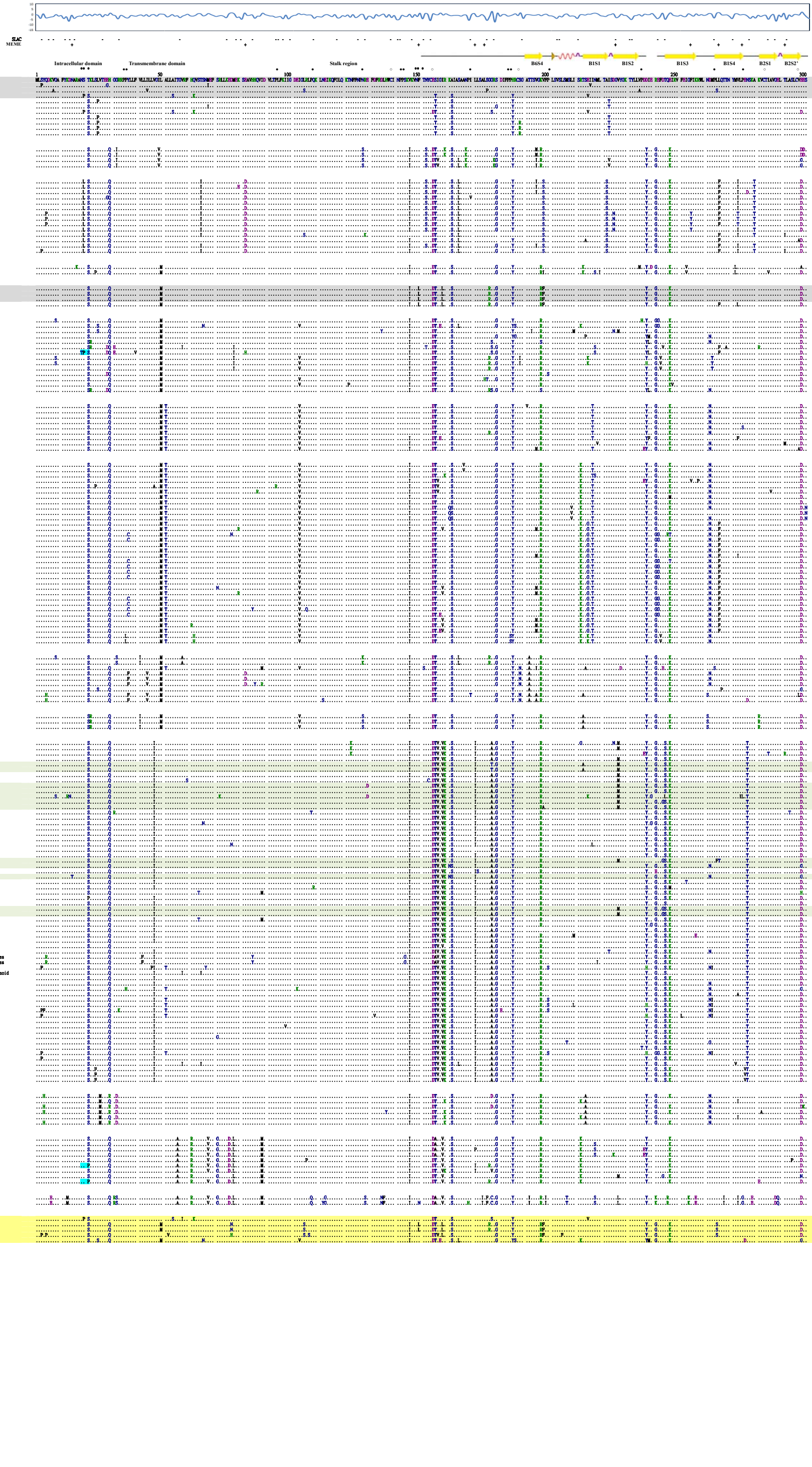
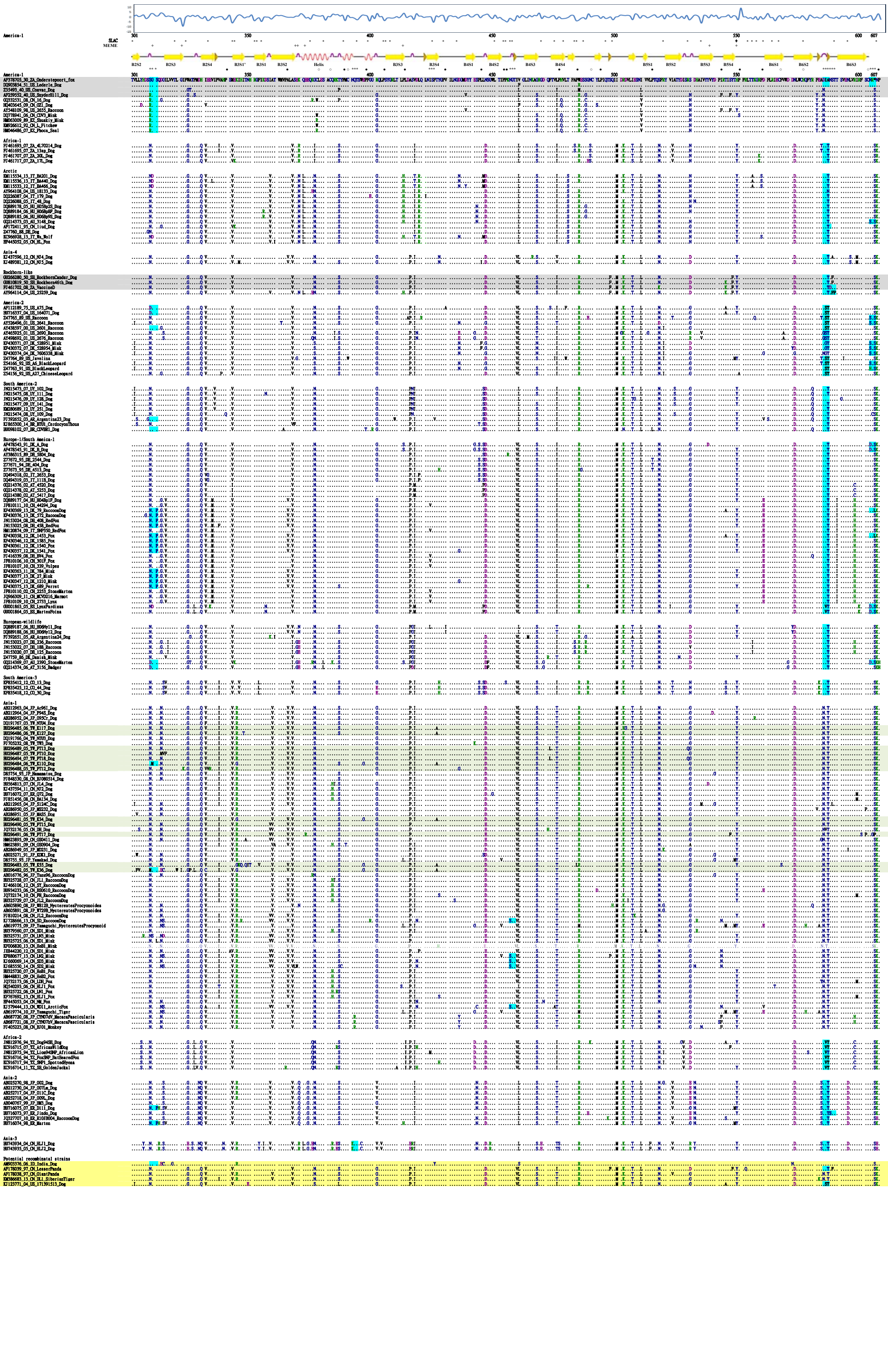

SLAC
MEME
Intracellular domain
Transmembrane domain
Stalk region
B6S4
B1S1
B1S2
B1S3
B1S4
B2S1
B2S2'
1
50
100
150
200
250
300
America-1
Africa-1
Arctic
Rockborn-like
America-2
Europe-1/South America-1
South America-2
European-wildlife
South America-3
Asia-1
Asia-2
Asia-3
Potential recombinatal strains


America-1
SLAC
MEME
B2S2
B2S3
B2S4
B3S1'
B3S1
B3S2
Helix
B3S3
B3S4
B4S1
B4S2
B4S3
B4S4
B5S1
B5S2
B5S3
B5S4
B6S1
B6S2
B6S3
America-1
AF378705_30_ZA_Onderstepoort_fox
DQ903854_51_US_Lederle_Dog
Z35493_40_US_Convac_Dog
AF259552_40_US_SnyderHill_Dog
GQ332531_08_CN_16_Dog
HQ403645_09_CN_GZ1_Dog
AY548109_98_US_2655_Raccoon
DQ778941_06_CN_CDV3_Mink
HM063009_89_KZ_Shuskiy_Mink
KM626612_92_CN_L_Fitchew
HM046486_07_KZ_Phoca_Seal
Africa-1
FJ461693_07_ZA_4L70214_Dog
FJ461695_07_ZA_13sp_Dog
FJ461707_07_ZA_20L_Dog
FJ461717_07_ZA_17L_Dog
Arctic
KM115534_13_IT_RA201_Dog
KM115536_13_IT_RA440_Dog
KM115533_12_IT_RA466_Dog
AY964108_04_US_18133_Dog
DQ226087_04_IT_179_Dog
DQ226088_05_IT_48_Dog
DQ889178_05_HU_HDSBy2S_Dog
DQ889184_06_HU_HDGBp8F_Dog
DQ889185_06_HU_HDGBp9S_Dog
GQ214373_03_AU_5148_Dog
AF172411_95_CN_liud_Dog
Z47760_88_US_Dog
KC966928_13_IT_Ha_Wolf
EF445052_05_CN_HL_Fox
Asia-4
KJ437596_12_CN_NI4_Dog
KJ489381_12_CN_NI5_Dog
Rockborn-like
GU266280_50_SB_RockbornCandur_Dog
GU810819_50_SB_Rockborn46th_Dog
FJ461702_08_ZA_VaccineD
AY964114_04_US_25259_Dog
America-2
AF112189_75_US_A75_Dog
HQ716337_04_US_164071_Dog
Z47765_89_US_Raccoon
AY326496_01_US_2641_Raccoon
AY438597_00_US_2601_Raccoon
AY465925_01_US_2690_Raccoon
AY498692_01_US_2676_Raccoon
KF430371_07_DK_528951_Mink
KF430372_07_DK_528954_Mink
KF430374_04_DK_7606338_Mink
Z47764_89_US_Javelina
Z54166_92_US_A6_BlackLeopard
Z47763_91_US_BlackLeopard
Z54156_92_US_A27_ChineseLeopard
South America-2
JN215473_07_UY_102_Dog
JN215475_08_UY_111_Dog
JN215476_09_UY_128_Dog
JN215477_09_UY_141_Dog
KM280689_12_UY_251_Dog
JN215474_08_UY_109_Dog
FJ392652_03_AR_Argentina23_Dog
KJ865300_14_BR_RTU1_CerdocyonThous
EU098102_07_BR_CDVBR1_Dog
Europe-1/South America-1
AF478543_91_DK_A_Dog
AF478545_91_DK_B_Dog
AY386315_89_DE_5804_Dog
Z77672_95_DE_2544_Dog
Z77671_94_DE_404_Dog
Z77673_95_DE_4513_Dog
DQ494318_02_IT_2653_Dog
DQ494319_03_IT_111B_Dog
GQ214376_02_AT_4520_Dog
GQ214378_02_AT_5253_Dog
GQ214380_02_AT_5417_Dog
DQ889177_04_HU_HD4Bp1F_Dog
JF810111_10_CH_44294_Dog
KF430369_13_DK_79_RaccoonDog
KF430376_13_DK_572_RaccoonDog
JN153024_08_DE_408_RedFox
JN153025_08_DE_458_RedFox
HM120874_09_IT_SNP350_RedFox
KF430358_12_DK_1453_Fox
KF430346_12_DK_1585_Fox
KF430361_12_DK_1540_Fox
KF430357_12_DK_1541_Fox
FJ416339_08_DE_BV4_Fox
JF810106_10_CH_301F_Fox
JF810107_10_CH_339_Vulpes
KF430363_11_DK_784_Mink
KF430377_13_DK_27_Mink
KF430347_12_DK_1210_Mink
KF430375_13_DK_689_Ferret
JF810110_02_CH_2253_StoneMarten
JQ966309_11_CH_MCVD216_Marmot
JF810109_10_CH_2733_Lynx
GU001863_05_ES_LynxPardinus
GU001864_05_ES_MartesPoina
European-wildlife
DQ889187_06_HU_HDGNy11_Dog
DQ889188_06_HU_HDGNy12_Dog
FJ392651_05_AR_Argentina24_Dog
JN153023_07_DE_236_Raccoon
JN153022_07_DE_188_Raccoon
JN153020_07_DE_125_Raccoon
Z47759_86_DK_Danish_Mink
GQ214369_07_AU_2390_StoneMarten
GQ214374_06_AT_3156_Badger
South America-3
KF835412_12_CO_13_Dog
KF835425_12_CO_44_Dog
KF835418_12_CO_30_Dog
Asia-1
AB210963_04_JP_Ac961_Dog
AB212964_04_JP_P94S_Dog
AB286952_04_JP_095Cr_Dog
DQ191767_03_TW_NTU4_Dog
EU296485_06_TW_E117_Dog
EU296486_06_TW_E127_Dog
DQ191766_04_TW_NTU3_Dog
FJ705232_08_TW_TW3_Dog
EU296489_05_TW_PT13_Dog
EU296487_05_TW_PT10_Dog
EU296494_07_TW_PT18_Dog
EU296484_06_TW_E110_Dog
EU296488_05_TW_PT12_Dog
DQ5754_93_JP_Hamamatsu_Dog
FJ848530_08_CN_BJ080514_Dog
HU564813_07_CN_IL4_Dog
KJ437594_11_CN_NI2_Dog
HQ716072_07_RU_G72_Dog
FJ851456_08_CN_Hu134_Dog
AB212965_04_JP_S124C_Dog
AB286950_05_JP_H2232_Dog
AB286951_05_JP_HA55_Dog
EU296481_05_TW_E34_Dog
EU296490_05_TW_PT15_Dog
JQ732176_05_CN_IH_Dog
EU296491_06_TW_PT17_Dog
HM623895_09_CN_GS0411_Dog
HM623891_09_CN_GS0904_Dog
AB286949_05_JP_HO231_Dog
AB025271_91_JP_KDK1_Dog
DQ5755_93_JP_Yamakad_Dog
EU296483_05_TW_K55_Dog
EU296482_05_TW_K36_Dog
AB016776_96_JP_Tanu96_RaccoonDog
EU525728_07_CN_IL1_RaccoonDog
KJ466105_12_CN_SY_RaccoonDog
HU934233_06_CN_HS0610_RaccoonDog
JQ732174_10_CN_FH_RaccoonDog
EU525729_07_CN_JL2_RaccoonDog
AB605890_08_JP_WB12B_NyctereutesProcyonoides
AB605891_08_JP_WT29B_NyctereutesProcyonoides
FJ810214_08_CN_JL2_RaccoonDog
KJ728666_13_CN_SD_RaccoonDog
AB619775_09_JP_Yamaguchi_NyctereutesProcyonoid
EU379560_07_CN_SD1_Mink
EU325731_07_CN_LN3_Mink
EU325725_06_CN_SD1_Mink
KP006820_13_CN_HeB1_Mink
JX844220_12_CN_SD1_Mink
KF880677_13_CN_LN2_Mink
KJ660069_14_CN_SD3_Mink
KJ685550_14_CN_SD2_Mink
EU325730_07_CN_HeB1_Fox
HM448831_09_CN_HeB2_Fox
JQ732173_06_CN_LDR_Fox
HQ540293_06_CN_HLJ1_Fox
EU325722_06_CN_LN1_Fox
KF767692_13_CN_HLJ1_Fox
EF445053_04_CN_NM_Fox
KJ579444_13_CN_WD11_ArcticFox
AB619774_10_JP_Yamaguchi_Tiger
AB587720_08_JP_CTN074V_MacacaFascicularis
AB587721_08_JP_CTN07hV_MacacaFascicularis
FJ405223_08_CN_BJ01_Monkey
Africa-2
JN812976_94_TZ_Dog94SH_Dog
KC916715_07_TZ_AfricanWildDog
JN812975_94_TZ_Lion94SNP_AfricanLion
KC916716_94_TZ_FocSNP_BatEarredFox
KC916717_94_TZ_SNP1_SpottedHyena
KC916714_11_TZ_SB_GoldenJackal
Asia-2
AB025270_98_JP_002_Dog
AB212730_04_JP_007Lm_Dog
AB252717_04_JP_011C_Dog
AB252718_04_JP_009L_Dog
AB040767_99_JP_HM3_Dog
EU716075_07_KR_D111_Dog
EU716073_97_KR_Jindo_Dog
JQ327707_10_KR_KIOUB004_RaccoonDog
EU716074_98_KR_Marten
Asia-3
EU743934_04_CN_HLJ1_Dog
EU743935_05_CN_HLJ2_Dog
Potential recombinatal strains
AB903376_06_ID_India_Dog
AF178039_97_CN_LesserPanda
AF178038_97_CN_GiantPanda
KM386683_13_CN_DL1_SiberianTiger
KJ123771_04_US_171391513_Dog