

Prediction of interface residues in protein-protein complexes by a consensus
neural network method: Test against NMR data
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Dataset of 1,256 protein chains that form interfaces with other protein chains, used for
developing cons-PPISP.

PDB	Interface Partners	PDB	Interface Partners	PDB	Interface Partners
104IB	104IA_B	1eo2B	1eo2A_B	1jg5A	1jg5A_B
11asA	11asA_B	1eo6B	1eo6A_B	1jg8D	1jg8A_D
13pkC	13pkB_C	1ep3A	1ep3A_B	1jgmA	1jgmA_B
19hcB	19hcA_B	1ep3B	1ep3A_B	1jgtB	1jgtA_B
1a0aA	1a0aA_B	1epfB	1epfA_B	1jh2E	1jh2E_M
1a0eA	1a0eA_D	1eqrB	1eqrA_B	1jihA	1jihA_B
1a0fA	1a0fA_B	1eqwB	1eqwB_D	1jiwI	1jiwP_I
1a25B	1a25A_B	1eqzE	1eqzE_F	1jiwP	1jiwP_I
1a2zB	1a2zA_B	1eqzF	1eqzE_F	1jj2A	1jj2A_Y
1a3aC	1a3aA_C	1eqzG	1eqzG_H	1jj2Y	1jj2A_Y
1a4gA	1a4gA_B	1eqzH	1eqzG_H	1jjiC	1jjiC_D
1a4sC	1a4sC_D	1erzA	1erzA_B	1jk0A	1jk0A_B
1a4xA	1a4xA_B	1esgB	1esgA_B	1jk9A	1jk9A_B
1a6dA	1a6dA_B	1esjC	1esjA_C	1jk9B	1jk9A_B
1a6jB	1a6jA_B	1esmA	1esmA_B	1jkmB	1jkmA_B
1a74B	1a74A_B	1etwB	1etwA_B	1jljA	1jljA_B
1a79A	1a79A_B	1eudA	1eudA_B	1jlrC	1jlrA_C
1a7kB	1a7kB_C	1eudB	1eudA_B	1jltA	1jltA_B
1a8mB	1a8mA_B	1eumA	1eumA_F	1jlxA	1jlxA_B
1a92B	1a92B_D	1euvA	1euvA_B	1jm6A	1jm6A_B
1a96B	1a96A_B	1euvB	1euvA_B	1jm7A	1jm7A_B
1a9nC	1a9nC_D	1ev0A	1ev0A_B	1jm7B	1jm7A_B
1a9nD	1a9nC_D	1ew7I	1ew7I_C	1jmbC	1jmbB_C
1aa7A	1aa7A_B	1ewrB	1ewrA_B	1jmvA	1jmvA_B
1aa8A	1aa8A_B	1ewtB	1ewtA_B	1jmxA	1jmxA_G
1abrA	1abrA_B	1ex4A	1ex4A_B	1jmxG	1jmxA_G
1abrB	1abrA_B	1ex5A	1ex5A_D	1jn5A	1jn5A_B
1ad1A	1ad1A_B	1extA	1extA_B	1jn5B	1jn5A_B
1ad3A	1ad3A_B	1exzC	1exzC_D	1jnbA	1jnbA_L
1aduA	1aduA_B	1eyqB	1eyqA_B	1jocA	1jocA_B
1aerA	1aerA_B	1eyrA	1eyrA_B	1jprB	1jprA_B
1afa1	1afa1_2	1eyvB	1eyvA_B	1jpyA	1jpyA_B
1afrB	1afrB_C	1eyzA	1eyzA_B	1jq3A	1jq3A_D
1afvB	1afvA_B	1ez0A	1ez0A_D	1jqkD	1jqkC_D
1afwB	1afwA_B	1ezvA	1ezvA_B	1jqlA	1jqlA_B
1agqB	1agqA_B	1ezvB	1ezvA_B	1jr3C	1jr3C_D
1agrA	1agrA_E	1ezvC	1ezvC_D	1jr3D	1jr3C_D
1agrE	1agrA_E	1ezvD	1ezvC_D	1jraA	1jraA_B
1ah8B	1ah8A_B	1f05A	1f05A_B	1jroA	1jroA_B
1ahjC	1ahjC_D	1f06B	1f06A_B	1jroB	1jroA_B
1ahjD	1ahjC_D	1f07B	1f07A_B	1js3A	1js3A_B
1ahvB	1ahvA_B	1f13A	1f13A_B	1js8A	1js8A_B
1aihD	1aihC_D	1f15C	1f15B_C	1jscB	1jscA_B

1aipD	1aipB_D	1f17A	1f17A_B	1jswB	1jswB_C
1aj8A	1aj8A_B	1f1mC	1f1mC_D	1jtdA	1jtdA_B
1ajsA	1ajsA_B	1f28D	1f28C_D	1jtdB	1jtdA_B
1ajyB	1ajyA_B	1f2dA	1f2dA_B	1jtgB	1jtgA_B
1am7A	1am7A_C	1f2il	1f2il_J	1jumD	1jumD_E
1am9C	1am9C_D	1f2nC	1f2nB_C	1jv2A	1jv2A_B
1an2C	1an2A_C	1f34A	1f34A_B	1jv2B	1jv2A_B
1an3A	1an3A_B	1f34B	1f34A_B	1jvmB	1jvmA_B
1an3B	1an3A_B	1f37B	1f37A_B	1jw9B	1jw9B_D
1an7A	1an7A_B	1f3cA	1f3cA_B	1jw9D	1jw9B_D
1aocB	1aocA_B	1f3mA	1f3mA_C	1jxaB	1jxaB_C
1aojA	1aojA_B	1f3mC	1f3mA_C	1jyoC	1jyoC_F
1aomB	1aomA_B	1f3uE	1f3uE_F	1jyoF	1jyoC_F
1apxA	1apxA_B	1f3uF	1f3uE_F	1jzrD	1jzrC_D
1apyA	1apyA_B	1f45A	1f45A_B	1jztB	1jztA_B
1apyB	1apyA_B	1f45B	1f45A_B	1k0rA	1k0rA_B
1aqfG	1aqfE_G	1f4kA	1f4kA_B	1k0uH	1k0uG_H
1aroL	1aroP_L	1f4nA	1f4nA_B	1k23C	1k23C_D
1aroP	1aroP_L	1f51B	1f51A_B	1k25B	1k25A_B
1arzD	1arzB_D	1f5mB	1f5mA_B	1k2fA	1k2fA_B
1as7A	1as7A_C	1f5qB	1f5qA_B	1k2oA	1k2oA_B
1aszB	1aszA_B	1f5vA	1f5vA_B	1k32C	1k32C_D
1atjD	1atjA_D	1f5zC	1f5zB_C	1k3eB	1k3eA_B
1atnD	1atnA_D	1f6dA	1f6dA_B	1k3fA	1k3fA_D
1auiA	1auiA_B	1f6mA	1f6mA_B	1k3sA	1k3sA_B
1auiB	1auiA_B	1f6yA	1f6yA_B	1k50B	1k50B_D
1auyC	1auyB_C	1f75A	1f75A_B	1k5jB	1k5jA_B
1av1B	1av1A_B	1f7oB	1f7oB_C	1k67A	1k67A_B
1avaA	1avaA_C	1f7tD	1f7tD_F	1k69A	1k69B_A
1avaC	1avaA_C	1f8gA	1f8gA_C	1k69B	1k69B_A
1avoA	1avoA_B	1f8mA	1f8mA_B	1k6yB	1k6yA_B
1avoB	1avoA_B	1f8rB	1f8rB_D	1k6zA	1k6zA_B
1aw2J	1aw2J_K	1f8vA	1f8vA_B	1k74A	1k74A_D
1aw7A	1aw7A_B	1f8yB	1f8yA_B	1k74D	1k74A_D
1awbA	1awbA_B	1f9aA	1f9aA_F	1k8iA	1k8iA_B
1ax4B	1ax4A_B	1fagB	1fagB_D	1k8kC	1k8kC_G
1az3B	1az3A_B	1fakT	1fakL_T	1k8kD	1k8kD_F
1azyB	1azyA_B	1faxL	1faxA_L	1k8kF	1k8kD_F
1b04B	1b04A_B	1fbmA	1fbmA_B	1k8kG	1k8kC_G
1b06C	1b06C_E	1fc4A	1fc4A_B	1k90C	1k90C_F
1b0pB	1b0pA_B	1fcbA	1fcbA_B	1kc6A	1kc6A_B
1b15A	1b15A_B	1fcdA	1fcdA_C	1kczA	1kczA_B
1b25B	1b25A_B	1fcdC	1fcdA_C	1kezA	1kezA_B
1b34A	1b34A_B	1fchA	1fchA_B	1kfqA	1kfqA_B
1b34B	1b34A_B	1fduC	1fduC_D	1kfuL	1kfuL_S
1b35A	1b35A_C	1fe6A	1fe6A_B	1kgpD	1kgpC_D
1b35C	1b35A_C	1ff5A	1ff5A_B	1khhA	1khhA_B
1b3qB	1b3qA_B	1fftG	1fftF_G	1kigl	1kigH_I
1b3tB	1b3tA_B	1ffvC	1ffvA_C	1kkeC	1kkeB_C
1b43A	1b43A_B	1fggA	1fggA_B	1kktA	1kktA_B
1b4aA	1b4aA_F	1fh6C	1fh6B_C	1klaA	1klaA_B
1b4uC	1b4uC_D	1fhwB	1fhwA_B	1kncA	1kncA_C

1b4uD	1b4uC_D	1fiuD	1fiuA_D	1knyA	1knyA_B
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1b65B	1b65B_C	1ffF	1ffF_R	1kobA	1kobA_B
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1b6cD	1b6cC_D	1fk8A	1fk8A_B	1kplD	1kplC_D
1b6sB	1b6sA_B	1fl7B	1fl7A_B	1kvdC	1kvdC_D
1b7gQ	1b7gO_Q	1flcA	1flcA_B	1kvdD	1kvdC_D
1b8gB	1b8gA_B	1flcB	1flcA_B	1lbeA	1lbeA_B
1b98M	1b98A_M	1flmA	1flmA_B	1lcpA	1lcpA_B
1b9ID	1b9IC_D	1floB	1floB_C	1lehA	1lehA_B
1b9nA	1b9nA_B	1fmaE	1fmaD_E	1lgbA	1lgbA_B
1b9yA	1b9yA_B	1fmd1	1fmd1_2	1liaK	1liaK_L
1b9yB	1b9yA_B	1fn9A	1fn9A_B	1liaL	1liaK_L
1baiB	1baiA_B	1fnnA	1fnnA_B	1ljrA	1ljrA_B
1bbhA	1bbhA_B	1fo0B	1fo0A_B	1lktD	1lktD_F
1bbpA	1bbpA_C	1foeA	1foeA_B	1lmdA	1lmdA_B
1bcmA	1bcmA_B	1fohC	1fohA_C	1logD	1logC_D
1bd7B	1bd7A_B	1fosE	1fosE_F	1ltrF	1ltrF_G
1bdfB	1bdfA_B	1fosF	1fosE_F	1lylA	1lylA_C
1bdvB	1bdvA_B	1fp3A	1fp3A_B	1mabA	1mabA_B
1be3B	1be3A_B	1fpn1	1fpn1_3	1mabB	1mabA_B
1bfmB	1bfmA_B	1fq1A	1fq1A_B	1mahA	1mahA_F
1bfrT	1bfrS_T	1fqvA	1fqvA_B	1mahF	1mahA_F
1bg3A	1bg3A_B	1fqvB	1fqvA_B	1meeA	1meeA_I
1bgmN	1bgmN_O	1fr1A	1fr1A_B	1meel	1meeA_I
1bh8A	1bh8A_B	1fr3D	1fr3C_D	1mgsA	1mgsA_B
1bh8B	1bh8A_B	1frfL	1frfS_L	1mhlB	1mhlB_D
1bihB	1bihA_B	1frfS	1frfS_L	1mhlD	1mhlB_D
1bjaB	1bjaA_B	1fs0E	1fs0E_G	1mioC	1mioC_D
1bjfA	1bjfA_B	1fs0G	1fs0E_G	1mioD	1mioC_D
1bjoA	1bjoA_B	1fsgA	1fsgA_C	1mj2A	1mj2A_B
1bjpA	1bjpA_B	1ft1A	1ft1A_B	1mjhB	1mjhA_B
1bjyA	1bjyA_B	1ft8C	1ft8B_C	1mkaA	1mkaA_B
1bk5A	1bk5A_B	1ft9A	1ft9A_B	1mlpA	1mlpA_B
1bkdR	1bkdR_S	1ftjA	1ftjA_C	1mntA	1mntA_B
1bkdS	1bkdR_S	1ftrD	1ftrC_D	1mpoB	1mpoA_B
1blbC	1blbC_D	1fu1B	1fu1A_B	1mpyA	1mpyA_C
1blxA	1blxA_B	1fugA	1fugA_B	1mslA	1mslA_B
1blxB	1blxA_B	1fuiC	1fuiB_C	1mtyB	1mtyD_B
1bmlB	1bmlB_D	1fumC	1fumC_D	1mtyD	1mtyD_B
1bmlD	1bmlB_D	1fumD	1fumC_D	1nbaC	1nbaC_D
1bmqa	1bmqa_B	1fumN	1fumM_N	1ncvA	1ncvA_B
1bmqb	1bmqa_B	1fuxA	1fuxA_B	1ndlA	1ndlA_B
1bmv1	1bmv1_2	1fv4H	1fv4H_L	1nfiC	1nfiC_E
1bmv2	1bmv1_2	1fv4L	1fv4H_L	1nfiE	1nfiC_E
1bo1A	1bo1A_B	1fvpA	1fvpA_B	1nksA	1nksA_C
1bo4A	1bo4A_B	1fvcC	1fvcC_D	1nmtB	1nmtB_C
1bo6B	1bo6A_B	1fvvD	1fvvC_D	1ns1A	1ns1A_B
1bp7C	1bp7C_D	1fw3A	1fw3A_B	1nsiD	1nsiC_D
1bplA	1bplA_B	1fwxA	1fwxA_B	1ntcA	1ntcA_B
1bplB	1bplA_B	1fx3B	1fx3A_B	1nubB	1nubA_B
1bpoB	1bpoB_C	1fxoE	1fxoE_H	1nzyA	1nzyA_C

1bq7F	1bq7D_F	1fxtA	1fxtA_B	1oacB	1oacA_B
1bqhK	1bqhl_K	1fxwF	1fxwA_F	1occD	1occD_K
1bqqM	1bqqM_T	1fxzB	1fxzB_C	1occK	1occD_K
1bqqT	1bqqM_T	1fyfA	1fyfA_B	1ocrP	1ocrP_T
1br1A	1br1A_B	1fyhA	1fyhA_B	1ocrT	1ocrP_T
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1brsE	1brsB_E	1fzvA	1fzvA_B	1otgA	1otgA_C
1bthQ	1bthK_Q	1g0iB	1g0iA_B	1p32C	1p32B_C
1btkB	1btka_B	1g0oC	1g0oC_D	1pbiA	1pbiA_B
1buiC	1buiA_C	1g1aA	1g1aA_B	1pcfE	1pcfE_F
1bveA	1bveA_B	1g1jA	1g1jA_B	1pdgA	1pdgA_B
1bvnP	1bvnP_T	1g1kA	1g1kA_B	1pdkB	1pdkA_B
1bvnT	1bvnP_T	1g291	1g291_2	1pfkA	1pfkA_B
1bvp5	1bvp4_5	1g2cA	1g2cA_B	1pfsB	1pfsA_B
1bvsA	1bvsA_B	1g2cB	1g2cA_B	1pfzB	1pfzB_D
1bw0B	1bw0A_B	1g2iA	1g2iA_B	1pgjA	1pgjA_B
1bwvG	1bwvG_Y	1g2qA	1g2qA_B	1poiC	1poiC_D
1bwvY	1bwvG_Y	1g3iA	1g3iA_B	1poiD	1poiC_D
1bxrE	1bxrE_F	1g3jA	1g3jA_B	1powA	1powA_B
1bxrF	1bxrE_F	1g3jB	1g3jA_B	1poy3	1poy3_4
1bxzB	1bxzA_B	1g3kA	1g3kA_B	1preB	1preA_B
1byeB	1byeA_B	1g4uS	1g4uS_R	1prhA	1prhA_B
1byfA	1byfA_B	1g4yB	1g4yB_R	1prxA	1prxA_B
1bykA	1bykA_B	1g57B	1g57A_B	1ps1A	1ps1A_B
1c02A	1c02A_B	1g5cE	1g5cE_F	1psdA	1psdA_B
1c0mC	1c0mC_D	1g5pB	1g5pA_B	1psrA	1psrA_B
1c0wB	1c0wA_B	1g5qA	1g5qA_D	1ptoH	1ptoH_J
1c17J	1c17J_K	1g64B	1g64A_B	1ptoJ	1ptoH_J
1c1gD	1c1gC_D	1g69B	1g69A_B	1pyiA	1pyiA_B
1c28A	1c28A_B	1g6oA	1g6oA_B	1pymA	1pymA_B
1c39A	1c39A_B	1g6q1	1g6q1_2	1pysA	1pysA_B
1c3cB	1c3cA_B	1g6uB	1g6uA_B	1pysB	1pysA_B
1c4tA	1c4tA_C	1g73A	1g73A_B	1pytA	1pytA_C
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1c7oH	1c7oG_H	1g7cB	1g7cA_B	1qaaA	1qaaA_B
1c8bA	1c8bA_B	1g8eA	1g8eA_B	1qajA	1qajA_B
1c8nC	1c8nA_C	1g8jC	1g8jC_D	1qapA	1qapA_B
1c8uA	1c8uA_B	1g8jD	1g8jC_D	1qaxA	1qaxA_B
1c9sM	1c9sL_M	1g8mA	1g8mA_B	1qb2B	1qb2A_B
1cauA	1cauA_B	1g8qA	1g8qA_B	1qb3A	1qb3A_C
1cauB	1cauA_B	1g8rA	1g8rA_B	1qbiB	1qbiA_B
1cbkA	1cbkA_B	1g8yF	1g8yA_F	1qbkB	1qbkB_C
1ccwD	1ccwB_D	1g98A	1g98A_B	1qbkC	1qbkB_C
1cd1C	1cd1C_D	1g99A	1g99A_B	1qctA	1qctA_B
1cd34	1cd33_4	1g9nC	1g9nG_C	1qctB	1qctA_B
1cd3B	1cd3F_B	1g9nG	1g9nG_C	1qd1B	1qd1A_B
1cd3F	1cd3F_B	1g9qA	1g9qA_B	1qdbB	1qdbA_B
1cdcA	1cdcB_A	1gaqA	1gaqA_B	1qdlA	1qdlA_B
1ceeB	1ceeA_B	1gaqB	1gaqA_B	1qduA	1qduA_B
1cf1C	1cf1B_C	1garA	1garA_B	1qduB	1qduA_B

1cf4B	1cf4A_B	1gavA	1gavA_e	1qe0A	1qe0A_B
1cg2A	1cg2A_D	1gaxB	1gaxA_B	1qe5B	1qe5A_B
1cgil	1cgiE_I	1gczC	1gczB_C	1qexA	1qexA_B
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1ci0A	1ci0A_B	1gd9A	1gd9A_B	1qfjC	1qfjC_D
1ci6A	1ci6A_B	1gdhA	1gdhA_B	1qfxB	1qfxA_B
1ci6B	1ci6A_B	1gdtA	1gdtA_B	1qg7B	1qg7A_B
1cjxD	1cjxC_D	1gefA	1gefA_E	1qgeD	1qgeD_E
1ckjA	1ckjA_B	1gflA	1gflA_B	1qgeE	1qgeD_E
1ckmA	1ckmA_B	1gg1B	1gg1A_B	1qghA	1qghA_C
1cl1B	1cl1A_B	1gg2G	1gg2B_G	1qgnD	1qgnB_D
1cliC	1cliC_D	1gg5A	1gg5A_C	1qgtB	1qgtB_A
1cm9A	1cm9A_B	1gg9A	1gg9A_D	1qgwA	1qgwA_C
1cmxA	1cmxA_B	1ggmB	1ggmA_B	1qgwB	1qgwB_D
1cmxB	1cmxA_B	1ggxA	1ggxA_B	1qh4A	1qh4A_B
1cnoG	1cnoG_H	1gk1A	1gk1A_B	1qhbC	1qhbC_F
1cnt1	1cnt1_4	1gk1B	1gk1A_B	1qipD	1qipC_D
1colA	1colA_B	1gkIA	1gkIA_B	1qiuB	1qiuB_C
1cozB	1cozA_B	1gl2A	1gl2A_D	1qj2B	1qj2B_H
1cq3A	1cq3A_B	1gl2C	1gl2B_C	1qj5B	1qj5A_B
1cqxA	1cqxA_B	1gl2D	1gl2A_D	1qjsA	1qjsA_B
1csbA	1csbA_B	1gl3A	1gl3A_B	1qkiF	1qkiE_F
1csbB	1csbA_B	1gl4A	1gl4A_B	1ql0A	1ql0A_B
1csjA	1csjA_B	1gl4B	1gl4A_B	1qleA	1qleA_B
1csmA	1csmA_B	1glfY	1glfO_Y	1qleB	1qleA_B
1ct9A	1ct9A_D	1gmeA	1gmeA_B	1qlkB	1qlkA_B
1cu1B	1cu1A_B	1gmjB	1gmjB_C	1qlvA	1qlvA_B
1culA	1culA_B	1gmnA	1gmnA_B	1qlwA	1qlwA_B
1culB	1culA_B	1gmvA	1gmvA_B	1qmaC	1qmaC_D
1cviD	1cviC_D	1gn8A	1gn8A_B	1qmgA	1qmgA_B
1cvwL	1cvwL_H	1go3E	1go3E_F	1qmiC	1qmiC_D
1cwqA	1cwqA_B	1go3F	1go3E_F	1qmoE	1qmoA_E
1cwuA	1cwuA_B	1gosA	1gosA_B	1qo0E	1qo0D_E
1cx8A	1cx8A_B	1gpeB	1gpeA_B	1qo7A	1qo7A_B
1cxzB	1cxzA_B	1gpmA	1gpmA_C	1qo8A	1qo8A_D
1cyyB	1cyyA_B	1griA	1griA_B	1qolC	1qolA_C
1cz3B	1cz3A_B	1grnB	1grnA_B	1qorA	1qorA_B
1d02B	1d02A_B	1gtpB	1gtpB_I	1qp8A	1qp8A_B
1d0iH	1d0iF_H	1gtxA	1gtxA_B	1qpaA	1qpaA_B
1d2cB	1d2cA_B	1guhA	1guhA_B	1qppA	1qppA_B
1d2fB	1d2fA_B	1gupA	1gupA_B	1qq5A	1qq5A_B
1d2iA	1d2iA_B	1guxA	1guxA_B	1qq8A	1qq8A_B
1d2rE	1d2rB_E	1guxB	1guxA_B	1qqrA	1qqrA_D
1d2zC	1d2zC_D	1h4sA	1h4sA_B	1qqzA	1qqzA_F
1d2zD	1d2zC_D	1h54B	1h54A_B	1qrqB	1qrqB_D
1d3bG	1d3bG_H	1h5qF	1h5qF_G	1qs0A	1qs0A_B
1d3bH	1d3bG_H	1h6dA	1h6dA_C	1qs0B	1qs0A_B
1d3yB	1d3yA_B	1h6kC	1h6kC_Z	1qsdB	1qsdA_B
1d5fB	1d5fA_B	1h6kZ	1h6kC_Z	1qsfD	1qsfD_E
1d5sA	1d5sA_B	1h6pA	1h6pA_B	1qsjA	1qsjA_B
1d5sB	1d5sA_B	1h6vE	1h6vE_F	1qsmD	1qsmC_D

1d5wA	1d5wA_B	1h74A	1h74A_B	1qu7A	1qu7A_B
1d5xB	1d5xA_B	1h7eA	1h7eA_B	1qunA	1qunA_B
1d6jB	1d6jA_B	1h7sA	1h7sA_B	1qunB	1qunA_B
1d7aA	1d7aA_L	1h86B	1h86A_B	1quqA	1quqA_B
1d7kA	1d7kA_B	1h8eG	1h8eG_H	1quqB	1quqA_B
1d7mA	1d7mA_B	1h8eH	1h8eG_H	1qvbA	1qvbA_B
1d8hB	1d8hA_B	1h8vD	1h8vD_E	1qvcA	1qvcA_B
1d9eA	1d9eA_B	1h8yA	1h8yA_B	1qvcB	1qvcA_B
1d9kC	1d9kC_D	1h9tA	1h9tA_B	1qvcC	1qvcC_D
1db0B	1db0A_B	1hasB	1hasB_C	1qvcD	1qvcC_D
1dbdA	1dbdA_B	1hb5B	1hb5A_B	1raaD	1raaB_D
1dbfA	1dbfA_C	1hbmE	1hbmE_F	1rbIM	1rbIA_M
1dbqA	1dbqA_B	1hbmF	1hbmE_F	1rcsA	1rcsA_B
1dbtA	1dbtA_B	1hbWA	1hbWA_B	1rdyB	1rdyA_B
1dc1B	1dc1A_B	1hbxE	1hbxD_E	1rhgA	1rhgA_C
1dceA	1dceA_B	1hciB	1hciA_B	1rk2B	1rk2A_B
1dceB	1dceA_B	1hcxA	1hcxA_B	1rrpB	1rrpA_B
1dciA	1dciA_B	1he1A	1he1A_C	1rtnA	1rtnA_B
1dd3B	1dd3A_B	1hf2B	1hf2A_B	1sakC	1sakA_C
1ddzA	1ddzA_B	1hf9A	1hf9A_B	1sceC	1sceA_C
1de5A	1de5A_B	1hfeL	1hfeS_L	1sctH	1sctG_H
1debA	1debA_B	1hfeS	1hfeS_L	1serB	1serA_B
1delA	1delA_B	1hfyA	1hfyA_B	1sfcA	1sfcA_D
1derA	1derA_B	1hg3G	1hg3G_H	1sfcB	1sfcB_C
1devA	1devA_B	1hi0Q	1hi0P_Q	1sfcC	1sfcB_C
1devB	1devA_B	1hi9C	1hi9C_D	1sfcD	1sfcA_D
1dfjE	1dfjE_I	1hjrB	1hjrB_D	1sftA	1sftA_B
1dfjI	1dfjE_I	1hlhA	1hlhA_B	1shsA	1shsA_C
1dfoB	1dfoA_B	1hloA	1hloA_B	1sidB	1sidB_C
1dh3C	1dh3A_C	1hm6A	1hm6A_B	1smaB	1smaA_B
1dhkB	1dhkA_B	1hn2A	1hn2A_B	1smpI	1smpA_I
1dhmA	1dhmA_B	1hn5B	1hn5B_C	1smtB	1smtA_B
1di0A	1di0A_E	1hn5C	1hn5B_C	1sndA	1sndA_B
1diaB	1diaA_B	1hn5E	1hn5E_F	1soxA	1soxA_B
1dioA	1dioA_L	1hn5F	1hn5E_F	1spiA	1spiA_B
1dipB	1dipA_B	1hniA	1hniA_B	1swgC	1swgC_D
1dirC	1dirC_D	1hp0B	1hp0A_B	1t7pA	1t7pA_B
1dizA	1dizA_B	1hplA	1hplA_B	1t7pB	1t7pA_B
1dj0A	1dj0A_B	1hq6A	1hq6A_B	1tafA	1tafA_B
1dj3A	1dj3A_B	1hq6B	1hq6A_B	1tafB	1tafA_B
1dj8C	1dj8C_D	1hqmC	1hqmC_D	1tbaA	1tbaA_B
1djnA	1djnA_B	1hqmD	1hqmC_D	1tbaB	1tbaA_B
1dk0A	1dk0A_B	1hqsA	1hqsA_B	1tbqH	1tbqH_R
1dkfB	1dkfA_B	1hqz4	1hqz3_4	1tbqR	1tbqH_R
1dkgA	1dkgA_B	1hr7A	1hr7A_B	1tc2B	1tc2A_B
1dkiC	1dkiC_D	1hr7B	1hr7A_B	1tdtA	1tdtA_B
1dkrB	1dkrA_B	1hrkA	1hrkA_B	1thjA	1thjA_B
1dkyA	1dkyA_B	1hrtI	1hrtH_I	1tiiE	1tiiE_F
1dleA	1dleA_B	1hsjA	1hsjA_B	1tmf1	1tmf1_2
1dlmA	1dlmA_B	1hssA	1hssA_B	1tmf2	1tmf1_2
1dlpC	1dlpA_C	1ht2G	1ht2G_H	1tmqB	1tmqA_B
1dmlE	1dmlA_E	1hulA	1hulA_B	1toaA	1toaA_B

1dn1A	1dn1A_B	1hw5A	1hw5A_B	1tocT	1tocF_T
1dn1B	1dn1A_B	1hwyB	1hwyA_B	1trkB	1trkA_B
1dnpA	1dnpA_B	1hx1A	1hx1A_B	1trlA	1trlA_B
1doaB	1doaA_B	1hx1B	1hx1A_B	1tshA	1tshA_B
1dopA	1dopA_D	1hx3B	1hx3A_B	1tubA	1tubA_B
1dosA	1dosA_B	1hx8A	1hx8A_B	1tyfB	1tyfB_C
1dp4C	1dp4A_C	1hxmG	1hxmG_H	1ubpB	1ubpB_C
1dppE	1dppE_G	1hxs1	1hxs1_3	1ubpC	1ubpB_C
1dpsA	1dpsA_C	1hxs3	1hxs1_3	1udiE	1udiE_I
1dq8A	1dq8A_B	1hygA	1hygA_B	1udil	1udiE_I
1dqiA	1dqiA_C	1hyhA	1hyhA_C	1vcbA	1vcbA_B
1dqnA	1dqnA_B	1hynQ	1hynP_Q	1vfrA	1vfrA_B
1dqsA	1dqsA_B	1hyoB	1hyoA_B	1vscA	1vscA_B
1dqtB	1dqtA_B	1hyrB	1hyrB_A	1vsgA	1vsgA_B
1dqwC	1dqwC_D	1hzdE	1hzdE_F	1wafB	1wafA_B
1dr0B	1dr0A_B	1hzhH	1hzhH_L	1wdcA	1wdcA_B
1dtwA	1dtwA_B	1hzhL	1hzhH_L	1wdcB	1wdcA_B
1du3G	1du3G_L	1hzpA	1hzpA_B	1wgtA	1wgtA_B
1du3L	1du3G_L	1hzxA	1hzxA_B	1whtA	1whtA_B
1dvrA	1dvrA_B	1i09A	1i09A_B	1whtB	1whtA_B
1dwkH	1dwkC_H	1i0aA	1i0aA_C	1wq1G	1wq1R_G
1dxEA	1dxEA_B	1i0rB	1i0rA_B	1wtuA	1wtuA_B
1dxxA	1dxxA_B	1i0zA	1i0zA_B	1wwaY	1wwaX_Y
1dylB	1dylB_D	1i1dD	1i1dA_D	1xdtR	1xdtT_R
1dysA	1dysA_B	1i2mD	1i2mC_D	1xdtT	1xdtT_R
1dzbX	1dzbA_X	1i3kA	1i3kA_B	1xgmA	1xgmA_B
1dzbB	1dzbA_B	1i49A	1i49A_B	1xlbB	1xlbA_B
1e0aB	1e0aA_B	1i4gB	1i4gA_B	1xtcA	1xtcA_C
1e0fl	1e0fD_I	1i4uA	1i4uA_B	1xtcC	1xtcA_C
1e0jC	1e0jB_C	1i4yH	1i4yA_H	1xulA	1xulA_B
1e19A	1e19A_B	1i50A	1i50A_B	1xulB	1xulA_B
1e1cC	1e1cC_D	1i50B	1i50A_B	1xyfA	1xyfA_B
1e1cD	1e1cC_D	1i50C	1i50C_K	1yacA	1yacA_B
1e1eB	1e1eA_B	1i50K	1i50C_K	1yagG	1yagA_G
1e2aA	1e2aA_C	1i5IC	1i5IB_C	1yfoA	1yfoA_B
1e2kB	1e2kA_B	1i69A	1i69A_B	1ygpB	1ygpA_B
1e3aA	1e3aA_B	1i75B	1i75A_B	1yhaA	1yhaA_B
1e3aB	1e3aA_B	1i7cA	1i7cB_A	1ytfC	1ytfC_D
1e3eA	1e3eA_B	1i7cB	1i7cB_A	1ytfD	1ytfC_D
1e3mA	1e3mA_B	1i7oB	1i7oB_C	1zakA	1zakA_B
1e3vB	1e3vA_B	1i7qA	1i7qA_B	1zbdB	1zbdA_B
1e50A	1e50A_B	1i7qB	1i7qA_B	1zooA	1zooA_B
1e50B	1e50A_B	1i7xB	1i7xA_B	1zpdA	1zpdA_B
1e51A	1e51A_B	1i7xD	1i7xC_D	2a2uA	2a2uA_D
1e5dA	1e5dA_B	1i8dA	1i8dA_C	2bifA	2bifA_B
1e5IA	1e5IA_B	1i8fF	1i8fF_G	2btfA	2btfA_P
1e5nA	1e5nA_B	1i8tA	1i8tA_B	2btfP	2btfA_P
1e5xA	1e5xA_B	1i9bC	1i9bC_D	2btvB	2btvA_B
1e6aA	1e6aA_B	1ia9B	1ia9A_B	2cpgB	2cpgA_B
1e6cA	1e6cA_B	1iawB	1iawA_B	2dabB	2dabA_B
1e6eA	1e6eA_C	1ib1C	1ib1C_G	2lldA	2lldA_B
1e6yD	1e6yA_D	1ib1G	1ib1C_G	2eiaA	2eiaA_B

1e6zB	1e6zA_B	1ib4A	1ib4A_B	2ffhA	2ffhA_B
1e79I	1e79H_I	1ibrB	1ibrA_B	2fivA	2fivA_B
1e7pl	1e7pl_L	1ibyB	1ibyB_C	2g3pA	2g3pA_B
1e7pJ	1e7pJ_K	1icfC	1icfC_D	2glsB	2glsB_H
1e7pK	1e7pJ_K	1icfD	1icfC_D	2gsaA	2gsaA_B
1e7tA	1e7tA_B	1id1A	1id1A_B	2hapC	2hapC_D
1e8dA	1e8dA_B	1id5I	1id5H_I	2hckA	2hckA_B
1e8iA	1e8iA_B	1iesB	1iesB_E	2hrvA	2hrvA_B
1e8oC	1e8oC_D	1if3A	1if3A_B	2kinB	2kinA_B
1e8oD	1e8oC_D	1ig0B	1ig0A_B	2ligA	2ligA_B
1e8tB	1e8tA_B	1ig3A	1ig3A_B	2lynA	2lynA_D
1e92A	1e92A_B	1ih8A	1ih8A_B	2masB	2masB_C
1e9sA	1e9sA_B	1ihfA	1ihfA_B	2mjpA	2mjpA_B
1eaiD	1eaiB_D	1ihiA	1ihiA_B	2mspB	2mspB_C
1ebgA	1ebgA_B	1ihmB	1ihmA_B	2mtaH	2mtaH_L
1eboF	1eboD_F	1ihoA	1ihoA_B	2mtaL	2mtaH_L
1ebuA	1ebuA_B	1ihrB	1ihrA_B	2nadA	2nadA_B
1eceA	1eceA_B	1ii0B	1ii0A_B	2pcfA	2pcfA_B
1ecgB	1ecgA_B	1ii8A	1ii8A_B	2pcfB	2pcfA_B
1ecmB	1ecmA_B	1ii8B	1ii8A_B	2pflA	2pflA_B
1ecqA	1ecqA_C	1iieA	1iieA_C	2pjrF	2pjrF_G
1ecsA	1ecsA_B	1iivA	1iivA_B	2pjrG	2pjrF_G
1eejA	1eejA_B	1ijxA	1ijxA_C	2pspA	2pspA_B
1eerA	1eerA_B	1ik4A	1ik4A_F	2pviA	2pviA_B
1eerB	1eerA_B	1ill4	1ill4_G	2rtbB	2rtbB_D
1eesB	1eesA_B	1illG	1ill4_G	2scpA	2scpA_B
1ef0A	1ef0A_B	1ilm2	1ilm2_G	2spcA	2spcA_B
1ef1A	1ef1A_C	1ingA	1ingA_B	2sqcB	2sqcA_B
1ef1C	1ef1A_C	1ipsA	1ipsA_B	2tysA	2tysA_B
1ef8B	1ef8B_C	1iqcA	1iqcA_C	2tysB	2tysA_B
1efaB	1efaA_B	1iqpE	1iqpE_F	2utgA	2utgA_B
1efhB	1efhA_B	1iraX	1iraX_Y	2vsgA	2vsgA_B
1eflC	1eflC_D	1iraY	1iraX_Y	2vubH	2vubG_H
1efuD	1efuC_D	1irqB	1irqA_B	2wpoA	2wpoA_B
1efvA	1efvA_B	1itbA	1itbA_B	3crxA	3crxA_B
1efvB	1efvA_B	1j6wA	1j6wA_B	3ezbA	3ezbA_B
1efxA	1efxA_B	1j79A	1j79A_B	3ezbB	3ezbA_B
1efxB	1efxA_B	1j7IA	1j7IA_B	3gtuB	3gtuA_B
1eg1A	1eg1A_C	1j7nB	1j7nA_B	3kinA	3kinA_B
1eg5B	1eg5A_B	1ja1A	1ja1A_B	3kinB	3kinA_B
1eg9A	1eg9A_B	1jadA	1jadA_B	3pvaE	3pvaE_H
1eg9B	1eg9A_B	1jagA	1jagA_B	3tmkF	3tmkE_F
1egaB	1egaA_B	1jaxA	1jaxA_B	4aahA	4aahA_B
1egeA	1egeA_D	1jb0A	1jb0A_B	4aahB	4aahA_B
1ehiA	1ehiA_B	1jb0C	1jb0C_D	4ctsA	4ctsA_B
1ehkA	1ehkA_B	1jb0D	1jb0C_D	4hmgA	4hmgA_B
1ehkB	1ehkA_B	1jb7A	1jb7A_B	4hmgB	4hmgA_B
1ei1A	1ei1A_B	1jb7B	1jb7A_B	4kbpB	4kbpB_C
1ej1B	1ej1A_B	1jbqE	1jbqE_F	4monA	4monA_B
1ej6C	1ej6B_C	1jc5B	1jc5A_B	4monB	4monA_B
1ejbC	1ejbC_D	1jchA	1jchA_B	4pgaA	4pgaA_B
1ejiB	1ejiA_B	1jchB	1jchA_B	4pgmB	4pgmB_D

1ek2B	1ek2A_B	1jczA	1jczA_B	4prcL	4prcL_M
1ek4D	1ek4C_D	1jd1A	1jd1A_B	4prcM	4prcL_M
1ek9A	1ek9A_B	1jdvB	1jdvB_C	4proA	4proA_C
1ekfA	1ekfA_B	1je5B	1je5A_B	4proC	4proA_C
1ekjG	1ekjG_H	1jehB	1jehA_B	4ts1A	4ts1A_B
1el6A	1el6A_C	1jeqA	1jeqA_B	5galA	5galA_B
1elqA	1elqA_B	1jeqB	1jeqA_B	6stdA	6stdA_B
1elxA	1elxA_B	1jfeA	1jfeA_B	7ahlB	7ahlB_C
1emsA	1emsA_B	1jfeB	1jfeA_B	7mdhB	7mdhA_B
1emvA	1emvA_B	1jfiA	1jfiA_B	7r1rA	7r1rA_B
1emvB	1emvA_B	1jfiB	1jfiA_B	9rubA	9rubA_B
1en7A	1en7A_B	1jfzB	1jfzA_B		