0	0	0
B0KLM9	1	0	1	0	0	0
Q88KM5	1	0	1	0	0	0
Q883B5	1	0	1	0	0	0
Q4ZUA4	1	0	1	0	0	0
Q2JZV0	1	0	1	0	0	0
Q987T6	1	0	1	0	0	0
Q92RY3	1	0	1	0	0	0
Q0S375	1	0	1	0	0	0
Q160C1	1	0	1	0	0	0
Q1AVQ0	1	0	1	0	0	0
Q5LT54	1	0	1	0	0	0
A4FP42	1	0	1	0	0	0
A8M449	1	0	1	0	0	0
A4XBC7	1	0	1	0	0	0
A6UB98	1	0	1	0	0	0
A5V807	1	0	1	0	0	0
Q82HR6	1	0	1	0	0	0
Q0AWX5	1	0	1	0	0	0

Q31FY5	1	0	1	0	0	0
O65269	1	0	1	0	0	0
A4XY05	1	0	1	0	0	0
Q160C0	1	0	1	0	0	0
Q1AT41	1	0	1	0	0	0
A5VAA8	1	0	1	0	0	0
O65271	1	0	1	0	0	0
B0C3J3	1	0	1	0	0	0
A9NE96	1	0	1	0	0	0
A1TPZ6	1	0	1	0	0	0
A3M846	1	0	1	0	0	0
A0LRU9	1	0	1	0	0	0
C1F683	1	0	1	0	0	0
A5G1W5	1	0	1	0	0	0
B9MIU6	1	0	1	0	0	0
B7JBX9	1	0	1	0	0	0
B5EJA0	1	0	1	0	0	0
A1W7S2	1	0	1	0	0	0
A3N0Q7	1	0	1	0	0	0
B3GXP3	1	0	1	0	0	0
B0BPI2	1	0	1	0	0	0
A6VMD8	1	0	1	0	0	0
A0KJD4	1	0	1	0	0	0
A4SNM0	1	0	1	0	0	0
Q8UHU0	1	0	1	0	0	0
B2UM17	1	0	1	0	0	0
Q0VQ92	1	0	1	0	0	0
Q0AB42	1	0	1	0	0	0
B6EIM4	1	0	1	0	0	0
A6TPR4	1	0	1	0	0	0
A8MKZ5	1	0	1	0	0	0
B4RV70	1	0	1	0	0	0
B3ESU1	1	0	1	0	0	0
Q2IQE1	1	0	1	0	0	0
A7HDC5	1	0	1	0	0	0
Q5PBL6	1	0	1	0	0	0
Q2GLF2	1	0	1	0	0	0
Q3M9M0	1	0	1	0	0	0
B7GHF9	1	0	1	0	0	0
O67736	1	0	1	0	0	0
A8ESH8	1	0	1	0	0	0
Q5P922	1	0	1	0	0	0
Q9AGP6	1	0	1	0	0	0
A0JTZ0	1	0	1	0	0	0
A8I5P5	1	0	1	0	0	0
B6YRQ9	1	0	1	0	0	0

A1K589	1	0	1	0	0	0
C1DHE7	1	0	1	0	0	0
A7Z6J9	1	0	1	0	0	0
C3P7W0	1	0	1	0	0	0
C3LJV5	1	0	1	0	0	0
A0RIH3	1	0	1	0	0	0
Q81M50	1	0	1	0	0	0
B7JM32	1	0	1	0	0	0
Q731B2	1	0	1	0	0	0
B7IXH2	1	0	1	0	0	0
C1ERQ4	1	0	1	0	0	0
B7HB52	1	0	1	0	0	0
B7HNU4	1	0	1	0	0	0
A7GSJ9	1	0	1	0	0	0
B9IXH4	1	0	1	0	0	0
Q818R5	1	0	1	0	0	0
Q635A3	1	0	1	0	0	0
Q5LAX0	1	0	1	0	0	0
Q64RB7	1	0	1	0	0	0
Q9K966	1	0	1	0	0	0
Q6HDY4	1	0	1	0	0	0
Q65HI8	1	0	1	0	0	0
A8FF15	1	0	1	0	0	0
Q5WCi9	1	0	1	0	0	0
P54382	1	0	1	0	0	0
Q8A7B8	1	0	1	0	0	0
A6L2G2	1	0	1	0	0	0
A9VGW3	1	0	1	0	0	0
A1URL6	1	0	1	0	0	0
Q6G4F1	1	0	1	0	0	0
Q6G0I9	1	0	1	0	0	0
A9IQD2	1	0	1	0	0	0
Q1LTX1	1	0	1	0	0	0
Q6MI74	1	0	1	0	0	0
B8DUV2	1	0	1	0	0	0
A1A171	1	0	1	0	0	0
B3DSS3	1	0	1	0	0	0
Q8G5L6	1	0	1	0	0	0
B7GT00	1	0	1	0	0	0
Q7VRB3	1	0	1	0	0	0
Q493A0	1	0	1	0	0	0
Q2L1G0	1	0	1	0	0	0
Q0SPD8	1	0	1	0	0	0
Q7WJG1	1	0	1	0	0	0
O51057	1	0	1	0	0	0
B7J0W5	1	0	1	0	0	0

Q662Y6	1	0	1	0	0	0
A9ISZ5	1	0	1	0	0	0
C0R292	1	0	1	0	0	0
Q89WX9	1	0	1	0	0	0
A5E8S0	1	0	1	0	0	0
A4YK09	1	0	1	0	0	0
C0ZC05	1	0	1	0	0	0
B2SAP4	1	0	1	0	0	0
Q2YL33	1	0	1	0	0	0
Q578R0	1	0	1	0	0	0
A9MC67	1	0	1	0	0	0
C0RLT3	1	0	1	0	0	0
Q8YCL8	1	0	1	0	0	0
A5VV73	1	0	1	0	0	0
A9WZ75	1	0	1	0	0	0
Q8FVP6	1	0	1	0	0	0
P57557	1	0	1	0	0	0
Q8K979	1	0	1	0	0	0
Q89A92	1	0	1	0	0	0
Q057D7	1	0	1	0	0	0
B1YT42	1	0	1	0	0	0
Q1BHV3	1	0	1	0	0	0
B1JV19	1	0	1	0	0	0
A0K8R4	1	0	1	0	0	0
B4EDU1	1	0	1	0	0	0
Q0BDP0	1	0	1	0	0	0
A9AGS9	1	0	1	0	0	0
A3MLB7	1	0	1	0	0	0
A2SAQ8	1	0	1	0	0	0
Q62IX5	1	0	1	0	0	0
A1V5P2	1	0	1	0	0	0
A3NX53	1	0	1	0	0	0
Q3JQL8	1	0	1	0	0	0
A3NBC0	1	0	1	0	0	0
B2T5N8	1	0	1	0	0	0
Q63SL6	1	0	1	0	0	0
Q39ES6	1	0	1	0	0	0
Q2SXF8	1	0	1	0	0	0
A4JG19	1	0	1	0	0	0
Q13WX0	1	0	1	0	0	0
A4XLE0	1	0	1	0	0	0
A7ZCH3	1	0	1	0	0	0
A7G XK2	1	0	1	0	0	0
A0RQ49	1	0	1	0	0	0
A7I254	1	0	1	0	0	0
A8FLR4	1	0	1	0	0	0

A7H3N3	1	0	1	0	0	0
Q0PA35	1	0	1	0	0	0
A1VZJ8	1	0	1	0	0	0
Q5HUU1	1	0	1	0	0	0
Q3AAY6	1	0	1	0	0	0
B8H4A3	1	0	1	0	0	0
Q9A8Y0	1	0	1	0	0	0
B0T3F7	1	0	1	0	0	0
B3PHG5	1	0	1	0	0	0
A0RTU3	1	0	1	0	0	0
A9WJ10	1	0	1	0	0	0
Q5L644	1	0	1	0	0	0
B8GC39	1	0	1	0	0	0
Q3ASI0	1	0	1	0	0	0
Q823G2	1	0	1	0	0	0
Q254F7	1	0	1	0	0	0
B3ECA6	1	0	1	0	0	0
Q9PKW1	1	0	1	0	0	0
B3EJG9	1	0	1	0	0	0
A1BF67	1	0	1	0	0	0
Q9Z8K3	1	0	1	0	0	0
B9LD23	1	0	1	0	0	0
B0B9I6	1	0	1	0	0	0
B3QUL4	1	0	1	0	0	0
Q3KMU3	1	0	1	0	0	0
B0BB65	1	0	1	0	0	0
O84081	1	0	1	0	0	0
Q1QVV9	1	0	1	0	0	0
Q7NWQ6	1	0	1	0	0	0
A8AJS4	1	0	1	0	0	0
A5CU17	1	0	1	0	0	0
B0RDR2	1	0	1	0	0	0
Q97HC9	1	0	1	0	0	0
A7FT56	1	0	1	0	0	0
C3KT80	1	0	1	0	0	0
A6LU44	1	0	1	0	0	0
B2V4R7	1	0	1	0	0	0
B2TRN5	1	0	1	0	0	0
A5I112	1	0	1	0	0	0
C1FKP7	1	0	1	0	0	0
B1I IW9	1	0	1	0	0	0
A7GCL0	1	0	1	0	0	0
B1KZC8	1	0	1	0	0	0
B8I761	1	0	1	0	0	0
Q189R8	1	0	1	0	0	0
A5N5B5	1	0	1	0	0	0

A0Q0A0	1	0	1	0	0	0
Q0TPD4	1	0	1	0	0	0
Q8XJD7	1	0	1	0	0	0
A9KLS3	1	0	1	0	0	0
Q0SS01	1	0	1	0	0	0
Q894G6	1	0	1	0	0	0
A3DEE6	1	0	1	0	0	0
B5Y9D1	1	0	1	0	0	0
C3PLA3	1	0	1	0	0	0
Q6NIZ6	1	0	1	0	0	0
Q8FRU9	1	0	1	0	0	0
A4QBY8	1	0	1	0	0	0
Q8NSM0	1	0	1	0	0	0
Q4JTI3	1	0	1	0	0	0
B6J5U6	1	0	1	0	0	0
B6J1Z2	1	0	1	0	0	0
A9KGQ5	1	0	1	0	0	0
A9NB47	1	0	1	0	0	0
Q83EK7	1	0	1	0	0	0
A7MJZ6	1	0	1	0	0	0
Q0KBW5	1	0	1	0	0	0
Q472L4	1	0	1	0	0	0
B3R4L6	1	0	1	0	0	0
B1WRW8	1	0	1	0	0	0
B8HXS0	1	0	1	0	0	0
B7KEP3	1	0	1	0	0	0
B7JVV5	1	0	1	0	0	0
Q11UD1	1	0	1	0	0	0
Q47IX6	1	0	1	0	0	0
Q3Z8K6	1	0	1	0	0	0
A5FRF1	1	0	1	0	0	0
Q3ZX43	1	0	1	0	0	0
Q9RW02	1	0	1	0	0	0
A9BWT7	1	0	1	0	0	0
B8FLE5	1	0	1	0	0	0
C6BSL6	1	0	1	0	0	0
C0QAY0	1	0	1	0	0	0
B8J466	1	0	1	0	0	0
Q316P9	1	0	1	0	0	0
C4XLR8	1	0	1	0	0	0
A8ZTQ4	1	0	1	0	0	0
Q6ALZ5	1	0	1	0	0	0
A4J3F5	1	0	1	0	0	0
Q72F91	1	0	1	0	0	0
B8DMA9	1	0	1	0	0	0
A1VGV4	1	0	1	0	0	0

A5EX57	1	0	1	0	0	0
B5YA73	1	0	1	0	0	0
B8E335	1	0	1	0	0	0
A8LIR3	1	0	1	0	0	0
A7ZIT8	1	0	1	0	0	0
B7UKK6	1	0	1	0	0	0
B7ME52	1	0	1	0	0	0
B7L7F6	1	0	1	0	0	0
Q8XCT6	1	0	1	0	0	0
B5YPP4	1	0	1	0	0	0
B7NL23	1	0	1	0	0	0
B7MRJ2	1	0	1	0	0	0
B7M4N2	1	0	1	0	0	0
C4ZUX7	1	0	1	0	0	0
B1XGC7	1	0	1	0	0	0
A7ZXI3	1	0	1	0	0	0
A1A8J4	1	0	1	0	0	0
Q0TKB2	1	0	1	0	0	0
Q8FK41	1	0	1	0	0	0
B1IZ72	1	0	1	0	0	0
P24186	1	0	1	0	0	0
B7N983	1	0	1	0	0	0
B6I0H4	1	0	1	0	0	0
B1LKE8	1	0	1	0	0	0
Q1RF04	1	0	1	0	0	0
C5B8V3	1	0	1	0	0	0
Q3YRE3	1	0	1	0	0	0
Q2GHD8	1	0	1	0	0	0
Q5FG00	1	0	1	0	0	0
Q5HAK8	1	0	1	0	0	0
B2KB67	1	0	1	0	0	0
A4W7J0	1	0	1	0	0	0
Q836W7	1	0	1	0	0	0
Q6D2E6	1	0	1	0	0	0
B2VBD1	1	0	1	0	0	0
Q2N7E3	1	0	1	0	0	0
B7LJI7	1	0	1	0	0	0
C4ZBG7	1	0	1	0	0	0
B1YLQ1	1	0	1	0	0	0
C4L3F6	1	0	1	0	0	0
A7HMQ2	1	0	1	0	0	0
A5FNE3	1	0	1	0	0	0
A6GZM5	1	0	1	0	0	0
B0U009	1	0	1	0	0	0
A8L893	1	0	1	0	0	0
Q14HV5	1	0	1	0	0	0

A7NA91	1	0	1	0	0	0
Q2A535	1	0	1	0	0	0
B2SF67	1	0	1	0	0	0
A0Q505	1	0	1	0	0	0
Q0BNF1	1	0	1	0	0	0
Q5NGF3	1	0	1	0	0	0
A4IYR4	1	0	1	0	0	0
Q8RDM4	1	0	1	0	0	0
Q75TC1	1	0	1	0	0	0
B9M769	1	0	1	0	0	0
A4IQS0	1	0	1	0	0	0
A5GAM5	1	0	1	0	0	0
Q7NJE8	1	0	1	0	0	0
A9HEL1	1	0	1	0	0	0
Q5FST0	1	0	1	0	0	0
A0M554	1	0	1	0	0	0
Q7VM86	1	0	1	0	0	0
Q4QMI7	1	0	1	0	0	0
A5UAS4	1	0	1	0	0	0
A5UHL4	1	0	1	0	0	0
P44313	1	0	1	0	0	0
B8F605	1	0	1	0	0	0
Q0I3S5	1	0	1	0	0	0
B0USU2	1	0	1	0	0	0
Q2SK39	1	0	1	0	0	0
A1WUN4	1	0	1	0	0	0
B8D2H8	1	0	1	0	0	0
Q9HPY4	1	0	1	0	0	0
Q18GK1	1	0	1	0	0	0
C4K7E4	1	0	1	0	0	0
Q17W13	1	0	1	0	0	0
Q7VGF6	1	0	1	0	0	0
B0TFC9	1	0	1	0	0	0
Q1CTU9	1	0	1	0	0	0
Q9ZLQ4	1	0	1	0	0	0
P56467	1	0	1	0	0	0
A9AZP9	1	0	1	0	0	0
A4G352	1	0	1	0	0	0
B4U8W9	1	0	1	0	0	0
Q0BX67	1	0	1	0	0	0
Q5QWH6	1	0	1	0	0	0
A6SVR5	1	0	1	0	0	0
Q28TR2	1	0	1	0	0	0
A6WF54	1	0	1	0	0	0
B5Y0K4	1	0	1	0	0	0
A6T5R4	1	0	1	0	0	0

B2GM30	1	0	1	0	0	0
Q1II76	1	0	1	0	0	0
C5CI88	1	0	1	0	0	0
Q5FJG5	1	0	1	0	0	0
Q03RR1	1	0	1	0	0	0
Q038F9	1	0	1	0	0	0
B3WEY4	1	0	1	0	0	0
Q1G9H1	1	0	1	0	0	0
Q049N0	1	0	1	0	0	0
B2GD67	1	0	1	0	0	0
Q044I0	1	0	1	0	0	0
A8YVX0	1	0	1	0	0	0
Q9CH85	1	0	1	0	0	0
A2RLU5	1	0	1	0	0	0
Q030A3	1	0	1	0	0	0
Q88WM8	1	0	1	0	0	0
A5VKR7	1	0	1	0	0	0
B2G850	1	0	1	0	0	0
Q1WUJ3	1	0	1	0	0	0
Q38XU9	1	0	1	0	0	0
C1D5X9	1	0	1	0	0	0
Q1MPZ8	1	0	1	0	0	0
Q5X5Q9	1	0	1	0	0	0
A5IBF0	1	0	1	0	0	0
Q5ZVZ1	1	0	1	0	0	0
Q5WX38	1	0	1	0	0	0
Q6ADF1	1	0	1	0	0	0
B0S8U6	1	0	1	0	0	0
Q04SB2	1	0	1	0	0	0
Q050D8	1	0	1	0	0	0
B0SRN4	1	0	1	0	0	0
Q72QT3	1	0	1	0	0	0
Q8F523	1	0	1	0	0	0
B1N044	1	0	1	0	0	0
Q03YZ6	1	0	1	0	0	0
Q92BZ4	1	0	1	0	0	0
C1L2R6	1	0	1	0	0	0
Q71ZW2	1	0	1	0	0	0
B8DFW8	1	0	1	0	0	0
Q8Y7C5	1	0	1	0	0	0
A0AIG1	1	0	1	0	0	0
B1HRX9	1	0	1	0	0	0
B9EAY2	1	0	1	0	0	0
Q2VYZ7	1	0	1	0	0	0
A0LE04	1	0	1	0	0	0
Q65RF1	1	0	1	0	0	0

A1U1Q5	1	0	1	0	0	0
Q0ATP0	1	0	1	0	0	0
A6W1T1	1	0	1	0	0	0
Q6F1V0	1	0	1	0	0	0
Q11M18	1	0	1	0	0	0
Q8TK95	1	0	1	0	0	0
A7IAE1	1	0	1	0	0	0
Q46A53	1	0	1	0	0	0
Q12V26	1	0	1	0	0	0
Q9X7F6	1	0	1	0	0	0
Q1GXE6	1	0	1	0	0	0
Q2FR55	1	0	1	0	0	0
Q8PZQ1	1	0	1	0	0	0
A3CWL0	1	0	1	0	0	0
B8GG34	1	0	1	0	0	0
A2SHP8	1	0	1	0	0	0
A0B8J7	1	0	1	0	0	0
B0JUP8	1	0	1	0	0	0
C5C958	1	0	1	0	0	0
Q2RIB4	1	0	1	0	0	0
A0QKM1	1	0	1	0	0	0
B3PMJ8	1	0	1	0	0	0
B1MG21	1	0	1	0	0	0
Q7TWN0	1	0	1	0	0	0
A1KP49	1	0	1	0	0	0
C1AHH2	1	0	1	0	0	0
Q2SRE7	1	0	1	0	0	0
Q6RX33	1	0	1	0	0	0
Q7NAE4	1	0	1	0	0	0
P47259	1	0	1	0	0	0
A4TET2	1	0	1	0	0	0
B8ZUV4	1	0	1	0	0	0
O32879	1	0	1	0	0	0
B2HDR8	1	0	1	0	0	0
Q6KID0	1	0	1	0	0	0
Q6MSL3	1	0	1	0	0	0
Q73UA5	1	0	1	0	0	0
Q8EV80	1	0	1	0	0	0
P75096	1	0	1	0	0	0
Q98QV3	1	0	1	0	0	0
A0QSY5	1	0	1	0	0	0
Q4A6B1	1	0	1	0	0	0
A3PVV6	1	0	1	0	0	0
A1UC75	1	0	1	0	0	0
Q1BCR8	1	0	1	0	0	0
A5U830	1	0	1	0	0	0

O50385	1	0	1	0	0	0
A0PNP3	1	0	1	0	0	0
A1T5D0	1	0	1	0	0	0
Q3IRX3	1	0	1	0	0	0
B2A532	1	0	1	0	0	0
B9L952	1	0	1	0	0	0
Q5F5D0	1	0	1	0	0	0
B4RQN5	1	0	1	0	0	0
A9M068	1	0	1	0	0	0
Q9JWI9	1	0	1	0	0	0
P0C277	1	0	1	0	0	0
A1KWF4	1	0	1	0	0	0
Q2GCV3	1	0	1	0	0	0
Q0AFN2	1	0	1	0	0	0
Q82XC3	1	0	1	0	0	0
Q1QQJ9	1	0	1	0	0	0
A9A4N5	1	0	1	0	0	0
Q2YC56	1	0	1	0	0	0
Q3J8Z0	1	0	1	0	0	0
A6Q2W6	1	0	1	0	0	0
Q3SVE4	1	0	1	0	0	0
Q5YU63	1	0	1	0	0	0
B2J442	1	0	1	0	0	0
Q8Z086	1	0	1	0	0	0
Q2G338	1	0	1	0	0	0
Q8EQ43	1	0	1	0	0	0
A6X610	1	0	1	0	0	0
Q04FB7	1	0	1	0	0	0
B6JAU5	1	0	1	0	0	0
B1ZYH0	1	0	1	0	0	0
A5CF58	1	0	1	0	0	0
B3CTT4	1	0	1	0	0	0
A6L8J2	1	0	1	0	0	0
A7HSV9	1	0	1	0	0	0
Q6MAH4	1	0	1	0	0	0
Q9CJR1	1	0	1	0	0	0
C6DAX0	1	0	1	0	0	0
Q03FZ5	1	0	1	0	0	0
Q3A1Q7	1	0	1	0	0	0
Q3B4E2	1	0	1	0	0	0
B4SGR4	1	0	1	0	0	0
A1AL91	1	0	1	0	0	0
A5D323	1	0	1	0	0	0
Q4FNW1	1	0	1	0	0	0
A9BIV9	1	0	1	0	0	0
B4RE11	1	0	1	0	0	0

Q7MZH1	1	0	1	0	0	0
P51696	1	0	1	0	0	0
Q6LNV7	1	0	1	0	0	0
Q6L046	1	0	1	0	0	0
A1VN60	1	0	1	0	0	0
B1XUA6	1	0	1	0	0	0
Q12A51	1	0	1	0	0	0
A4SWT5	1	0	1	0	0	0
Q7MVE9	1	0	1	0	0	0
B4S820	1	0	1	0	0	0
Q6A6Z2	1	0	1	0	0	0
A3PDH3	1	0	1	0	0	0
A2C3L3	1	0	1	0	0	0
A8G5D8	1	0	1	0	0	0
A2C873	1	0	1	0	0	0
A9BB39	1	0	1	0	0	0
A2BX55	1	0	1	0	0	0
Q31AF6	1	0	1	0	0	0
Q7TVA3	1	0	1	0	0	0
B4F1G5	1	0	1	0	0	0
Q7TUV8	1	0	1	0	0	0
Q7TU81	1	0	1	0	0	0
A2BRP7	1	0	1	0	0	0
Q46K05	1	0	1	0	0	0
A4SER8	1	0	1	0	0	0
Q15R43	1	0	1	0	0	0
A6V726	1	0	1	0	0	0
B7VB83	1	0	1	0	0	0
Q02KT7	1	0	1	0	0	0
Q9I2U6	1	0	1	0	0	0
Q1ICB3	1	0	1	0	0	0
Q4K9J4	1	0	1	0	0	0
Q3IF52	1	0	1	0	0	0
A5W638	1	0	1	0	0	0
Q3K9W7	1	0	1	0	0	0
B1J675	1	0	1	0	0	0
A4VL74	1	0	1	0	0	0
Q4FTX6	1	0	1	0	0	0
Q1QD30	1	0	1	0	0	0
A1SUX5	1	0	1	0	0	0
A5WGG4	1	0	1	0	0	0
Q8ZZK1	1	0	1	0	0	0
A4WMX1	1	0	1	0	0	0
A3MXE6	1	0	1	0	0	0
A1RQQ5	1	0	1	0	0	0
B1YBM2	1	0	1	0	0	0

Q1LP48	1	0	1	0	0	0
B2UFY4	1	0	1	0	0	0
Q8XZ10	1	0	1	0	0	0
A9WM40	1	0	1	0	0	0
Q1MLB6	1	0	1	0	0	0
Q93E15	1	0	1	0	0	0
Q6W210	1	0	1	0	0	0
Q7UNN9	1	0	1	0	0	0
O68031	1	0	1	0	0	0
B6IVC0	1	0	1	0	0	0
Q21WC0	1	0	1	0	0	0
Q2J3Z0	1	0	1	0	0	0
Q07VM6	1	0	1	0	0	0
Q6NCQ6	1	0	1	0	0	0
Q21D98	1	0	1	0	0	0
Q13DA7	1	0	1	0	0	0
B3QA91	1	0	1	0	0	0
Q2RWY4	1	0	1	0	0	0
A3PM50	1	0	1	0	0	0
Q3J049	1	0	1	0	0	0
A4WQ13	1	0	1	0	0	0
B9KLK2	1	0	1	0	0	0
C3PNI9	1	0	1	0	0	0
A8GNK0	1	0	1	0	0	0
A8GW74	1	0	1	0	0	0
Q1RHV0	1	0	1	0	0	0
A8EYV5	1	0	1	0	0	0
Q92HY4	1	0	1	0	0	0
Q4ULM3	1	0	1	0	0	0
A8F1N1	1	0	1	0	0	0
Q9ZD32	1	0	1	0	0	0
C4K0H2	1	0	1	0	0	0
B0BXN7	1	0	1	0	0	0
A8GS71	1	0	1	0	0	0
Q68WL9	1	0	1	0	0	0
A7NHA9	1	0	1	0	0	0
A5V1H2	1	0	1	0	0	0
Q1GE28	1	0	1	0	0	0
A1AXA0	1	0	1	0	0	0
Q21JE9	1	0	1	0	0	0
B5EYE2	1	0	1	0	0	0
A9MLA4	1	0	1	0	0	0
Q57S24	1	0	1	0	0	0
B5FLQ2	1	0	1	0	0	0
B5QUV5	1	0	1	0	0	0
B5R6X5	1	0	1	0	0	0

B4TA94	1	0	1	0	0	0
B4SXP7	1	0	1	0	0	0
Q5PCE5	1	0	1	0	0	0
A9MW26	1	0	1	0	0	0
C0PVJ3	1	0	1	0	0	0
B5BCZ5	1	0	1	0	0	0
Q2S1I0	1	0	1	0	0	0
B4TN64	1	0	1	0	0	0
Q60006	1	0	1	0	0	0
P58688	1	0	1	0	0	0
A8GAY2	1	0	1	0	0	0
A1S4X3	1	0	1	0	0	0
B8E5F1	1	0	1	0	0	0
A3D303	1	0	1	0	0	0
A6WLP9	1	0	1	0	0	0
A9KWH5	1	0	1	0	0	0
Q12L99	1	0	1	0	0	0
Q07ZX6	1	0	1	0	0	0
B0TLV1	1	0	1	0	0	0
A3QFX8	1	0	1	0	0	0
Q8EG21	1	0	1	0	0	0
A8H616	1	0	1	0	0	0
A4Y5I0	1	0	1	0	0	0
B8CRF9	1	0	1	0	0	0
A0KYM1	1	0	1	0	0	0
A8FTH7	1	0	1	0	0	0
Q0HH99	1	0	1	0	0	0
Q0HTK5	1	0	1	0	0	0
A1RL91	1	0	1	0	0	0
B1KLT9	1	0	1	0	0	0
B2TTB0	1	0	1	0	0	0
Q324Y6	1	0	1	0	0	0
Q32JK7	1	0	1	0	0	0
Q0T773	1	0	1	0	0	0
Q83SC8	1	0	1	0	0	0
Q3Z4P8	1	0	1	0	0	0
Q2NV44	1	0	1	0	0	0
Q01X76	1	0	1	0	0	0
A9GW22	1	0	1	0	0	0
Q1GNH1	1	0	1	0	0	0
Q8KN38	1	0	1	0	0	0
Q14NV1	1	0	1	0	0	0
A7X0V3	1	0	1	0	0	0
A6U0N1	1	0	1	0	0	0
Q2FI15	1	0	1	0	0	0
Q2FZJ6	1	0	1	0	0	0

A5IRV0	1	0	1	0	0	0
Q2YX11	1	0	1	0	0	0
Q5HH21	1	0	1	0	0	0
A6QFS2	1	0	1	0	0	0
Q99V34	1	0	1	0	0	0
Q7A697	1	0	1	0	0	0
Q6GI21	1	0	1	0	0	0
Q6GAF0	1	0	1	0	0	0
A8Z1K5	1	0	1	0	0	0
Q8NX95	1	0	1	0	0	0
B9DQ45	1	0	1	0	0	0
Q5HQA7	1	0	1	0	0	0
Q8CPP4	1	0	1	0	0	0
Q4L572	1	0	1	0	0	0
Q49WI7	1	0	1	0	0	0
Q3K2M6	1	0	1	0	0	0
Q8E6M3	1	0	1	0	0	0
Q8E168	1	0	1	0	0	0
Q9K3J6	1	0	1	0	0	0
C0M7V0	1	0	1	0	0	0
B4U1W4	1	0	1	0	0	0
A8AW32	1	0	1	0	0	0
B1W3N7	1	0	1	0	0	0
Q8DVC1	1	0	1	0	0	0
Q99YX2	1	0	1	0	0	0
Q04L84	1	0	1	0	0	0
P0DF88	1	0	1	0	0	0
Q5XB24	1	0	1	0	0	0
Q7CN13	1	0	1	0	0	0
Q1JAV4	1	0	1	0	0	0
Q1JL04	1	0	1	0	0	0
Q1JG29	1	0	1	0	0	0
Q1J5U5	1	0	1	0	0	0
A2RDM9	1	0	1	0	0	0
Q48SM7	1	0	1	0	0	0
Q97RI9	1	0	1	0	0	0
P0DF89	1	0	1	0	0	0
B5XM84	1	0	1	0	0	0
Q8DQD3	1	0	1	0	0	0
A4VZV9	1	0	1	0	0	0
C0MD36	1	0	1	0	0	0
A3CLQ4	1	0	1	0	0	0
A4VTM4	1	0	1	0	0	0
Q5M0P7	1	0	1	0	0	0
Q5M583	1	0	1	0	0	0
Q03LK0	1	0	1	0	0	0

P96050	1	0	1	0	0	0
B9DUU0	1	0	1	0	0	0
Q30RJ0	1	0	1	0	0	0
A6Q815	1	0	1	0	0	0
B2V9R3	1	0	1	0	0	0
Q67NB1	1	0	1	0	0	0
Q2LUP9	1	0	1	0	0	0
Q31Q60	1	0	1	0	0	0
A0LLR2	1	0	1	0	0	0
Q2JT84	1	0	1	0	0	0
Q2JQ25	1	0	1	0	0	0
Q5N421	1	0	1	0	0	0
A5GM31	1	0	1	0	0	0
Q7TTW4	1	0	1	0	0	0
A5GRZ3	1	0	1	0	0	0
Q0IBG9	1	0	1	0	0	0
Q3AYX2	1	0	1	0	0	0
Q3AIB3	1	0	1	0	0	0
Q55626	1	0	1	0	0	0
C5BI30	1	0	1	0	0	0
B7IF42	1	0	1	0	0	0
Q05213	1	0	1	0	0	0
Q8DMU0	1	0	1	0	0	0
Q47LR8	1	0	1	0	0	0
A8F7D6	1	0	1	0	0	0
A6LP88	1	0	1	0	0	0
Q9X288	1	0	1	0	0	0
A5ILJ9	1	0	1	0	0	0
B9KZ23	1	0	1	0	0	0
B1LAQ6	1	0	1	0	0	0
Q72JL7	1	0	1	0	0	0
Q5SJ94	1	0	1	0	0	0
Q8RAD0	1	0	1	0	0	0
Q979W3	1	0	1	0	0	0
B5YJV1	1	0	1	0	0	0
Q3SKX9	1	0	1	0	0	0
B8GNT6	1	0	1	0	0	0
C4LG01	1	0	1	0	0	0
Q73RS2	1	0	1	0	0	0
O83714	1	0	1	0	0	0
B2S3X1	1	0	1	0	0	0
Q10X46	1	0	1	0	0	0
Q83HF0	1	0	1	0	0	0
Q83FS2	1	0	1	0	0	0
C5CXD8	1	0	1	0	0	0
A1WJ68	1	0	1	0	0	0

A5CVZ6	1	0	1	0	0	0
A5F6V4	1	0	1	0	0	0
Q9KQQ6	1	0	1	0	0	0
Q5E3Y1	1	0	1	0	0	0
B5FG69	1	0	1	0	0	0
A7MT09	1	0	1	0	0	0
Q87RB8	1	0	1	0	0	0
B7VL71	1	0	1	0	0	0
Q8DB06	1	0	1	0	0	0
Q7MIX2	1	0	1	0	0	0
Q8D2W0	1	0	1	0	0	0
Q73HK3	1	0	1	0	0	0
B3CLT4	1	0	1	0	0	0
Q7M8X1	1	0	1	0	0	0
Q5GTK9	1	0	1	0	0	0
C0R2N7	1	0	1	0	0	0
Q8PK86	1	0	1	0	0	0
Q3BSP5	1	0	1	0	0	0
Q4UVC7	1	0	1	0	0	0
B0RSB3	1	0	1	0	0	0
Q8P8Q4	1	0	1	0	0	0
Q2P3R1	1	0	1	0	0	0
B2SLG3	1	0	1	0	0	0
Q5H0S4	1	0	1	0	0	0
Q9PAR4	1	0	1	0	0	0
Q87BK4	1	0	1	0	0	0
A1JNX2	1	0	1	0	0	0
A7FL44	1	0	1	0	0	0
Q1C4U4	1	0	1	0	0	0
B2K7N4	1	0	1	0	0	0
Q7CJY7	1	0	1	0	0	0
A9R256	1	0	1	0	0	0
Q1CKX8	1	0	1	0	0	0
A4TP60	1	0	1	0	0	0
Q66DK7	1	0	1	0	0	0
B1JHI9	1	0	1	0	0	0
Q5NP22	1	0	1	0	0	0
Q9CGE3	0	1	1	0	0	0
Q8GJP4	0	1	1	0	0	0
P22414	1	0	0	1	0	0
Q01373	1	0	0	1	0	0
P64150	0	0	1	1	0	0
B0C5D4	0	0	1	1	0	0
Q6FE90	0	0	1	1	0	0
B0VRV3	0	0	1	1	0	0
A0LV85	0	0	1	1	0	0

A5FZ95	0	0	1	1	0	0
B9ME52	0	0	1	1	0	0
B7J8I7	0	0	1	1	0	0
B5ENT6	0	0	1	1	0	0
A1W4G6	0	0	1	1	0	0
A3N3S8	0	0	1	1	0	0
B3GZD6	0	0	1	1	0	0
B0BU16	0	0	1	1	0	0
A6VKA1	0	0	1	1	0	0
A0KEN2	0	0	1	1	0	0
A4STD1	0	0	1	1	0	0
Q8UIH4	0	0	1	1	0	0
B9JZF5	0	0	1	1	0	0
Q0VLB7	0	0	1	1	0	0
Q0A598	0	0	1	1	0	0
B4S2C6	0	0	1	1	0	0
Q3MDP1	0	0	1	1	0	0
O80358	0	0	1	1	0	0
Q5P728	0	0	1	1	0	0
A8IQM5	0	0	1	1	0	0
Q81L04	0	0	1	1	0	0
Q72ZF1	0	0	1	1	0	0
Q817G5	0	0	1	1	0	0
Q633L1	0	0	1	1	0	0
P19210	0	0	1	1	0	0
Q9K855	0	0	1	1	0	0
Q6HCU5	0	0	1	1	0	0
Q65G93	0	0	1	1	0	0
Q5WEG7	0	0	1	1	0	0
O34403	0	0	1	1	0	0
A1UU20	0	0	1	1	0	0
Q6G4T2	0	0	1	1	0	0
Q6G0L3	0	0	1	1	0	0
A9IN26	0	0	1	1	0	0
Q1LTS6	0	0	1	1	0	0
Q6ML45	0	0	1	1	0	0
B2IE81	0	0	1	1	0	0
Q2KYB7	0	0	1	1	0	0
Q7W185	0	0	1	1	0	0
A9I6Y3	0	0	1	1	0	0
Q7VUG7	0	0	1	1	0	0
Q89WC9	0	0	1	1	0	0
A5E887	0	0	1	1	0	0
A4YJG9	0	0	1	1	0	0
C0Z7Z0	0	0	1	1	0	0
B2S9T2	0	0	1	1	0	0

Q2YQP8	0	0	1	1	0	0
Q57A83	0	0	1	1	0	0
A9MAB2	0	0	1	1	0	0
C0RG65	0	0	1	1	0	0
Q8YED2	0	0	1	1	0	0
A5VTD0	0	0	1	1	0	0
Q8FXR6	0	0	1	1	0	0
B1YN48	0	0	1	1	0	0
Q1BTH0	0	0	1	1	0	0
A0KAM1	0	0	1	1	0	0
B4EAR7	0	0	1	1	0	0
A9AEZ2	0	0	1	1	0	0
A2S6C0	0	0	1	1	0	0
Q62FC7	0	0	1	1	0	0
A1UZN2	0	0	1	1	0	0
A3NRA1	0	0	1	1	0	0
Q3JW82	0	0	1	1	0	0
A3N5K5	0	0	1	1	0	0
B2JCP3	0	0	1	1	0	0
B2SXG9	0	0	1	1	0	0
Q63XL4	0	0	1	1	0	0
Q39CU4	0	0	1	1	0	0
Q2T1B3	0	0	1	1	0	0
A4JHZ1	0	0	1	1	0	0
Q145W8	0	0	1	1	0	0
Q3ABL4	0	0	1	1	0	0
B8GVY4	0	0	1	1	0	0
Q9A259	0	0	1	1	0	0
B0T7D1	0	0	1	1	0	0
B3PG51	0	0	1	1	0	0
A9WDC2	0	0	1	1	0	0
B8G9X1	0	0	1	1	0	0
Q7NQS5	0	0	1	1	0	0
A8ARM2	0	0	1	1	0	0
Q48AD4	0	0	1	1	0	0
C3PH91	0	0	1	1	0	0
Q6NGH4	0	0	1	1	0	0
Q8FP17	0	0	1	1	0	0
A4QFD9	0	0	1	1	0	0
Q8NNV7	0	0	1	1	0	0
Q4JUY8	0	0	1	1	0	0
B1VG60	0	0	1	1	0	0
A7MQ97	0	0	1	1	0	0
Q0KEP4	0	0	1	1	0	0
Q476F5	0	0	1	1	0	0
B2AGU2	0	0	1	1	0	0

B1WTF7	0	0	1	1	0	0
B7K1T1	0	0	1	1	0	0
Q479M6	0	0	1	1	0	0
Q9RX22	0	0	1	1	0	0
C6BUX8	0	0	1	1	0	0
B8FU83	0	0	1	1	0	0
Q24XW2	0	0	1	1	0	0
Q6APT2	0	0	1	1	0	0
A4J4X3	0	0	1	1	0	0
Q726D5	0	0	1	1	0	0
A5EXK6	0	0	1	1	0	0
A8L NK8	0	0	1	1	0	0
A7ZTI6	0	0	1	1	0	0
B7ULJ0	0	0	1	1	0	0
B7MFJ6	0	0	1	1	0	0
B7L758	0	0	1	1	0	0
P64148	0	0	1	1	0	0
B5YWD3	0	0	1	1	0	0
B7NPE1	0	0	1	1	0	0
B7N2X1	0	0	1	1	0	0
B7M4B9	0	0	1	1	0	0
C4ZXM7	0	0	1	1	0	0
B1X969	0	0	1	1	0	0
A8A697	0	0	1	1	0	0
A1AHG8	0	0	1	1	0	0
Q0TBH4	0	0	1	1	0	0
Q8FC87	0	0	1	1	0	0
B1IZF8	0	0	1	1	0	0
P05523	0	0	1	1	0	0
B7NET9	0	0	1	1	0	0
B6I3L2	0	0	1	1	0	0
B1LK72	0	0	1	1	0	0
Q1R4V8	0	0	1	1	0	0
C5B9D8	0	0	1	1	0	0
A4W514	0	0	1	1	0	0
Q837G3	0	0	1	1	0	0
Q6DAV4	0	0	1	1	0	0
B2VF70	0	0	1	1	0	0
Q2N7Y8	0	0	1	1	0	0
B7LVJ6	0	0	1	1	0	0
B1YKA0	0	0	1	1	0	0
C4L470	0	0	1	1	0	0
A8L594	0	0	1	1	0	0
Q5NGY3	0	0	1	1	0	0
Q5KWC3	0	0	1	1	0	0
Q39WD1	0	0	1	1	0	0

B9M5V2	0	0	1	1	0	0
Q74EG5	0	0	1	1	0	0
A5G7Q9	0	0	1	1	0	0
Q7NFW7	0	0	1	1	0	0
A9HI30	0	0	1	1	0	0
Q5FN17	0	0	1	1	0	0
Q7VN67	0	0	1	1	0	0
Q4QLW2	0	0	1	1	0	0
A5UDC3	0	0	1	1	0	0
A5UI87	0	0	1	1	0	0
P44948	0	0	1	1	0	0
B8F586	0	0	1	1	0	0
Q0I0X6	0	0	1	1	0	0
B0UUX0	0	0	1	1	0	0
Q2SPF3	0	0	1	1	0	0
A1WZG2	0	0	1	1	0	0
B0TER7	0	0	1	1	0	0
A9B0X2	0	0	1	1	0	0
A4G916	0	0	1	1	0	0
Q5QZC1	0	0	1	1	0	0
A6T2R7	0	0	1	1	0	0
Q28JI5	0	0	1	1	0	0
A6W7S6	0	0	1	1	0	0
B5XTG8	0	0	1	1	0	0
A6TFM6	0	0	1	1	0	0
Q5FIV8	0	0	1	1	0	0
Q1G9A3	0	0	1	1	0	0
Q049F3	0	0	1	1	0	0
Q041U1	0	0	1	1	0	0
A8YWE6	0	0	1	1	0	0
Q74IB5	0	0	1	1	0	0
Q9CIK4	0	0	1	1	0	0
P42371	0	0	1	1	0	0
Q88WV4	0	0	1	1	0	0
Q1WUN7	0	0	1	1	0	0
Q38VS5	0	0	1	1	0	0
C1DBB4	0	0	1	1	0	0
Q5X7I9	0	0	1	1	0	0
Q5ZY18	0	0	1	1	0	0
Q5WYY6	0	0	1	1	0	0
Q6AFJ3	0	0	1	1	0	0
B1Y3P5	0	0	1	1	0	0
Q92BF1	0	0	1	1	0	0
Q71ZA3	0	0	1	1	0	0
Q8Y6W7	0	0	1	1	0	0
A0L837	0	0	1	1	0	0

Q65R59	0	0	1	1	0	0
A1U749	0	0	1	1	0	0
A6VSY6	0	0	1	1	0	0
Q11AV8	0	0	1	1	0	0
B7KN75	0	0	1	1	0	0
Q602J1	0	0	1	1	0	0
A9W8R7	0	0	1	1	0	0
Q1H3I3	0	0	1	1	0	0
B8IIZ9	0	0	1	1	0	0
B1ZGU8	0	0	1	1	0	0
B1LWY6	0	0	1	1	0	0
B0UR68	0	0	1	1	0	0
B8EKR5	0	0	1	1	0	0
Q5UQ00	0	0	1	1	0	0
Q2RHE9	0	0	1	1	0	0
A0QJ66	0	0	1	1	0	0
B1MDL2	0	0	1	1	0	0
P64151	0	0	1	1	0	0
A1KMR9	0	0	1	1	0	0
C1AG40	0	0	1	1	0	0
P55825	0	0	1	1	0	0
A4TE57	0	0	1	1	0	0
B8ZRZ2	0	0	1	1	0	0
O69470	0	0	1	1	0	0
B2HJJ6	0	0	1	1	0	0
Q6KHS0	0	0	1	1	0	0
Q73VL9	0	0	1	1	0	0
P75402	0	0	1	1	0	0
Q98QQ1	0	0	1	1	0	0
A0QV21	0	0	1	1	0	0
A3PXU1	0	0	1	1	0	0
A1UED7	0	0	1	1	0	0
Q1BAM5	0	0	1	1	0	0
A5U6T0	0	0	1	1	0	0
A0PQ49	0	0	1	1	0	0
A1T737	0	0	1	1	0	0
Q5F8Z9	0	0	1	1	0	0
P57014	0	0	1	1	0	0
P55044	0	0	1	1	0	0
Q0AD66	0	0	1	1	0	0
Q82S12	0	0	1	1	0	0
Q2YBI1	0	0	1	1	0	0
Q3J7U5	0	0	1	1	0	0
Q3SWN3	0	0	1	1	0	0
Q5YS09	0	0	1	1	0	0
A1SLU7	0	0	1	1	0	0

B2J5G0	0	0	1	1	0	0
Q8YP80	0	0	1	1	0	0
Q2GAT0	0	0	1	1	0	0
Q8EPE6	0	0	1	1	0	0
B6JCQ7	0	0	1	1	0	0
A1BAN2	0	0	1	1	0	0
A7HZC4	0	0	1	1	0	0
Q6MCT3	0	0	1	1	0	0
P57910	0	0	1	1	0	0
Q8VW76	0	0	1	1	0	0
C6DIB8	0	0	1	1	0	0
Q03GC2	0	0	1	1	0	0
Q3A3F2	0	0	1	1	0	0
A1AV29	0	0	1	1	0	0
A5D0T6	0	0	1	1	0	0
B4RC43	0	0	1	1	0	0
Q7MY36	0	0	1	1	0	0
Q6LVN0	0	0	1	1	0	0
A1VKP2	0	0	1	1	0	0
B1XS61	0	0	1	1	0	0
Q12DZ5	0	0	1	1	0	0
A3PB53	0	0	1	1	0	0
A2C0H4	0	0	1	1	0	0
A8G2Y9	0	0	1	1	0	0
A9BDY5	0	0	1	1	0	0
A2BUV8	0	0	1	1	0	0
Q31CK0	0	0	1	1	0	0
Q7VDK6	0	0	1	1	0	0
B4F0X6	0	0	1	1	0	0
Q7V8Y5	0	0	1	1	0	0
Q7V2X4	0	0	1	1	0	0
A2BPD1	0	0	1	1	0	0
Q46H41	0	0	1	1	0	0
Q48CK1	0	0	1	1	0	0
Q15ZV5	0	0	1	1	0	0
A6UYG0	0	0	1	1	0	0
B7V2S0	0	0	1	1	0	0
Q02U58	0	0	1	1	0	0
Q9L7T2	0	0	1	1	0	0
Q1IGF3	0	0	1	1	0	0
Q4K4A5	0	0	1	1	0	0
C3K3N6	0	0	1	1	0	0
A4Y028	0	0	1	1	0	0
A5WAF9	0	0	1	1	0	0
Q3K566	0	0	1	1	0	0
B0KN79	0	0	1	1	0	0

Q88CQ5	0	0	1	1	0	0
B1J2M4	0	0	1	1	0	0
Q88AH6	0	0	1	1	0	0
Q4ZM34	0	0	1	1	0	0
A4VRM9	0	0	1	1	0	0
Q4FUU7	0	0	1	1	0	0
A1SR12	0	0	1	1	0	0
Q1LRP7	0	0	1	1	0	0
B2UES0	0	0	1	1	0	0
Q8Y2D7	0	0	1	1	0	0
B3PZ93	0	0	1	1	0	0
Q2KDA9	0	0	1	1	0	0
Q1MMD9	0	0	1	1	0	0
Q98BG6	0	0	1	1	0	0
B5ZYK9	0	0	1	1	0	0
Q59752	0	0	1	1	0	0
C3MCY7	0	0	1	1	0	0
B6IVU4	0	0	1	1	0	0
C0ZXQ5	0	0	1	1	0	0
Q21XW7	0	0	1	1	0	0
C1B2Q5	0	0	1	1	0	0
Q2J2I0	0	0	1	1	0	0
Q07UF4	0	0	1	1	0	0
Q6NDM1	0	0	1	1	0	0
Q21CD4	0	0	1	1	0	0
Q13EN7	0	0	1	1	0	0
B3Q620	0	0	1	1	0	0
Q2RMQ2	0	0	1	1	0	0
A3PFL2	0	0	1	1	0	0
Q3IY64	0	0	1	1	0	0
A4WVR6	0	0	1	1	0	0
B9KQJ9	0	0	1	1	0	0
Q0S2E0	0	0	1	1	0	0
C3PLF5	0	0	1	1	0	0
A8GXR0	0	0	1	1	0	0
Q1RJY6	0	0	1	1	0	0
A8EZP5	0	0	1	1	0	0
Q92GT4	0	0	1	1	0	0
Q4UMW5	0	0	1	1	0	0
A8F2H0	0	0	1	1	0	0
C4K2K4	0	0	1	1	0	0
B0BUU0	0	0	1	1	0	0
A8GTA0	0	0	1	1	0	0
A7NQM8	0	0	1	1	0	0
Q16DL0	0	0	1	1	0	0
A5UUN1	0	0	1	1	0	0

Q5LWT9	0	0	1	1	0	0
Q1GC55	0	0	1	1	0	0
A1AW02	0	0	1	1	0	0
Q21EE3	0	0	1	1	0	0
A4FMJ7	0	0	1	1	0	0
B5XE0	0	0	1	1	0	0
A8M661	0	0	1	1	0	0
A9MKN9	0	0	1	1	0	0
Q57IA7	0	0	1	1	0	0
B5FM59	0	0	1	1	0	0
B5R5F9	0	0	1	1	0	0
B5RGF2	0	0	1	1	0	0
B4T9C0	0	0	1	1	0	0
B4SXD7	0	0	1	1	0	0
Q5PC09	0	0	1	1	0	0
A9MVN0	0	0	1	1	0	0
C0Q1W8	0	0	1	1	0	0
B5BI09	0	0	1	1	0	0
B4TZX7	0	0	1	1	0	0
Q8Z2H2	0	0	1	1	0	0
A4X4F8	0	0	1	1	0	0
O54326	0	0	1	1	0	0
Q9X981	0	0	1	1	0	0
A8GLE2	0	0	1	1	0	0
A1S1S3	0	0	1	1	0	0
B8EDQ9	0	0	1	1	0	0
A3CYP7	0	0	1	1	0	0
A6WUE9	0	0	1	1	0	0
A9KW47	0	0	1	1	0	0
Q12SR9	0	0	1	1	0	0
B0TN04	0	0	1	1	0	0
A3QJA8	0	0	1	1	0	0
Q8E8D9	0	0	1	1	0	0
A8HA27	0	0	1	1	0	0
B8CVD1	0	0	1	1	0	0
A0L2N2	0	0	1	1	0	0
Q0HDC3	0	0	1	1	0	0
Q0HPK4	0	0	1	1	0	0
A1RE25	0	0	1	1	0	0
B1KL38	0	0	1	1	0	0
B2TTU9	0	0	1	1	0	0
Q31UZ1	0	0	1	1	0	0
Q329M2	0	0	1	1	0	0
Q0SYG3	0	0	1	1	0	0
P64149	0	0	1	1	0	0
Q3YVZ7	0	0	1	1	0	0

A6UFF8	0	0	1	1	0	0
Q2NQU4	0	0	1	1	0	0
Q01RU9	0	0	1	1	0	0
Q1GN82	0	0	1	1	0	0
A5VG06	0	0	1	1	0	0
Q3K028	0	0	1	1	0	0
P64152	0	0	1	1	0	0
P64153	0	0	1	1	0	0
Q82JU0	0	0	1	1	0	0
Q9ZBQ6	0	0	1	1	0	0
B1VYY1	0	0	1	1	0	0
B4SRN0	0	0	1	1	0	0
B2FU49	0	0	1	1	0	0
P55045	0	0	1	1	0	0
Q9A131	0	0	1	1	0	0
P0DB14	0	0	1	1	0	0
Q5XDE4	0	0	1	1	0	0
Q8P250	0	0	1	1	0	0
Q48UU6	0	0	1	1	0	0
Q97R61	0	0	1	1	0	0
P0DB15	0	0	1	1	0	0
Q8DQ33	0	0	1	1	0	0
Q5M0P0	0	0	1	1	0	0
Q5M576	0	0	1	1	0	0
Q67R59	0	0	1	1	0	0
P95744	0	0	1	1	0	0
Q08079	0	0	1	1	0	0
Q7U4V2	0	0	1	1	0	0
Q0AVE3	0	0	1	1	0	0
P74290	0	0	1	1	0	0
C5BLG1	0	0	1	1	0	0
P59065	0	0	1	1	0	0
Q47S77	0	0	1	1	0	0
B9L1Z5	0	0	1	1	0	0
Q72HN2	0	0	1	1	0	0
O50606	0	0	1	1	0	0
Q31EB2	0	0	1	1	0	0
Q3SLR9	0	0	1	1	0	0
B8GUQ6	0	0	1	1	0	0
Q117D2	0	0	1	1	0	0
Q9PQ76	0	0	1	1	0	0
C5CYZ1	0	0	1	1	0	0
A5CX90	0	0	1	1	0	0
A5F407	0	0	1	1	0	0
Q9KVC5	0	0	1	1	0	0
C3LQI3	0	0	1	1	0	0

Q5E8M1	0	0	1	1	0	0
B5FFG1	0	0	1	1	0	0
A7MSN3	0	0	1	1	0	0
Q87T81	0	0	1	1	0	0
B7VHK6	0	0	1	1	0	0
Q8DDY4	0	0	1	1	0	0
Q7MPS3	0	0	1	1	0	0
Q73G10	0	0	1	1	0	0
B3CM71	0	0	1	1	0	0
Q5GS47	0	0	1	1	0	0
C0R4I6	0	0	1	1	0	0
Q8PEQ4	0	0	1	1	0	0
Q3BM92	0	0	1	1	0	0
Q4UNU6	0	0	1	1	0	0
B0RZ50	0	0	1	1	0	0
Q8P3C4	0	0	1	1	0	0
Q2P8V2	0	0	1	1	0	0
B2STU3	0	0	1	1	0	0
Q5H667	0	0	1	1	0	0
A7IKJ3	0	0	1	1	0	0
P64154	0	0	1	1	0	0
P64155	0	0	1	1	0	0
A1JHR7	0	0	1	1	0	0
A7FCT7	0	0	1	1	0	0
Q1C270	0	0	1	1	0	0
B2JYN6	0	0	1	1	0	0
Q8ZJP0	0	0	1	1	0	0
A9R677	0	0	1	1	0	0
Q1CD05	0	0	1	1	0	0
A4TSD4	0	0	1	1	0	0
Q66GD3	0	0	1	1	0	0
Q9YH58	0	1	0	1	0	0
Q54JL3	0	1	0	1	0	0
O95954	0	1	0	1	0	0
Q91XD4	0	1	0	1	0	0
P53603	0	1	0	1	0	0
O88618	0	1	0	1	0	0
O95479	1	0	1	0	0	0
Q8CFX1	1	0	1	0	0	0
P56201	1	0	1	0	0	0
Q8VYW6	0	1	1	0	0	0
Q680I5	0	1	1	0	0	0
Q9M0G0	0	1	1	0	0	0
Q2PQH8	0	1	1	0	0	0
A8BQB4	0	1	1	0	0	0
P35573	0	1	1	0	0	0

P19440	0	1	1	0	0	0
Q60928	0	1	1	0	0	0
P20735	0	1	1	0	0	0
P07314	0	1	1	0	0	0
Q9US04	0	1	1	0	0	0
P36268	0	1	1	0	0	0
O14194	0	1	1	0	0	0
A6NGU5	0	1	1	0	0	0
P36269	0	1	1	0	0	0
Q9Z2A9	0	1	1	0	0	0
Q9QWE9	0	1	1	0	0	0
A7YWM1	0	1	1	0	0	0
Q6P531	0	1	1	0	0	0
Q6PDE7	0	1	1	0	0	0
Q6IE08	0	1	1	0	0	0
Q0V8L2	0	1	1	0	0	0
Q9UJ14	0	1	1	0	0	0
Q99JP7	0	1	1	0	0	0
Q99MZ4	0	1	1	0	0	0
P63186	0	1	1	0	0	0
P54422	0	1	1	0	0	0
P18956	0	1	1	0	0	0
Q9I406	0	1	1	0	0	0
P36267	0	1	1	0	0	0
P74181	0	1	1	0	0	0
Q7TQ49	0	1	1	0	0	0
Q9Y223	0	1	1	0	0	0
Q91WG8	0	1	1	0	0	0
Q9QY94	0	0	0	1	0	1
P15103	0	0	0	1	0	1
Q8HZM5	0	0	0	1	0	1
P16580	0	0	0	1	0	1
P04773	0	0	0	1	0	1
P15104	0	0	0	1	0	1
Q4R7U3	0	0	0	1	0	1
P15105	0	0	0	1	0	1
P46410	0	0	0	1	0	1
P09606	0	0	0	1	0	1
P51121	0	0	0	1	0	1
D3DKC4	0	1	0	1	0	0
Q93112	0	1	0	1	0	0
Q93113	0	1	0	1	0	0
P34345	1	1	0	0	0	0
P78417	1	1	0	0	0	0
O09131	1	1	0	0	0	0
Q9N1F5	1	1	0	0	0	0

Q9Z339	1	1	0	0	0	0
A8XT16	1	1	0	0	0	0
P34277	1	1	0	0	0	0
Q9H4Y5	1	1	0	0	0	0
Q8K2Q2	1	1	0	0	0	0
Q6AXV9	1	1	0	0	0	0
P81124	1	1	0	0	0	0
P30104	0	1	0	1	0	0
P67804	0	1	0	1	0	0
P20432	0	1	0	1	0	0
P30106	0	1	0	1	0	0
P48239	1	1	0	0	0	0
Q59294	0	1	0	1	0	0
O74712	1	0	1	0	0	0
O13471	1	0	1	0	0	0
P07685	1	0	1	0	0	0
P45353	1	0	1	0	0	0
Q12670	1	0	1	0	0	0
P00815	1	0	1	0	0	0
A3N3W1	0	0	1	1	0	0
B3GZG9	0	0	1	1	0	0
B0BU51	0	0	1	1	0	0
A6VM11	0	0	1	1	0	0
Q5LB00	0	0	1	1	0	0
Q64RE9	0	0	1	1	0	0
Q8ABA7	0	0	1	1	0	0
Q1LT69	0	0	1	1	0	0
Q7VQW8	0	0	1	1	0	0
B8D8Q4	0	0	1	1	0	0
P57203	0	0	1	1	0	0
Q9ZHE4	0	0	1	1	0	0
B8D708	0	0	1	1	0	0
P59454	0	0	1	1	0	0
A8FNR1	0	0	1	1	0	0
A7H5U9	0	0	1	1	0	0
Q9PM76	0	0	1	1	0	0
A1W1K1	0	0	1	1	0	0
Q5HSJ2	0	0	1	1	0	0
Q47XB6	0	0	1	1	0	0
Q9S5G5	0	0	1	1	0	0
Q8FG50	0	0	1	1	0	0
P06987	0	0	1	1	0	0
Q6D409	0	0	1	1	0	0
Q4QN72	0	0	1	1	0	0
A5UA18	0	0	1	1	0	0
A5UGY3	0	0	1	1	0	0

P44327	0	0	1	1	0	0
A6TBC5	0	0	1	1	0	0
Q5X5X1	0	0	1	1	0	0
Q5ZW89	0	0	1	1	0	0
Q5WX93	0	0	1	1	0	0
Q65RB3	0	0	1	1	0	0
P57920	0	0	1	1	0	0
Q7N6I2	0	0	1	1	0	0
P62455	0	0	1	1	0	0
Q15RU7	0	0	1	1	0	0
Q5PDP5	0	0	1	1	0	0
Q8Z5J8	0	0	1	1	0	0
P10368	0	0	1	1	0	0
Q8EFB3	0	0	1	1	0	0
Q83R05	0	0	1	1	0	0
Q2NTX3	0	0	1	1	0	0
B4STN9	0	0	1	1	0	0
B2FPM1	0	0	1	1	0	0
Q9KSX1	0	0	1	1	0	0
Q87QK9	0	0	1	1	0	0
Q8D8Q2	0	0	1	1	0	0
Q7MLS4	0	0	1	1	0	0
P58881	0	0	1	1	0	0
Q3BUF5	0	0	1	1	0	0
Q4UU42	0	0	1	1	0	0
B0RSL6	0	0	1	1	0	0
P58882	0	0	1	1	0	0
Q2P3K1	0	0	1	1	0	0
B2SKN6	0	0	1	1	0	0
Q5H0K9	0	0	1	1	0	0
B2I5X9	0	0	1	1	0	0
Q9PBC7	0	0	1	1	0	0
B0U3B1	0	0	1	1	0	0
Q87C31	0	0	1	1	0	0
Q8ZFX7	0	0	1	1	0	0
Q66C51	0	0	1	1	0	0
Q7N6I1	1	1	0	0	0	0
Q46978	0	0	0	1	1	0
Q9RPU5	0	0	0	1	1	0
O73888	0	1	0	0	1	0
O60760	0	1	0	0	1	0
Q9JHF7	0	1	0	0	1	0
O35543	0	1	0	0	1	0
Q8YD09	0	0	1	1	0	0
B9JF01	0	1	0	1	0	0
Q8UFF4	0	1	0	1	0	0

B9JW91	0	1	0	1	0	0
Q2IQG8	0	1	0	1	0	0
A7HDA2	0	1	0	1	0	0
A8ER37	0	1	0	1	0	0
A8IBL6	0	1	0	1	0	0
A1USA2	0	1	0	1	0	0
Q6G3Z8	0	1	0	1	0	0
Q6G164	0	1	0	1	0	0
A9IS87	0	1	0	1	0	0
Q89LQ8	0	1	0	1	0	0
A5EIY9	0	1	0	1	0	0
A4YUQ7	0	1	0	1	0	0
Q2YPW1	0	1	0	1	0	0
Q57D18	0	1	0	1	0	0
Q8YHD8	0	1	0	1	0	0
A5VQP4	0	1	0	1	0	0
Q8G0H4	0	1	0	1	0	0
A7ZCQ2	0	1	0	1	0	0
A7GZI1	0	1	0	1	0	0
A0RN28	0	1	0	1	0	0
A7I1V2	0	1	0	1	0	0
A8FNR8	0	1	0	1	0	0
A7H5V8	0	1	0	1	0	0
Q9PM68	0	1	0	1	0	0
A1W1K9	0	1	0	1	0	0
Q5HSI4	0	1	0	1	0	0
B9KEX3	0	1	0	1	0	0
B8GW85	0	1	0	1	0	0
Q9A7I5	0	1	0	1	0	0
A5CTY4	0	1	0	1	0	0
B1I0S9	0	1	0	1	0	0
Q310X3	0	1	0	1	0	0
C4XSW4	0	1	0	1	0	0
Q6ARN9	0	1	0	1	0	0
Q72C30	0	1	0	1	0	0
A1VDX6	0	1	0	1	0	0
A8LKV5	0	1	0	1	0	0
Q2NAE1	0	1	0	1	0	0
Q5FQD6	0	1	0	1	0	0
Q0BTD5	0	1	0	1	0	0
Q17WU1	0	1	0	1	0	0
Q7VFU3	0	1	0	1	0	0
B6JL03	0	1	0	1	0	0
B5Z6H4	0	1	0	1	0	0
Q1CU78	0	1	0	1	0	0
Q9ZM19	0	1	0	1	0	0

B2USR1	0	1	0	1	0	0
O25664	0	1	0	1	0	0
Q0C0N0	0	1	0	1	0	0
Q28Q60	0	1	0	1	0	0
Q1MR76	0	1	0	1	0	0
Q6ADI0	0	1	0	1	0	0
Q2W4Q8	0	1	0	1	0	0
Q0APQ6	0	1	0	1	0	0
Q11HV9	0	1	0	1	0	0
Q1QM99	0	1	0	1	0	0
A6Q2K0	0	1	0	1	0	0
Q3SSN8	0	1	0	1	0	0
Q2G708	0	1	0	1	0	0
A6X0N1	0	1	0	1	0	0
A1B890	0	1	0	1	0	0
A7HXV6	0	1	0	1	0	0
Q4FM31	0	1	0	1	0	0
B3PYS4	0	1	0	1	0	0
Q2K8V5	0	1	0	1	0	0
Q1MH21	0	1	0	1	0	0
Q98MX9	0	1	0	1	0	0
B5ZNB6	0	1	0	1	0	0
Q92Q90	0	1	0	1	0	0
Q08113	0	1	0	1	0	0
Q21YT7	0	1	0	1	0	0
Q2IW23	0	1	0	1	0	0
Q07MZ2	0	1	0	1	0	0
Q6N6M5	0	1	0	1	0	0
Q214R1	0	1	0	1	0	0
Q137C3	0	1	0	1	0	0
B3QIL5	0	1	0	1	0	0
Q2RTS1	0	1	0	1	0	0
Q5LRN5	0	1	0	1	0	0
Q1GGW9	0	1	0	1	0	0
A6U8F8	0	1	0	1	0	0
Q1GTN0	0	1	0	1	0	0
A5V2U9	0	1	0	1	0	0
Q30QG7	0	1	0	1	0	0
A6Q7M3	0	1	0	1	0	0
O83525	0	1	0	1	0	0
Q83NK3	0	1	0	1	0	0
Q83MX3	0	1	0	1	0	0
Q73G24	0	1	0	1	0	0
Q7MQW9	0	1	0	1	0	0
Q5GSM7	0	1	0	1	0	0
Q9RNZ1	0	1	0	1	0	0

A4H7G5	1	0	1	0	0	0
A4HVVU6	1	0	1	0	0	0
Q4QFY1	1	0	1	0	0	0
B6EU02	1	0	1	0	0	0
Q57X81	1	0	1	0	0	0
Q4DCH3	1	0	1	0	0	0
Q16773	0	1	0	1	0	0
Q8BTY1	0	1	0	1	0	0
Q08415	0	1	0	1	0	0
Q0P5G4	0	1	0	1	0	0
Q7T3E5	0	1	0	1	0	0
Q6YP21	0	1	0	1	0	0
Q71RI9	0	1	0	1	0	0
Q7U0A6	1	1	0	1	0	0
A1KI36	1	1	0	1	0	0
Q9CC97	1	1	0	1	0	0
Q73WX4	1	1	0	1	0	0
A0R2B1	1	1	0	1	0	0
A3Q3N5	1	1	0	1	0	0
A1UK81	1	1	0	1	0	0
Q1B4V6	1	1	0	1	0	0
A5U1U6	1	1	0	1	0	0
O50463	1	1	0	1	0	0
A0PVU7	1	1	0	1	0	0
A1TDK2	1	1	0	1	0	0
H8ZM70	0	0	0	1	1	0
E4UPP6	0	1	0	0	1	0
A2QM49	0	1	0	0	1	0
Q2U4X9	0	1	0	0	1	0
Q67GH9	0	1	0	0	1	0
E3Q717	0	1	0	0	1	0
Q8X0Z1	0	1	0	0	1	0
E4ZUB5	0	1	0	0	1	0
Q9UUQ6	0	1	0	0	1	0
P37295	0	1	0	0	1	0
Q0V6M5	0	1	0	0	1	0
Q7Z859	0	1	0	0	1	0
Q9P854	0	1	0	0	1	0
B2ATB0	0	1	0	0	1	0
B2WAQ3	0	1	0	0	1	0
D1Z4K7	0	1	0	0	1	0
E6ZZ11	0	1	0	0	1	0
D4D802	0	1	0	0	1	0
Q4P0S6	0	1	0	0	1	0
D0LB45	0	1	0	0	0	1
A0QHC4	0	1	0	0	0	1

B1MAX9	0	1	0	0	0	1
Q7VEV7	0	1	0	0	0	1
A1KJ57	0	1	0	0	0	1
C1ANR3	0	1	0	0	0	1
A4T9U2	0	1	0	0	0	1
B8ZRJ4	0	1	0	0	0	1
Q9CC23	0	1	0	0	0	1
B2HR11	0	1	0	0	0	1
Q740J9	0	1	0	0	0	1
A0QYV1	0	1	0	0	0	1
A3Q0V0	0	1	0	0	0	1
A1UHB3	0	1	0	0	0	1
Q1B7P4	0	1	0	0	0	1
A5U2Z7	0	1	0	0	0	1
A5WMW1	0	1	0	0	0	1
C6DS31	0	1	0	0	0	1
P94974	0	1	0	0	0	1
A0PP57	0	1	0	0	0	1
A1TAC7	0	1	0	0	0	1
Q5Z3P6	0	1	0	0	0	1
C0ZL89	0	1	0	0	0	1
C1B7Z5	0	1	0	0	0	1
Q0SAA3	0	1	0	0	0	1
Q6TQR6	0	1	1	0	0	0
Q66431	0	1	1	0	0	0
Q9VHD3	0	1	0	0	1	0
Q9VHD2	0	1	0	0	1	0
O43708	0	1	0	0	1	0
Q9WVL0	0	1	0	0	1	0
P57113	0	1	0	0	1	0
Q7TYQ1	0	0	0	1	1	0
Q73XV3	0	0	0	1	1	0
Q7D785	0	0	0	1	1	0
Q17607	0	1	1	0	0	0
Q6NY98	0	1	1	0	0	0
O60942	0	1	1	0	0	0
O55236	0	1	1	0	0	0
Q8V2R8	0	1	1	0	0	0
Q775U0	0	1	1	0	0	0
Q8QMV9	0	1	1	0	0	0
Q80DX6	0	1	1	0	0	0
Q9J584	0	1	1	0	0	0
P25950	0	1	1	0	0	0
O57209	0	1	1	0	0	0
P20979	0	1	1	0	0	0
Q9JFA8	0	1	1	0	0	0

P04298	0	1	1	0	0	0
P33057	0	1	1	0	0	0
P32094	0	1	1	0	0	0
P0C995	0	1	1	0	0	0
Q65216	0	1	1	0	0	0
P0C993	0	1	1	0	0	0
P0C994	0	1	1	0	0	0
Q5UQX1	0	1	1	0	0	0
O14172	1	0	0	1	0	0
P15807	1	0	0	1	0	0
Q9ZPI5	1	0	0	1	1	0
O49809	1	0	0	1	1	0
Q39659	1	0	0	1	1	0
P29677	1	0	1	0	0	0
E0CSI1	0	0	1	1	0	0
E0CTF3	0	0	1	1	0	0
Q9FN41	0	0	1	1	0	0
B4G0F3	0	0	1	1	0	0
B8BKI7	0	0	1	1	0	0
Q2R483	0	0	1	1	0	0
A9RBS1	0	0	1	1	0	0
B9N1F9	0	0	1	1	0	0
B9SQI7	0	0	1	1	0	0
C6JS30	0	0	1	1	0	0
F6ZFR0	1	0	1	0	0	0
Q9H903	1	0	1	0	0	0
D3YZG8	1	0	1	0	0	0
D3ZUA0	1	0	1	0	0	0
Q0P5C2	1	0	1	0	0	0
Q5ZKA5	1	0	1	0	0	0
Q04448	1	0	1	0	0	0
P13995	1	0	1	0	0	0
P18155	1	0	1	0	0	0
Q5YQZ6	0	0	0	1	1	0
Q65KJ7	0	0	1	1	0	0
Q8YBP2	0	1	0	0	1	0
Q8FWN5	0	1	0	0	1	0
O60502	0	1	1	0	0	0
Q9EQQ9	0	1	1	0	0	0
Q93WX6	0	1	0	1	0	0
O67377	0	0	0	1	1	0
O29407	0	0	0	1	1	0
Q8NSS3	0	0	0	1	1	0
Q83CM5	0	0	0	1	1	0
B8E2P6	0	0	0	1	1	0
P31806	0	0	0	1	1	0

Q7NIE6	0	0	0	1	1	0
Q9ZJM4	0	0	0	1	1	0
P56176	0	0	0	1	1	0
A2BLC0	0	0	0	1	1	0
B1L3W1	0	0	0	1	1	0
A4H7T9	0	0	0	1	1	0
A4HW65	0	0	0	1	1	0
Q4QFL5	0	0	0	1	1	0
Q2FT57	0	0	0	1	1	0
Q58981	0	0	0	1	1	0
Q8TX67	0	0	0	1	1	0
O27324	0	0	0	1	1	0
Q2RGI2	0	0	0	1	1	0
P37391	0	0	0	1	1	0
O06250	0	0	0	1	1	0
Q8ZV04	0	0	0	1	1	0
Q2S580	0	0	0	1	1	0
P74217	0	0	0	1	1	0
D1BAA5	0	0	0	1	1	0
Q8DGC3	0	0	0	1	1	0
Q9X024	0	0	0	1	1	0
A1S0R2	0	0	0	1	1	0
B5YIM0	0	0	0	1	1	0
Q9KMX5	0	0	0	1	1	0
Q8NRC3	1	1	0	0	0	0
Q5JJY4	0	1	1	0	0	0
Q940A2	0	1	1	0	0	0
P54887	1	1	0	0	0	0
P54888	1	1	0	0	0	0
O04015	1	1	0	0	0	0
P54886	1	1	0	0	0	0
O65361	1	1	0	0	0	0
Q9Z110	1	1	0	0	0	0
O04226	1	1	0	0	0	0
Q5R4M8	1	1	0	0	0	0
Q96480	1	1	0	0	0	0
P32296	1	1	0	0	0	0
P28819	0	1	0	1	0	0
P15557	0	1	1	0	0	0
B0C6S1	0	1	0	0	0	1
Q3MEJ8	0	1	0	0	0	1
Q7NJM6	0	1	0	0	0	1
Q8YSZ3	0	1	0	0	0	1
A3PF80	0	1	0	0	0	1
A2C536	0	1	0	0	0	1
A8G795	0	1	0	0	0	1

A2CBX2	0	1	0	0	0	1
Q318F2	0	1	0	0	0	1
Q7V9S8	0	1	0	0	0	1
Q7V583	0	1	0	0	0	1
Q7UZR6	0	1	0	0	0	1
A2BTH1	0	1	0	0	0	1
Q46IM3	0	1	0	0	0	1
Q31P38	0	1	0	0	0	1
Q2JRH9	0	1	0	0	0	1
Q2JJ30	0	1	0	0	0	1
Q5N530	0	1	0	0	0	1
A5GIY5	0	1	0	0	0	1
Q7U4P0	0	1	0	0	0	1
A5GVR3	0	1	0	0	0	1
Q0ICW2	0	1	0	0	0	1
Q3AUV1	0	1	0	0	0	1
Q3AMJ0	0	1	0	0	0	1
Q55074	0	1	0	0	0	1
Q8DG73	0	1	0	0	0	1
Q3SZ62	0	0	1	0	1	0
Q5ZLN1	0	0	1	0	1	0
P18669	0	0	1	0	1	0
Q9DBJ1	0	0	1	0	1	0
Q5RFB8	0	0	1	0	1	0
P25113	0	0	1	0	1	0
Q32KV0	0	0	1	0	1	0
P15259	0	0	1	0	1	0
O70250	0	0	1	0	1	0
P16290	0	0	1	0	1	0
Q8N0Y7	0	0	1	0	1	0
Q8MKE8	0	0	1	0	1	0
Q54NE6	0	0	1	0	1	0
P36204	0	1	0	0	1	0
O67085	0	0	0	1	1	0
P57472	0	0	0	1	1	0
Q8K9F8	0	0	0	1	1	0
Q89AE5	0	0	0	1	1	0
P0A9J9	0	0	0	1	1	0
P0A9J8	0	0	0	1	1	0
Q02286	0	0	0	1	1	0
P43900	0	0	0	1	1	0
Q9ZHY3	0	0	0	1	1	0
Q9HZ67	0	0	0	1	1	0
P27603	0	0	0	1	1	0
Q183T0	0	1	1	0	0	0
Q3T014	0	0	1	0	1	0

P07738	0	0	1	0	1	0
Q4R6L7	0	0	1	0	1	0
P15327	0	0	1	0	1	0
P07952	0	0	1	0	1	0
O13911	0	1	1	0	0	0
P41476	0	1	0	0	0	1
Q96T60	0	1	1	0	0	0
Q5UQD2	0	1	1	0	0	0
Q9JLV6	0	1	1	0	0	0
P10266	0	1	1	0	0	0
P63135	0	1	1	0	0	0
P63136	0	1	1	0	0	0
Q9UQG0	0	1	1	0	0	0
Q9BXR3	0	1	1	0	0	0
Q9WJR5	0	1	1	0	0	0
P63128	0	1	1	0	0	0
P63132	0	1	1	0	0	0
P63133	0	1	1	0	0	0
Q9QC07	0	1	1	0	0	0
P90245	0	1	1	0	0	0
Q04574	0	1	1	0	0	0
Q01206	0	1	1	0	0	0
Q9YJW3	0	1	1	0	0	0
Q04350	0	1	1	0	0	0
Q9YTU2	0	1	1	0	0	0
Q9YLS4	0	1	1	0	0	0
Q6WQ42	0	1	1	0	0	0
Q6R325	0	1	1	0	0	0
Q6PLS1	0	1	1	0	0	0
P36309	0	1	1	0	0	0
Q65399	0	1	1	0	0	0
Q288N7	0	1	1	0	0	0
Q8JN60	0	1	1	0	0	0
P12915	0	1	1	0	0	0
Q65730	0	1	1	0	0	0
Q65729	0	1	1	0	0	0
Q6XW15	0	1	1	0	0	0
Q96662	0	1	1	0	0	0
P19711	0	1	1	0	0	0
Q01499	0	1	1	0	0	0
A0AUJ5	0	1	1	0	0	0
P17765	0	1	1	0	0	0
Q8V736	0	1	1	0	0	0
Q1KZ59	0	1	1	0	0	0
P19712	0	1	1	0	0	0
P21530	0	1	1	0	0	0

Q65900	0	1	1	0	0	0
Q9QF31	0	1	1	0	0	0
P22055	0	1	1	0	0	0
P36290	0	1	1	0	0	0
P21404	0	1	1	0	0	0
P08291	0	1	1	0	0	0
Q9YLG5	0	1	1	0	0	0
P03313	0	1	1	0	0	0
Q66282	0	1	1	0	0	0
Q86887	0	1	1	0	0	0
P08292	0	1	1	0	0	0
Q03053	0	1	1	0	0	0
Q9QL88	0	1	1	0	0	0
P27909	0	1	1	0	0	0
P33478	0	1	1	0	0	0
P17763	0	1	1	0	0	0
P29990	0	1	1	0	0	0
P29991	0	1	1	0	0	0
P14337	0	1	1	0	0	0
P07564	0	1	1	0	0	0
P14340	0	1	1	0	0	0
P12823	0	1	1	0	0	0
Q9WDA6	0	1	1	0	0	0
Q99D35	0	1	1	0	0	0
Q5UB51	0	1	1	0	0	0
Q6YMS3	0	1	1	0	0	0
P27915	0	1	1	0	0	0
Q6YMS4	0	1	1	0	0	0
P09866	0	1	1	0	0	0
Q2YHF2	0	1	1	0	0	0
Q58HT7	0	1	1	0	0	0
Q5UCB8	0	1	1	0	0	0
Q2YHF0	0	1	1	0	0	0
Q96725	0	1	1	0	0	0
O91734	0	1	1	0	0	0
Q9YLJ1	0	1	1	0	0	0
Q66474	0	1	1	0	0	0
Q66577	0	1	1	0	0	0
Q66849	0	1	1	0	0	0
P29813	0	1	1	0	0	0
Q66575	0	1	1	0	0	0
Q9WN78	0	1	1	0	0	0
P03304	0	1	1	0	0	0
P17593	0	1	1	0	0	0
P17594	0	1	1	0	0	0
Q66765	0	1	1	0	0	0

P12296	0	1	1	0	0	0
P27407	0	1	1	0	0	0
P27408	0	1	1	0	0	0
P27409	0	1	1	0	0	0
Q66914	0	1	1	0	0	0
P03306	0	1	1	0	0	0
P03307	0	1	1	0	0	0
P03308	0	1	1	0	0	0
P03309	0	1	1	0	0	0
P03310	0	1	1	0	0	0
P03305	0	1	1	0	0	0
P03311	0	1	1	0	0	0
P49303	0	1	1	0	0	0
Q69422	0	1	1	0	0	0
Q8V0N6	0	1	1	0	0	0
Q5Y944	0	1	1	0	0	0
Q67825	0	1	1	0	0	0
A3FMB2	0	1	1	0	0	0
Q05794	0	1	1	0	0	0
P08617	0	1	1	0	0	0
A5LGW7	0	1	1	0	0	0
P06441	0	1	1	0	0	0
P13901	0	1	1	0	0	0
Q9DWR1	0	1	1	0	0	0
P14553	0	1	1	0	0	0
P26664	0	1	1	0	0	0
Q5I2N3	0	1	1	0	0	0
Q68749	0	1	1	0	0	0
P26663	0	1	1	0	0	0
Q9WMX2	0	1	1	0	0	0
O39929	0	1	1	0	0	0
O39927	0	1	1	0	0	0
O39928	0	1	1	0	0	0
P27958	0	1	1	0	0	0
Q81754	0	1	1	0	0	0
Q913D4	0	1	1	0	0	0
Q03463	0	1	1	0	0	0
O92972	0	1	1	0	0	0
P26660	0	1	1	0	0	0
P26661	0	1	1	0	0	0
P26662	0	1	1	0	0	0
Q99IB8	0	1	1	0	0	0
Q68801	0	1	1	0	0	0
Q68798	0	1	1	0	0	0
Q9DHD6	0	1	1	0	0	0
Q00269	0	1	1	0	0	0

Q81495	0	1	1	0	0	0
Q81258	0	1	1	0	0	0
Q913V3	0	1	1	0	0	0
O91936	0	1	1	0	0	0
O92529	0	1	1	0	0	0
Q81487	0	1	1	0	0	0
P29846	0	1	1	0	0	0
Q9QAX1	0	1	1	0	0	0
O92530	0	1	1	0	0	0
O92531	0	1	1	0	0	0
O92532	0	1	1	0	0	0
P32537	0	1	1	0	0	0
Q66478	0	1	1	0	0	0
Q66479	0	1	1	0	0	0
Q66578	0	1	1	0	0	0
Q9YID8	0	1	1	0	0	0
O73556	0	1	1	0	0	0
P03303	0	1	1	0	0	0
Q82122	0	1	1	0	0	0
P23008	0	1	1	0	0	0
P12916	0	1	1	0	0	0
P04936	0	1	1	0	0	0
Q82081	0	1	1	0	0	0
P07210	0	1	1	0	0	0
P27395	0	1	1	0	0	0
P19110	0	1	1	0	0	0
P32886	0	1	1	0	0	0
P14335	0	1	1	0	0	0
P29837	0	1	1	0	0	0
P22338	0	1	1	0	0	0
P31999	0	1	1	0	0	0
P89876	0	1	1	0	0	0
P54634	0	1	1	0	0	0
P33515	0	1	1	0	0	0
Q91TW9	0	1	1	0	0	0
P05769	0	1	1	0	0	0
Q83883	0	1	1	0	0	0
P20234	0	1	1	0	0	0
Q01500	0	1	1	0	0	0
O56075	0	1	1	0	0	0
Q9QEJ5	0	1	1	0	0	0
O41174	0	1	1	0	0	0
P03300	0	1	1	0	0	0
P03301	0	1	1	0	0	0
P06210	0	1	1	0	0	0
P23069	0	1	1	0	0	0

P06209	0	1	1	0	0	0
P03302	0	1	1	0	0	0
Q04538	0	1	1	0	0	0
P13529	0	1	1	0	0	0
Q01681	0	1	1	0	0	0
P17766	0	1	1	0	0	0
P17767	0	1	1	0	0	0
Q84934	0	1	1	0	0	0
Q01901	0	1	1	0	0	0
P29152	0	1	1	0	0	0
Q85197	0	1	1	0	0	0
Q02963	0	1	1	0	0	0
P18247	0	1	1	0	0	0
O11436	0	1	1	0	0	0
P27411	0	1	1	0	0	0
Q86119	0	1	1	0	0	0
Q89273	0	1	1	0	0	0
P27410	0	1	1	0	0	0
Q86117	0	1	1	0	0	0
Q90069	0	1	1	0	0	0
P21231	0	1	1	0	0	0
P36286	0	1	1	0	0	0
P36287	0	1	1	0	0	0
Q04544	0	1	1	0	0	0
P89201	0	1	1	0	0	0
P09732	0	1	1	0	0	0
P16604	0	1	1	0	0	0
P13900	0	1	1	0	0	0
Q6XDK8	0	1	1	0	0	0
Q69014	0	1	1	0	0	0
Q672I1	0	1	1	0	0	0
Q01299	0	1	1	0	0	0
P07720	0	1	1	0	0	0
P14336	0	1	1	0	0	0
P04517	0	1	1	0	0	0
P08544	0	1	1	0	0	0
P13899	0	1	1	0	0	0
P08545	0	1	1	0	0	0
A4KZ49	0	1	1	0	0	0
P89509	0	1	1	0	0	0
Q02597	0	1	1	0	0	0
P09814	0	1	1	0	0	0
Q9DUN3	0	1	1	0	0	0
P18478	0	1	1	0	0	0
P06935	0	1	1	0	0	0
P03314	0	1	1	0	0	0

Q6DV88	0	1	1	0	0	0
Q6J3P1	0	1	1	0	0	0
Q074N0	0	1	1	0	0	0
Q89277	0	1	1	0	0	0
Q98803	0	1	1	0	0	0
Q1X881	0	1	1	0	0	0
Q9YRV3	0	1	1	0	0	0
Q1X880	0	1	1	0	0	0
P18479	0	1	1	0	0	0
Q86924	0	1	1	0	0	0
P87515	0	1	1	0	0	0
Q5XXP4	0	1	1	0	0	0
Q8JUX6	0	1	1	0	0	0
Q306W6	0	1	1	0	0	0
Q306W8	0	1	1	0	0	0
Q4QXJ8	0	1	1	0	0	0
P36327	0	1	1	0	0	0
Q8V294	0	1	1	0	0	0
Q9WJC7	0	1	1	0	0	0
P36328	0	1	1	0	0	0
P27282	0	1	1	0	0	0
Q5Y389	0	1	1	0	0	0
Q8QZ73	0	1	1	0	0	0
P13886	0	1	1	0	0	0
O90370	0	1	1	0	0	0
O90368	0	1	1	0	0	0
P13887	0	1	1	0	0	0
Q6X2U4	0	1	1	0	0	0
Q6X2U2	0	1	1	0	0	0
Q9J6K9	0	1	1	0	0	0
Q86500	0	1	1	0	0	0
Q8BCR0	0	1	1	0	0	0
Q99IE7	0	1	1	0	0	0
O40955	0	1	1	0	0	0
P13889	0	1	1	0	0	0
Q99IE5	0	1	1	0	0	0
Q9JGL0	0	1	1	0	0	0
P08411	0	1	1	0	0	0
P27283	0	1	1	0	0	0
P03317	0	1	1	0	0	0
Q8QL53	0	1	1	0	0	0
Q8JJX1	0	1	1	0	0	0
P13896	0	1	1	0	0	0
Q7SQ98	0	1	1	0	0	0
P03360	0	1	1	0	0	0
P10272	0	1	1	0	0	0

P19560	0	1	1	0	0	0
P25059	0	1	1	0	0	0
P03361	0	1	1	0	0	0
P33459	0	1	1	0	0	0
P19199	0	1	1	0	0	0
Q89703	0	1	1	0	0	0
P11204	0	1	1	0	0	0
P32542	0	1	1	0	0	0
P03371	0	1	1	0	0	0
P31792	0	1	1	0	0	0
O93209	0	1	1	0	0	0
P16088	0	1	1	0	0	0
P19028	0	1	1	0	0	0
P31822	0	1	1	0	0	0
P10273	0	1	1	0	0	0
P14350	0	1	1	0	0	0
P21414	0	1	1	0	0	0
P03362	0	1	1	0	0	0
P14078	0	1	1	0	0	0
P0C211	0	1	1	0	0	0
Q0R5R2	0	1	1	0	0	0
Q4U0X6	0	1	1	0	0	0
P03363	0	1	1	0	0	0
O93215	0	1	1	0	0	0
O12158	0	1	1	0	0	0
O89290	0	1	1	0	0	0
Q9QBY3	0	1	1	0	0	0
Q9QBZ9	0	1	1	0	0	0
O41798	0	1	1	0	0	0
P03369	0	1	1	0	0	0
Q77373	0	1	1	0	0	0
P03366	0	1	1	0	0	0
P04587	0	1	1	0	0	0
Q73368	0	1	1	0	0	0
P03367	0	1	1	0	0	0
P04589	0	1	1	0	0	0
Q75002	0	1	1	0	0	0
P04585	0	1	1	0	0	0
P20875	0	1	1	0	0	0
P0C6F2	0	1	1	0	0	0
Q9QBZ1	0	1	1	0	0	0
P04588	0	1	1	0	0	0
P05961	0	1	1	0	0	0
Q9QBZ5	0	1	1	0	0	0
Q79666	0	1	1	0	0	0
P12497	0	1	1	0	0	0

P18802	0	1	1	0	0	0
P20892	0	1	1	0	0	0
P05959	0	1	1	0	0	0
Q9WC54	0	1	1	0	0	0
Q9WC63	0	1	1	0	0	0
O89940	0	1	1	0	0	0
P24740	0	1	1	0	0	0
Q9Q720	0	1	1	0	0	0
Q9QSR3	0	1	1	0	0	0
P35963	0	1	1	0	0	0
Q9IDV9	0	1	1	0	0	0
O91080	0	1	1	0	0	0
P12499	0	1	1	0	0	0
P18096	0	1	1	0	0	0
P24107	0	1	1	0	0	0
P17757	0	1	1	0	0	0
P15833	0	1	1	0	0	0
Q89928	0	1	1	0	0	0
P18042	0	1	1	0	0	0
Q74120	0	1	1	0	0	0
P05962	0	1	1	0	0	0
P04584	0	1	1	0	0	0
P12451	0	1	1	0	0	0
P20876	0	1	1	0	0	0
Q76634	0	1	1	0	0	0
P04026	0	1	1	0	0	0
P11368	0	1	1	0	0	0
P12894	0	1	1	0	0	0
Q82851	0	1	1	0	0	0
P31623	0	1	1	0	0	0
Q9TTC1	0	1	1	0	0	0
P03356	0	1	1	0	0	0
P26810	0	1	1	0	0	0
P26809	0	1	1	0	0	0
P26808	0	1	1	0	0	0
P03355	0	1	1	0	0	0
P11227	0	1	1	0	0	0
P31795	0	1	1	0	0	0
P03365	0	1	1	0	0	0
P11283	0	1	1	0	0	0
P07572	0	1	1	0	0	0
P16901	0	1	1	0	0	0
P03354	0	1	1	0	0	0
Q04095	0	1	1	0	0	0
O92956	0	1	1	0	0	0
P27502	0	1	1	0	0	0

P23074	0	1	1	0	0	0
P27401	0	1	1	0	0	0
Q87040	0	1	1	0	0	0
P17283	0	1	1	0	0	0
Q1A249	0	1	1	0	0	0
Q02836	0	1	1	0	0	0
P22382	0	1	1	0	0	0
P05896	0	1	1	0	0	0
Q1A267	0	1	1	0	0	0
P05897	0	1	1	0	0	0
P12502	0	1	1	0	0	0
P19505	0	1	1	0	0	0
Q8AII1	0	1	1	0	0	0
P27973	0	1	1	0	0	0
P27980	0	1	1	0	0	0
P05895	0	1	1	0	0	0
P03364	0	1	1	0	0	0
P04025	0	1	1	0	0	0
P51517	0	1	1	0	0	0
P03370	0	1	1	0	0	0
P23426	0	1	1	0	0	0
P23427	0	1	1	0	0	0
P35956	0	1	1	0	0	0
O92815	0	1	1	0	0	0
P03359	0	1	1	0	0	0
Q2F7J3	0	1	1	0	0	0
Q2F7J0	0	1	1	0	0	0
A1Z651	0	1	1	0	0	0
Q9SCX8	1	0	1	0	0	0
Q949Y3	1	0	1	0	0	0
B0Y6R2	1	0	0	0	1	0
Q4WPX2	1	0	0	0	1	0
O25093	0	1	1	0	0	0
Q45697	1	0	0	1	0	0
O32141	1	0	0	1	0	0
Q59A32	0	1	0	0	0	1
P21872	0	1	0	0	0	1
Q26255	0	1	0	0	0	1
P00967	0	1	0	0	0	1
P16340	0	1	0	0	0	1
P22102	0	1	0	0	0	1
Q64737	0	1	0	0	0	1
Q10457	0	0	0	1	0	1
P38024	0	0	0	1	0	1
Q9I7S8	0	0	0	1	0	1
P22234	0	0	0	1	0	1

Q9DCL9	0	0	0	1	0	1
Q5RB59	0	0	0	1	0	1
P51583	0	0	0	1	0	1
P54113	0	1	1	0	0	0
P38009	0	1	1	0	0	0
B0BZH9	0	1	1	0	0	0
A5FUH4	0	1	1	0	0	0
B7J5P7	0	1	1	0	0	0
B5EL42	0	1	1	0	0	0
A0KGJ2	0	1	1	0	0	0
A4SR98	0	1	1	0	0	0
B9JEU9	0	1	1	0	0	0
Q8UBM8	0	1	1	0	0	0
Q0VMY5	0	1	1	0	0	0
B6ENA8	0	1	1	0	0	0
A6TLS7	0	1	1	0	0	0
A8MLI9	0	1	1	0	0	0
Q46480	0	1	1	0	0	0
B4S133	0	1	1	0	0	0
B8JHC9	0	1	1	0	0	0
Q2IKQ7	0	1	1	0	0	0
A7HA60	0	1	1	0	0	0
B4UJ61	0	1	1	0	0	0
Q3M6G3	0	1	1	0	0	0
B7GFU2	0	1	1	0	0	0
O67775	0	1	1	0	0	0
C1DLJ1	0	1	1	0	0	0
C3PBN4	0	1	1	0	0	0
C3L536	0	1	1	0	0	0
A0R900	0	1	1	0	0	0
Q81ZG8	0	1	1	0	0	0
B7JM89	0	1	1	0	0	0
Q73EN1	0	1	1	0	0	0
B7IUV7	0	1	1	0	0	0
C1EV67	0	1	1	0	0	0
B7H4U0	0	1	1	0	0	0
B7HS36	0	1	1	0	0	0
A7GKI2	0	1	1	0	0	0
B9J1K9	0	1	1	0	0	0
Q81IP9	0	1	1	0	0	0
Q63GS9	0	1	1	0	0	0
Q9KF53	0	1	1	0	0	0
Q6HPA0	0	1	1	0	0	0
Q5WJ82	0	1	1	0	0	0
P12048	0	1	1	0	0	0
Q8A155	0	1	1	0	0	0

A9VRF5	0	1	1	0	0	0
A1UR09	0	1	1	0	0	0
Q6G5S5	0	1	1	0	0	0
Q6FYG4	0	1	1	0	0	0
A9IZD0	0	1	1	0	0	0
Q1LU51	0	1	1	0	0	0
B3DRY6	0	1	1	0	0	0
Q8G6B1	0	1	1	0	0	0
Q0VCK0	0	1	1	0	0	0
C0QXU6	0	1	1	0	0	0
Q89WU7	0	1	1	0	0	0
B2S7P0	0	1	1	0	0	0
Q2YLH0	0	1	1	0	0	0
Q57B71	0	1	1	0	0	0
A9M854	0	1	1	0	0	0
C0RF67	0	1	1	0	0	0
P67539	0	1	1	0	0	0
A5VSF8	0	1	1	0	0	0
A9WWU1	0	1	1	0	0	0
P67540	0	1	1	0	0	0
B8D8J3	0	1	1	0	0	0
P57143	0	1	1	0	0	0
Q8KA70	0	1	1	0	0	0
B8D6U7	0	1	1	0	0	0
Q89B23	0	1	1	0	0	0
B1YTE2	0	1	1	0	0	0
Q1BZ33	0	1	1	0	0	0
B1JVV6	0	1	1	0	0	0
A0K4L7	0	1	1	0	0	0
B4EES4	0	1	1	0	0	0
Q0BI80	0	1	1	0	0	0
A9AH70	0	1	1	0	0	0
A3MP76	0	1	1	0	0	0
A2S597	0	1	1	0	0	0
Q62HA6	0	1	1	0	0	0
A1V068	0	1	1	0	0	0
A3NZ64	0	1	1	0	0	0
Q3JNS8	0	1	1	0	0	0
A3NDF2	0	1	1	0	0	0
B2JGU1	0	1	1	0	0	0
B2SYJ7	0	1	1	0	0	0
Q63QX8	0	1	1	0	0	0
Q39JI8	0	1	1	0	0	0
Q2SZ52	0	1	1	0	0	0
A4JBL5	0	1	1	0	0	0
Q13UC4	0	1	1	0	0	0

B9MS89	0	1	1	0	0	0
A4XKZ2	0	1	1	0	0	0
A7ZCZ7	0	1	1	0	0	0
A7GYY6	0	1	1	0	0	0
A8FM07	0	1	1	0	0	0
A7H375	0	1	1	0	0	0
Q9PNY2	0	1	1	0	0	0
A1VZU4	0	1	1	0	0	0
Q5HUK6	0	1	1	0	0	0
Q9ABY4	0	1	1	0	0	0
P31335	0	1	1	0	0	0
A9WEK8	0	1	1	0	0	0
Q3ATZ1	0	1	1	0	0	0
B3EEI0	0	1	1	0	0	0
B3QQA5	0	1	1	0	0	0
B3ELV3	0	1	1	0	0	0
A1BE85	0	1	1	0	0	0
B3QS62	0	1	1	0	0	0
Q8KFK6	0	1	1	0	0	0
Q7P0M1	0	1	1	0	0	0
A8AKS0	0	1	1	0	0	0
Q97J91	0	1	1	0	0	0
A7FXD3	0	1	1	0	0	0
C3L2U9	0	1	1	0	0	0
A6LSB3	0	1	1	0	0	0
B2V3C3	0	1	1	0	0	0
B2TN76	0	1	1	0	0	0
A5I5V9	0	1	1	0	0	0
C1FV76	0	1	1	0	0	0
B1IL57	0	1	1	0	0	0
A7GH96	0	1	1	0	0	0
B1KZ55	0	1	1	0	0	0
B8I490	0	1	1	0	0	0
Q18CW0	0	1	1	0	0	0
B9E4K6	0	1	1	0	0	0
A5N0Q0	0	1	1	0	0	0
A0Q1J0	0	1	1	0	0	0
Q0TTB0	0	1	1	0	0	0
Q8XMK2	0	1	1	0	0	0
Q0SV48	0	1	1	0	0	0
Q892X3	0	1	1	0	0	0
A3DEU9	0	1	1	0	0	0
Q489F4	0	1	1	0	0	0
C3PF03	0	1	1	0	0	0
Q9RHX6	0	1	1	0	0	0
Q6NID8	0	1	1	0	0	0

Q8FR29	0	1	1	0	0	0
A4QCK4	0	1	1	0	0	0
Q8NS21	0	1	1	0	0	0
A7MJ89	0	1	1	0	0	0
Q0KEC0	0	1	1	0	0	0
Q475R4	0	1	1	0	0	0
B2AH76	0	1	1	0	0	0
B8HPG4	0	1	1	0	0	0
B7KGS0	0	1	1	0	0	0
B7K3N8	0	1	1	0	0	0
C1CWJ7	0	1	1	0	0	0
Q1J119	0	1	1	0	0	0
Q9RW01	0	1	1	0	0	0
B8FP05	0	1	1	0	0	0
Q24QH6	0	1	1	0	0	0
Q86L14	0	1	1	0	0	0
A8LMD0	0	1	1	0	0	0
A7ZUM3	0	1	1	0	0	0
B7UPG1	0	1	1	0	0	0
B7MIZ2	0	1	1	0	0	0
B7LAV3	0	1	1	0	0	0
Q8X611	0	1	1	0	0	0
B5Z0A3	0	1	1	0	0	0
B7NRT9	0	1	1	0	0	0
B7MRD0	0	1	1	0	0	0
B7M7R5	0	1	1	0	0	0
C5A0U7	0	1	1	0	0	0
B1XC09	0	1	1	0	0	0
A8A7A6	0	1	1	0	0	0
A1AIH7	0	1	1	0	0	0
Q0TA59	0	1	1	0	0	0
Q8FB68	0	1	1	0	0	0
B1IUP1	0	1	1	0	0	0
P15639	0	1	1	0	0	0
B7NFU7	0	1	1	0	0	0
B6I5L8	0	1	1	0	0	0
B1LPG6	0	1	1	0	0	0
Q1R5X1	0	1	1	0	0	0
B2KCF7	0	1	1	0	0	0
Q833Z3	0	1	1	0	0	0
Q6DAL2	0	1	1	0	0	0
B2VG81	0	1	1	0	0	0
B7LUJ6	0	1	1	0	0	0
Q8REV6	0	1	1	0	0	0
B5EBF9	0	1	1	0	0	0
B3E7F6	0	1	1	0	0	0

Q39RK1	0	1	1	0	0	0
B9M4Q6	0	1	1	0	0	0
Q74FJ9	0	1	1	0	0	0
C6E5Z3	0	1	1	0	0	0
A5G879	0	1	1	0	0	0
P43852	0	1	1	0	0	0
Q0I557	0	1	1	0	0	0
B0UWT1	0	1	1	0	0	0
B0TEC5	0	1	1	0	0	0
A4G1U6	0	1	1	0	0	0
P31939	0	1	1	0	0	0
A6SUQ1	0	1	1	0	0	0
Q28K03	0	1	1	0	0	0
B5XYD2	0	1	1	0	0	0
A6TGR3	0	1	1	0	0	0
Q5FIV5	0	1	1	0	0	0
Q037V3	0	1	1	0	0	0
B3WF93	0	1	1	0	0	0
Q1G9G2	0	1	1	0	0	0
Q049M1	0	1	1	0	0	0
Q9CFG0	0	1	1	0	0	0
A2RJY0	0	1	1	0	0	0
Q02Y66	0	1	1	0	0	0
Q88U29	0	1	1	0	0	0
A5VHU2	0	1	1	0	0	0
B2G5C2	0	1	1	0	0	0
Q1WU55	0	1	1	0	0	0
Q38XW3	0	1	1	0	0	0
C1D6F1	0	1	1	0	0	0
Q6AD62	0	1	1	0	0	0
B0SGW3	0	1	1	0	0	0
Q04T56	0	1	1	0	0	0
Q051H8	0	1	1	0	0	0
B0SQ10	0	1	1	0	0	0
Q72RT5	0	1	1	0	0	0
Q8F3W6	0	1	1	0	0	0
B1MY42	0	1	1	0	0	0
Q03Y85	0	1	1	0	0	0
Q92AP3	0	1	1	0	0	0
C1KW64	0	1	1	0	0	0
Q71YQ3	0	1	1	0	0	0
B8DDZ2	0	1	1	0	0	0
Q8Y6C5	0	1	1	0	0	0
A0AJL9	0	1	1	0	0	0
B1HTV8	0	1	1	0	0	0
B9EAZ2	0	1	1	0	0	0

A0LDB0	0	1	1	0	0	0
Q11CT4	0	1	1	0	0	0
Q1H4G7	0	1	1	0	0	0
B0JL55	0	1	1	0	0	0
Q2RGU9	0	1	1	0	0	0
Q9CWJ9	0	1	1	0	0	0
P67542	0	1	1	0	0	0
A1KH91	0	1	1	0	0	0
C1ALU3	0	1	1	0	0	0
B8ZU05	0	1	1	0	0	0
Q9Z5H5	0	1	1	0	0	0
B2HEC3	0	1	1	0	0	0
Q9RAJ5	0	1	1	0	0	0
A3Q5N7	0	1	1	0	0	0
A1UL88	0	1	1	0	0	0
Q1B3W0	0	1	1	0	0	0
A5U0Z7	0	1	1	0	0	0
P67541	0	1	1	0	0	0
A0PWC5	0	1	1	0	0	0
Q1D898	0	1	1	0	0	0
B2A5W1	0	1	1	0	0	0
Q5F6T1	0	1	1	0	0	0
B4RP71	0	1	1	0	0	0
A9M4I2	0	1	1	0	0	0
Q9JUQ8	0	1	1	0	0	0
Q9JZM7	0	1	1	0	0	0
A1KTP9	0	1	1	0	0	0
Q3JC90	0	1	1	0	0	0
A1SMP8	0	1	1	0	0	0
B2IX54	0	1	1	0	0	0
Q8YSJ2	0	1	1	0	0	0
Q8CXK7	0	1	1	0	0	0
A6WXV3	0	1	1	0	0	0
Q04EU6	0	1	1	0	0	0
A1B5K8	0	1	1	0	0	0
A7HSQ6	0	1	1	0	0	0
P57828	0	1	1	0	0	0
C6DHT5	0	1	1	0	0	0
Q03E83	0	1	1	0	0	0
Q3A2D6	0	1	1	0	0	0
Q3B5R1	0	1	1	0	0	0
B4SDT6	0	1	1	0	0	0
A1AS76	0	1	1	0	0	0
C0QRH2	0	1	1	0	0	0
A9BIX9	0	1	1	0	0	0
Q7N954	0	1	1	0	0	0

B1XS23	0	1	1	0	0	0
A4T025	0	1	1	0	0	0
Q5R5C2	0	1	1	0	0	0
B4S3H9	0	1	1	0	0	0
Q6A6Y8	0	1	1	0	0	0
A3PAY7	0	1	1	0	0	0
A2C098	0	1	1	0	0	0
A8G2S6	0	1	1	0	0	0
A2CCK6	0	1	1	0	0	0
A9BDN8	0	1	1	0	0	0
A2BUP7	0	1	1	0	0	0
Q31CR6	0	1	1	0	0	0
Q7VDS0	0	1	1	0	0	0
B4EYT2	0	1	1	0	0	0
Q7TUM7	0	1	1	0	0	0
Q7TUG1	0	1	1	0	0	0
A2BP65	0	1	1	0	0	0
Q46HA8	0	1	1	0	0	0
A4SDE6	0	1	1	0	0	0
A6VCW0	0	1	1	0	0	0
B7V1R6	0	1	1	0	0	0
Q02FG6	0	1	1	0	0	0
Q9HUV9	0	1	1	0	0	0
Q1I4C1	0	1	1	0	0	0
Q4KIX5	0	1	1	0	0	0
C3K6E0	0	1	1	0	0	0
Q3IIC3	0	1	1	0	0	0
A4XQ60	0	1	1	0	0	0
A5W9K7	0	1	1	0	0	0
B0KJZ6	0	1	1	0	0	0
Q88DK3	0	1	1	0	0	0
B1J5T3	0	1	1	0	0	0
Q87VR9	0	1	1	0	0	0
A4VPK9	0	1	1	0	0	0
Q4FRN8	0	1	1	0	0	0
Q1QA75	0	1	1	0	0	0
A1SZJ2	0	1	1	0	0	0
A5WFX4	0	1	1	0	0	0
Q1LRB3	0	1	1	0	0	0
B2UFL5	0	1	1	0	0	0
Q8Y232	0	1	1	0	0	0
O35567	0	1	1	0	0	0
B3PS36	0	1	1	0	0	0
Q2K2T6	0	1	1	0	0	0
Q1MA35	0	1	1	0	0	0
Q98ES7	0	1	1	0	0	0

B5ZV31	0	1	1	0	0	0
Q92KX6	0	1	1	0	0	0
C3MAR5	0	1	1	0	0	0
Q7UKJ8	0	1	1	0	0	0
Q2RN46	0	1	1	0	0	0
A3PNE9	0	1	1	0	0	0
Q3IYU8	0	1	1	0	0	0
A4WWQ0	0	1	1	0	0	0
B9KP36	0	1	1	0	0	0
Q16CE0	0	1	1	0	0	0
Q5LN38	0	1	1	0	0	0
Q1GKJ2	0	1	1	0	0	0
B5F1I9	0	1	1	0	0	0
A9MHC3	0	1	1	0	0	0
B5FQM1	0	1	1	0	0	0
B5QYG1	0	1	1	0	0	0
B5RFH8	0	1	1	0	0	0
B4TDF3	0	1	1	0	0	0
B4T108	0	1	1	0	0	0
Q5PKA9	0	1	1	0	0	0
A9N0L8	0	1	1	0	0	0
C0Q2T8	0	1	1	0	0	0
B5BJS5	0	1	1	0	0	0
B4TQL6	0	1	1	0	0	0
Q8Z335	0	1	1	0	0	0
P26978	0	1	1	0	0	0
O74928	0	1	1	0	0	0
A8G8G3	0	1	1	0	0	0
A1S2J9	0	1	1	0	0	0
Q12IP4	0	1	1	0	0	0
Q088G0	0	1	1	0	0	0
B0TR91	0	1	1	0	0	0
A3QII0	0	1	1	0	0	0
Q8EJM1	0	1	1	0	0	0
A8GZM3	0	1	1	0	0	0
B8CTW4	0	1	1	0	0	0
A8FQD4	0	1	1	0	0	0
B1KNA0	0	1	1	0	0	0
B2TWJ3	0	1	1	0	0	0
Q31TZ1	0	1	1	0	0	0
Q32AH9	0	1	1	0	0	0
Q0SXZ4	0	1	1	0	0	0
Q83IR9	0	1	1	0	0	0
Q3YUX8	0	1	1	0	0	0
A6UED3	0	1	1	0	0	0
Q2NWQ7	0	1	1	0	0	0

A9GIT1	0	1	1	0	0	0
A6U0P1	0	1	1	0	0	0
Q2FI05	0	1	1	0	0	0
Q2FZI6	0	1	1	0	0	0
A5IRW0	0	1	1	0	0	0
Q2YX50	0	1	1	0	0	0
Q5HH11	0	1	1	0	0	0
A6QFT1	0	1	1	0	0	0
P67543	0	1	1	0	0	0
P67544	0	1	1	0	0	0
Q6GI11	0	1	1	0	0	0
Q6GAE0	0	1	1	0	0	0
Q8NX88	0	1	1	0	0	0
B9DQ42	0	1	1	0	0	0
Q5HQ97	0	1	1	0	0	0
Q8CT27	0	1	1	0	0	0
Q4L582	0	1	1	0	0	0
Q49WJ7	0	1	1	0	0	0
Q3K3Z7	0	1	1	0	0	0
P67545	0	1	1	0	0	0
P67546	0	1	1	0	0	0
Q9KY50	0	1	1	0	0	0
C0MB61	0	1	1	0	0	0
A8AUA2	0	1	1	0	0	0
B4SL92	0	1	1	0	0	0
B2FJP9	0	1	1	0	0	0
Q8DWK8	0	1	1	0	0	0
Q04N19	0	1	1	0	0	0
P0DD60	0	1	1	0	0	0
B5E5J9	0	1	1	0	0	0
Q5XEF2	0	1	1	0	0	0
C1C9V4	0	1	1	0	0	0
Q8P310	0	1	1	0	0	0
Q1JE78	0	1	1	0	0	0
Q1JP34	0	1	1	0	0	0
Q1JJ80	0	1	1	0	0	0
Q1J934	0	1	1	0	0	0
B1I7V8	0	1	1	0	0	0
B8ZJN3	0	1	1	0	0	0
Q48VY9	0	1	1	0	0	0
Q97T99	0	1	1	0	0	0
P0DD61	0	1	1	0	0	0
B5XJ20	0	1	1	0	0	0
Q8DRM1	0	1	1	0	0	0
A4VYK5	0	1	1	0	0	0
C0MC89	0	1	1	0	0	0

Q9F1T4	0	1	1	0	0	0
A4VSB5	0	1	1	0	0	0
Q03MZ6	0	1	1	0	0	0
B9DSR6	0	1	1	0	0	0
C1CBM7	0	1	1	0	0	0
C1CHW2	0	1	1	0	0	0
C1CNS9	0	1	1	0	0	0
Q67KG3	0	1	1	0	0	0
Q31R91	0	1	1	0	0	0
A5GIF4	0	1	1	0	0	0
Q7TTX6	0	1	1	0	0	0
Q0IDE8	0	1	1	0	0	0
Q3B083	0	1	1	0	0	0
Q3AN13	0	1	1	0	0	0
Q0AW31	0	1	1	0	0	0
P74741	0	1	1	0	0	0
Q8DIN5	0	1	1	0	0	0
Q9X0X6	0	1	1	0	0	0
B0KBQ1	0	1	1	0	0	0
B0K3Q8	0	1	1	0	0	0
Q8RC55	0	1	1	0	0	0
B5YLE5	0	1	1	0	0	0
Q31II8	0	1	1	0	0	0
C4LA41	0	1	1	0	0	0
Q116T4	0	1	1	0	0	0
C5CL84	0	1	1	0	0	0
A5F3U8	0	1	1	0	0	0
Q9KV80	0	1	1	0	0	0
C3LQN2	0	1	1	0	0	0
Q5E257	0	1	1	0	0	0
B5FC70	0	1	1	0	0	0
A7MXG0	0	1	1	0	0	0
Q87KT0	0	1	1	0	0	0
B7VM57	0	1	1	0	0	0
Q8DD06	0	1	1	0	0	0
Q7MGT5	0	1	1	0	0	0
Q8D244	0	1	1	0	0	0
Q8PQ19	0	1	1	0	0	0
Q3BY85	0	1	1	0	0	0
Q4UZD2	0	1	1	0	0	0
B0RN27	0	1	1	0	0	0
Q8PD47	0	1	1	0	0	0
Q2P866	0	1	1	0	0	0
B2SRB2	0	1	1	0	0	0
Q5H5H7	0	1	1	0	0	0
B2I4L7	0	1	1	0	0	0

Q9PC10	0	1	1	0	0	0
B0U7A0	0	1	1	0	0	0
Q87D58	0	1	1	0	0	0
A1JIJ7	0	1	1	0	0	0
A7FNG6	0	1	1	0	0	0
Q1C1V9	0	1	1	0	0	0
B2K130	0	1	1	0	0	0
Q8ZAR3	0	1	1	0	0	0
A9R8E1	0	1	1	0	0	0
Q1CN60	0	1	1	0	0	0
A4TS14	0	1	1	0	0	0
Q54QE4	0	0	0	1	0	1
P20054	0	1	1	0	0	1
P05990	0	1	1	0	0	1
O93937	0	1	0	0	0	1
P27708	0	1	1	0	0	1
P08955	0	1	1	0	0	1
Q09794	0	1	0	0	0	1
Q91437	0	1	1	0	0	1
P07259	0	1	0	0	0	1
Q8YSY4	0	1	0	1	0	0
P0C6W1	0	1	1	0	0	0
P0C6V9	0	1	1	0	0	0
P0C6W0	0	1	1	0	0	0
P0C6W2	0	1	1	0	0	0
P0C6W3	0	1	1	0	0	0
P0C6W4	0	1	1	0	0	0
P0C6W5	0	1	1	0	0	0
P0C6W6	0	1	1	0	0	0
P0C6V7	0	1	1	0	0	0
P0C6V8	0	1	1	0	0	0
Q08534	0	1	1	0	0	0
P0C6W7	0	1	1	0	0	0
P0C6W8	0	1	1	0	0	0
P0C6W9	0	1	1	0	0	0
P0C6X0	0	1	1	0	0	0
K9N7C7	0	1	1	0	0	0
P0C6X1	0	1	1	0	0	0
P0C6X2	0	1	1	0	0	0
P0C6X3	0	1	1	0	0	0
P0C6X4	0	1	1	0	0	0
P0C6X5	0	1	1	0	0	0
P0C6X6	0	1	1	0	0	0
P0C6X7	0	1	1	0	0	0
P0C6X8	0	1	1	0	0	0
P0C6X9	0	1	1	0	0	0

P0C6Y0	0	1	1	0	0	0
P0C6Y5	0	1	1	0	0	0
Q98VG9	0	1	1	0	0	0
O71189	0	1	1	0	0	0
P0C6Y1	0	1	1	0	0	0
P0C6Y2	0	1	1	0	0	0
P0C6Y3	0	1	1	0	0	0
Q83045	0	1	1	0	0	0
P0C6Y4	0	1	1	0	0	0
Q008X6	0	1	1	0	0	0
Q64962	0	1	1	0	0	0
Q65667	0	1	1	0	0	0
Q9DRA1	0	1	1	0	0	0
Q6YNQ7	0	1	1	0	0	0
P69514	0	1	1	0	0	0
Q91QZ3	0	1	1	0	0	0
P37987	0	1	1	0	0	0
P22168	0	1	1	0	0	0
Q8UZB6	0	1	1	0	0	0
Q67704	0	1	1	0	0	0
Q67724	0	1	1	0	0	0
Q918W3	0	1	1	0	0	0
B1PS76	0	1	1	0	0	0
P27328	0	1	1	0	0	0
P27327	0	1	1	0	0	0
Q9YRB3	0	1	1	0	0	0
P15095	0	1	1	0	0	0
P89659	0	1	1	0	0	0
Q84133	0	1	1	0	0	0
Q07518	0	1	1	0	0	0
Q84687	0	1	1	0	0	0
P89657	0	1	1	0	0	0
P29098	0	1	1	0	0	0
Q9QBU0	0	1	1	0	0	0
P20951	0	1	1	0	0	0
P17965	0	1	1	0	0	0
P22657	0	1	1	0	0	0
P09395	0	1	1	0	0	0
P22591	0	1	1	0	0	0
Q07630	0	1	1	0	0	0
P17779	0	1	1	0	0	0
Q05983	0	1	1	0	0	0
Q89249	0	1	1	0	0	0
P89202	0	1	1	0	0	0
Q04575	0	1	1	0	0	0
P28897	0	1	1	0	0	0

Q6YI57	0	1	1	0	0	0
P18339	0	1	1	0	0	0
P90211	0	1	1	0	0	0
P03586	0	1	1	0	0	0
Q9YQ08	0	1	1	0	0	0
P30738	0	1	1	0	0	0
O93058	0	1	1	0	0	0
Q98745	0	1	1	0	0	0
Q9Q1T8	0	1	1	0	0	0
P89676	0	1	1	0	0	0
P03587	0	1	1	0	0	0
Q9YKD6	0	1	1	0	0	0
Q9J942	0	1	1	0	0	0
P05079	0	1	1	0	0	0
Q88920	0	1	1	0	0	0
P09498	0	1	1	0	0	0
P15402	0	1	1	0	0	0
Q66220	0	1	1	0	0	0
P66014	0	1	1	0	0	0
Q54089	0	1	1	0	0	0
O54003	0	1	0	0	0	1
Q9YCB6	0	0	1	0	1	0
O67037	0	0	1	0	1	0
Q97ZZ8	0	0	1	0	1	0
Q971T7	0	0	1	0	1	0
Q9YC75	0	0	1	0	1	0
O67226	0	0	1	0	1	0
Q97ZF5	0	0	1	0	1	0
Q975P6	0	0	1	0	1	0
O29238	0	0	1	0	1	0
Q58907	0	0	1	0	1	0
Q9UZ86	0	0	1	0	1	0
Q8ZXT5	0	0	1	0	1	0
P95479	0	0	1	0	1	0
O58530	0	0	1	0	1	0
Q08582	0	0	1	0	1	0
P74759	0	0	1	0	1	0
Q6F598	0	0	1	0	1	0
O51934	0	0	1	0	1	0
Q8R979	0	0	1	0	1	0
Q5WL39	0	1	0	0	1	0
Q12362	0	0	1	0	1	0
P47924	0	0	1	1	0	0
Q6Z234	0	0	1	1	0	0
Q0E079	0	0	1	1	0	0
A3MZA2	0	0	1	1	0	0

B3H0P8	0	0	1	1	0	0
B0BTN8	0	0	1	1	0	0
P50855	0	0	1	1	0	0
O66679	0	0	1	1	0	0
A7Z675	0	0	1	1	0	0
C3P7P7	0	0	1	1	0	0
C3LIX7	0	0	1	1	0	0
A0RIB3	0	0	1	1	0	0
P51695	0	0	1	1	0	0
Q81MB6	0	0	1	1	0	0
B7JLW6	0	0	1	1	0	0
Q731I5	0	0	1	1	0	0
B7IWM5	0	0	1	1	0	0
C1EQY5	0	0	1	1	0	0
B7HAY4	0	0	1	1	0	0
B7HNM8	0	0	1	1	0	0
A7GSD5	0	0	1	1	0	0
B9IWX4	0	0	1	1	0	0
Q818X6	0	0	1	1	0	0
Q635H0	0	0	1	1	0	0
Q5LHT1	0	0	1	1	0	0
Q64YT3	0	0	1	1	0	0
Q6HE54	0	0	1	1	0	0
Q5WH08	0	0	1	1	0	0
P17620	0	0	1	1	0	0
Q8A528	0	0	1	1	0	0
A6KWQ7	0	0	1	1	0	0
A9VG50	0	0	1	1	0	0
C0ZKW2	0	0	1	1	0	0
Q9PLJ5	0	0	1	1	0	0
Q9Z734	0	0	1	1	0	0
O84736	0	0	1	1	0	0
A0Q3H7	0	0	1	1	0	0
O24752	0	0	1	1	0	0
A4QEG9	0	0	1	1	0	0
Q8NQ52	0	0	1	1	0	0
Q11WK6	0	0	1	1	0	0
C5D3N0	0	0	1	1	0	0
A0QI09	0	0	1	1	0	0
B1MCA4	0	0	1	1	0	0
P0A5V1	0	0	1	1	0	0
A1KIK4	0	0	1	1	0	0
C1AN60	0	0	1	1	0	0
A4TC13	0	0	1	1	0	0
B2HP67	0	0	1	1	0	0
Q741F1	0	0	1	1	0	0

A5U2B7	0	0	1	1	0	0
P0A5V0	0	0	1	1	0	0
A0PPL6	0	0	1	1	0	0
A1T8K1	0	0	1	1	0	0
Q5YTP3	0	0	1	1	0	0
A6LHN0	0	0	1	1	0	0
Q3B2I6	0	0	1	1	0	0
B4SE30	0	0	1	1	0	0
B2RIG7	0	0	1	1	0	0
Q7MWK9	0	0	1	1	0	0
B4S5Y8	0	0	1	1	0	0
A4SFY4	0	0	1	1	0	0
C0ZZE5	0	0	1	1	0	0
Q0S0K2	0	0	1	1	0	0
A8LY38	0	0	1	1	0	0
A4X639	0	0	1	1	0	0
Q5HF07	0	0	1	1	0	0
Q99TA0	0	0	1	1	0	0
Q7A511	0	0	1	1	0	0
Q6GFT5	0	0	1	1	0	0
Q6G8G1	0	0	1	1	0	0
Q8NW14	0	0	1	1	0	0
Q5HNE3	0	0	1	1	0	0
Q8CNU2	0	0	1	1	0	0
Q4L7B1	0	0	1	1	0	0
Q49YJ7	0	0	1	1	0	0
Q0AXM5	0	0	1	1	0	0
P74104	0	0	1	1	0	0
Q9X2E6	0	0	1	1	0	0
B0KAI2	0	0	1	1	0	0
B0K0Y9	0	0	1	1	0	0
B1H0I0	0	0	1	1	0	0
P50853	1	0	1	0	0	0
O66534	1	0	1	0	0	0
P70814	1	0	1	0	0	0
P17618	1	0	1	0	0	0
Q89AB0	1	0	1	0	0	0
Q9PLJ6	1	0	1	0	0	0
Q9Z735	1	0	1	0	0	0
O84735	1	0	1	0	0	0
O24750	1	0	1	0	0	0
P25539	1	0	1	0	0	0
P44326	1	0	1	0	0	0
P71677	1	0	1	0	0	0
P19811	0	1	1	0	0	0
Q06502	0	1	1	0	0	0

Q83017	0	1	1	0	0	0
Q9YN02	0	1	1	0	0	0
Q8B912	0	1	1	0	0	0
Q04561	0	1	1	0	0	0
Q9WJB2	0	1	1	0	0	0
A0MD28	0	1	1	0	0	0
Q68772	0	1	1	0	0	0
P21325	0	1	1	0	0	0
P0AG24	0	1	1	0	0	0
P33247	0	0	0	1	1	0
P54924	0	0	0	1	1	0
P55348	0	0	0	1	1	0
Q2PGG3	0	0	0	1	1	0
A0JN14	0	0	0	1	1	0
Q54HH2	0	0	0	1	1	0
Q9GZT4	0	0	0	1	1	0
Q9QZX7	0	0	0	1	1	0
A2XWA9	0	0	0	1	1	0
Q7XSN8	0	0	0	1	1	0
Q76EQ0	0	0	0	1	1	0
O59791	0	0	0	1	1	0
A8AH80	0	1	0	1	0	0
A7MF59	0	1	0	1	0	0
Q9EXP2	0	1	0	1	0	0
A7ZME5	0	1	0	1	0	0
B7US19	0	1	0	1	0	0
B7MA32	0	1	0	1	0	0
B7L5N2	0	1	0	1	0	0
Q7ADI4	0	1	0	1	0	0
B5Z4B3	0	1	0	1	0	0
B7NTV6	0	1	0	1	0	0
B7MV59	0	1	0	1	0	0
B7M0N5	0	1	0	1	0	0
C4ZE2	0	1	0	1	0	0
B1XFY8	0	1	0	1	0	0
A8A0M6	0	1	0	1	0	0
A1ABL8	0	1	0	1	0	0
Q0THE9	0	1	0	1	0	0
Q8FH54	0	1	0	1	0	0
B1IQ76	0	1	0	1	0	0
P77444	0	1	0	1	0	0
B7N516	0	1	0	1	0	0
B6IBB9	0	1	0	1	0	0
B1LE56	0	1	0	1	0	0
Q1RBB6	0	1	0	1	0	0
A4W9R3	0	1	0	1	0	0

Q6D625	0	1	0	1	0	0
B7LQ96	0	1	0	1	0	0
B5XQH2	0	1	0	1	0	0
A6TAE4	0	1	0	1	0	0
C6DKM6	0	1	0	1	0	0
Q7N3U5	0	1	0	1	0	0
B5F7C4	0	1	0	1	0	0
A9MEP3	0	1	0	1	0	0
Q57PR2	0	1	0	1	0	0
B5FIM3	0	1	0	1	0	0
B5QVS9	0	1	0	1	0	0
B5RAT4	0	1	0	1	0	0
B4TGK9	0	1	0	1	0	0
B4T4R6	0	1	0	1	0	0
A9N142	0	1	0	1	0	0
B4TUT5	0	1	0	1	0	0
Q8XF77	0	1	0	1	0	0
Q7CQN5	0	1	0	1	0	0
A8GDU4	0	1	0	1	0	0
B2U2I4	0	1	0	1	0	0
Q321D9	0	1	0	1	0	0
Q7UAH4	0	1	0	1	0	0
Q3Z233	0	1	0	1	0	0
Q8D2J7	0	1	0	1	0	0
A7FHJ2	0	1	0	1	0	0
Q1C761	0	1	0	1	0	0
B2K5J4	0	1	0	1	0	0
Q8D0M6	0	1	0	1	0	0
A9QZC9	0	1	0	1	0	0
Q1CIJ6	0	1	0	1	0	0
A4TIP2	0	1	0	1	0	0
Q66A22	0	1	0	1	0	0
B1JJ48	0	1	0	1	0	0
P22291	0	1	0	1	0	0
P25239	0	1	1	0	0	0
Q1LRV9	0	0	0	1	1	0
Q0VZ68	0	0	0	1	1	0
B8ZV93	0	0	0	1	1	0
Q92F56	0	1	0	0	0	1
Q724J4	0	1	0	0	0	1
Q92215	1	1	0	0	0	0
Q947C4	0	0	0	1	1	0
Q675L4	0	0	0	1	1	0
Q50EK2	0	0	0	1	1	0
Q38710	0	0	0	1	1	0
A0R6E0	0	0	1	0	1	0

O07176	0	0	1	0	1	0
O28668	0	1	0	1	0	0
P57366	0	0	0	1	1	0
P42393	0	0	0	1	1	0
P59459	0	0	0	1	1	0
O68427	0	0	0	1	1	0
Q44603	0	0	0	1	1	0
P06560	0	0	0	1	1	0
Q8X7B7	0	0	0	1	1	0
P00909	0	0	0	1	1	0
P46451	0	0	0	1	1	0
Q9ZJU8	0	0	0	1	1	0
O25867	0	0	0	1	1	0
P57855	0	0	0	1	1	0
P24920	0	0	0	1	1	0
Q8Z7D9	0	0	0	1	1	0
P00910	0	0	0	1	1	0
Q9KST5	0	0	0	1	1	0
P22098	0	0	0	1	1	0
Q8ZEG8	0	0	0	1	1	0
P18483	0	0	0	1	1	0
P05328	0	0	0	1	1	0
Q92411	0	0	0	1	1	0
P0CN87	0	0	0	1	1	0
P27710	0	0	0	1	1	0
P0CN86	0	0	0	1	1	0
P00904	0	1	0	1	0	0
P06531	0	0	0	1	1	0
P00908	0	0	0	1	1	0
P24773	0	0	0	1	1	0
P25170	0	0	0	1	1	0
P00905	0	1	0	1	0	0
Q44471	1	0	0	1	0	0
P70787	1	0	0	1	0	0
O34296	1	0	0	1	0	0
P70792	1	0	0	1	0	0
O34295	1	0	0	1	0	0
P42958	1	0	0	1	0	0
Q07163	0	1	1	0	0	0
P07023	1	0	0	0	1	0
Q02287	1	0	0	0	1	0
Q9LDN2	0	1	0	1	0	0
Q8RZA1	0	1	0	1	0	0
Q42586	0	1	0	1	0	0
P31754	0	1	0	1	0	0
P09556	0	1	0	1	0	0

Q01637	0	1	0	1	0	0
P11172	0	1	0	1	0	0
P13439	0	1	0	1	0	0
Q25566	0	1	0	1	0	0
O13527	0	1	1	0	0	0
Q12490	0	1	1	0	0	0
Q12193	0	1	1	0	0	0
Q12491	0	1	1	0	0	0
P25384	0	1	1	0	0	0
Q03855	0	1	1	0	0	0
Q99231	0	1	1	0	0	0
Q07793	0	1	1	0	0	0
P0C2I2	0	1	1	0	0	0
P0C2I3	0	1	1	0	0	0
Q12472	0	1	1	0	0	0
Q03494	0	1	1	0	0	0
Q07791	0	1	1	0	0	0
Q03612	0	1	1	0	0	0
Q03619	0	1	1	0	0	0
P0CX63	0	1	1	0	0	0
Q12141	0	1	1	0	0	0
Q12269	0	1	1	0	0	0
Q12316	0	1	1	0	0	0
Q12337	0	1	1	0	0	0
P0CX64	0	1	1	0	0	0
Q99315	0	1	1	0	0	0
O13535	0	1	1	0	0	0
P0C2J7	0	1	1	0	0	0
Q7LHG5	0	1	1	0	0	0
Q9UTK9	0	1	1	0	0	0
P47098	0	1	1	0	0	0
P47100	0	1	1	0	0	0
P47024	0	1	1	0	0	0
Q12088	0	1	1	0	0	0
P0C2I5	0	1	1	0	0	0
P0C2I6	0	1	1	0	0	0
P0C2I7	0	1	1	0	0	0
P0C2J3	0	1	1	0	0	0
P0C2J5	0	1	1	0	0	0
Q04711	0	1	1	0	0	0
Q03434	0	1	1	0	0	0
Q04214	0	1	1	0	0	0
Q04670	0	1	1	0	0	0
Q12112	0	1	1	0	0	0
Q99337	0	1	1	0	0	0
Q12273	0	1	1	0	0	0

Q92393	0	1	1	0	0	0
Q12113	0	1	1	0	0	0
Q12501	0	1	1	0	0	0
Q12414	0	1	1	0	0	0
P0C2I9	0	1	1	0	0	0

Supplementary Material S2. Division of amino acids into three different groups for different physicochemical properties

Property	Group 1	Group 2	Group 3
Hydrophobicity			
State	1.Polar	2.Neutral	3.Hydrophobicity
Amino acid	RKEDQN	GASTPHY	CLVIMFW
Normalized VDWW			
State	1.(0-2.78)	2.(2.95-4.0)	3.(4.03-8.08)
Amino acid	GASTPD	NVEQIL	MHKFRYW
Polarity			
State	1.(4.9-6.2)	2.(8.0-9.2)	3.(10.4-13.0)
Amino acid	LIFWCMVY	CPNVEQIL	KMHFRYW
Charge			
State	1.Positive	2.Neutral	3.Negative
Amino acid	KR	ANCQGHILMFPSTWYV	DE
Secondary Structure			
State	1.Helix	2.Strand	3.coil
Amino acid	EALMQKRH	VIYCWFT	GNPSD
Solvent Accessibility			
State	1.Buried	2.Exposed	3.Intermediate
Amino acid	ALFCGIVW	RKQEND	MPSTHY
Polarizability			
State	1.(0-0.108)	2.(0.128-0.186)	3.(0.219-0.409)
Amino acid	GASDT	CPNVEQIL	KMHFRYW

Supplementary Material S3. RAkEL Algorithm

In order to better understand the RAkEL Algorithm, we introduce the concept of k -labelsets and notation that is subsequently used. The first steps is the process of obtaining k -labelsets, let $L = \{\lambda_i\}, i = 1..|L|$ be the set of labels in a multi-label classification domain. In addition, k -labelsets are the set $Y \subseteq L$ with $k = |Y|$. Next we introduce the term L^k which is the set of all distinct k -labelsets on L and the size of it is given by the binomial coefficient: $|L^k| = \binom{|L|}{k}$. In the second steps, the RAkEL algorithm iteratively constructs an ensemble of m Label Powerset (LP) classifiers. At each iteration, $i = 1..m$, it randomly selects a k -labelset Y_i from L^k without replacement. And then it learns an LP classifier $h_i: X \rightarrow P(Y_i)$. The ensemble production process of RAkEL is given in Fig 1 [1] below.

Input: Number of models m , size of labelset k , set of labels L , training set D
Output: An ensemble of LP classifiers h_i and corresponding k -labelsets Y_i

$R \leftarrow L^k$;
for $i \leftarrow 1$ **to** $\min(m, |L^k|)$ **do**
 $Y_i \leftarrow$ a k -labelset randomly selected from R ;
 train an LP classifiers $h_i: X \rightarrow P(Y_i)$ on D ;
 $R \leftarrow R \setminus \{Y_i\}$;

Fig 1. The ensemble production process of RAkEL

In particular, the number of iterations is a user-specified parameter with acceptable values ranging from 1 to $|L^k|$. The size of the labelsets (k) is another user-specified parameter with meaningful values ranging from 2 to $|L| - 1$. In this study, default parameters $k = 3$ and $m = |L| = 6$ were adopted, and we used RF classifier for LP single-label classification tasks.

REFERENCE

[1] Tsoumakas G, Vlahavas I. Random k -labelsets: An ensemble method for multilabel classification.

Berlin: Springer; 2007.

Supplementary Material S4. MLKNN algorithm

In the first place, some notations [1] should be introduced for better understanding MLKNN. For an instance x and its corresponding label set $Y \subseteq \mathcal{Y}$, we suppose KNNs are considered in the MLKNN method. Let $\vec{y}_x$ be the class vector for instance x , where its l th component $\vec{y}_x(l)$ ($l \in \mathcal{Y}$) takes the value of 1 if $l \in Y$ and 0 otherwise. What's more, $N(x)$ is defined as the set of KNNs of x identified in the training set. Therefore, a *membership counting* vector could be defined based on the label sets of these neighbors

$$\vec{C}_x(l) = \sum_{a \in N(x)} \vec{y}_a(l), \quad l \in \mathcal{Y} \quad (1)$$

Where $\vec{C}_x(l)$ counts the number of neighbors of x belonged to the l th class.

For the test instance t , MLKNN determines its KNNs $N(t)$ in the training set. Next, let H_1^l denotes event that t has label l , and then H_0^l denotes the event that t has not label l . Further, we use E_j^l ($j \in \{0, 1, \dots, K\}$) to represent the event that exactly j instance which have label l exist among the KNNs of t . Hence, based on the membership counting vector $\vec{C}_t$, we denote the category vector $\vec{y}_t$ using the MAP principle below

$$\vec{y}_t(l) = \arg \max_{b \in \{0, 1\}} P(H_b^l | E_{\vec{C}_t(l)}^l), \quad l \in \mathcal{Y} \quad (2)$$

The Bayesian rule can also be written as

$$\begin{aligned} \vec{y}_t(l) &= \arg \max_{b \in \{0, 1\}} \frac{P(H_b^l) P(E_{\vec{C}_t(l)}^l | H_b^l)}{P(E_{\vec{C}_t(l)}^l)} \\ &= \arg \max_{b \in \{0, 1\}} P(H_b^l) P(E_{\vec{C}_t(l)}^l | H_b^l) \end{aligned} \quad (3)$$

For the purpose of determining the category vector $\vec{y}_t$, all the information needed is the prior probabilities $P(H_b^l)$ ($l \in \mathcal{Y}, b \in \{0, 1\}$) and the posterior probabilities $P(E_j^l | H_b^l)$ ($j \in \{0, 1, \dots, K\}$). In brief, these prior and posterior probabilities can all be directly estimated from the training set based on frequency counting.

REFERENCE

[1] Zhang M-L, Zhou Z-H. ML-KNN: A lazy learning approach to multi-label learning. Pattern recognition. 2007;40(7):2038-2048.