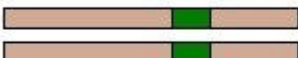


 Autosomal pair

~290-350 million years ago
Sex chromosomes
Appearance of MSY (*SRY* stops recombining)

 X
Y

~230-300 million years ago
Second significant spreading of MSY
(*RBMY*, *RPS4Y*)

 X
Y

~130-170 million years ago
Third significant spreading of MSY
(*SMCY*, *UBE1Y*)

 X
Y → Marsupial XY

~80-130 million years ago
Translocation that expands PARq

 X
Y

~80-130 million years ago
Fourth significant spreading of MSY
(*CASKP*, *DBY*, *BF1AY*, *TB4Y*, *UTY*, *ZFY*)

 X
Y → Non-humanoid eutherian XY

~30-50 million years ago
Fifth significant spreading of MSY
(*AMELY*, *ARSDP*, *ARSEP*, *GYG2P*, *KALP*, *PRKY*)

 X
Y → Humanoid XY

~3-4 million years ago
X to Y translocation that installs *PCDH1Y*

 X
Y → Human XY