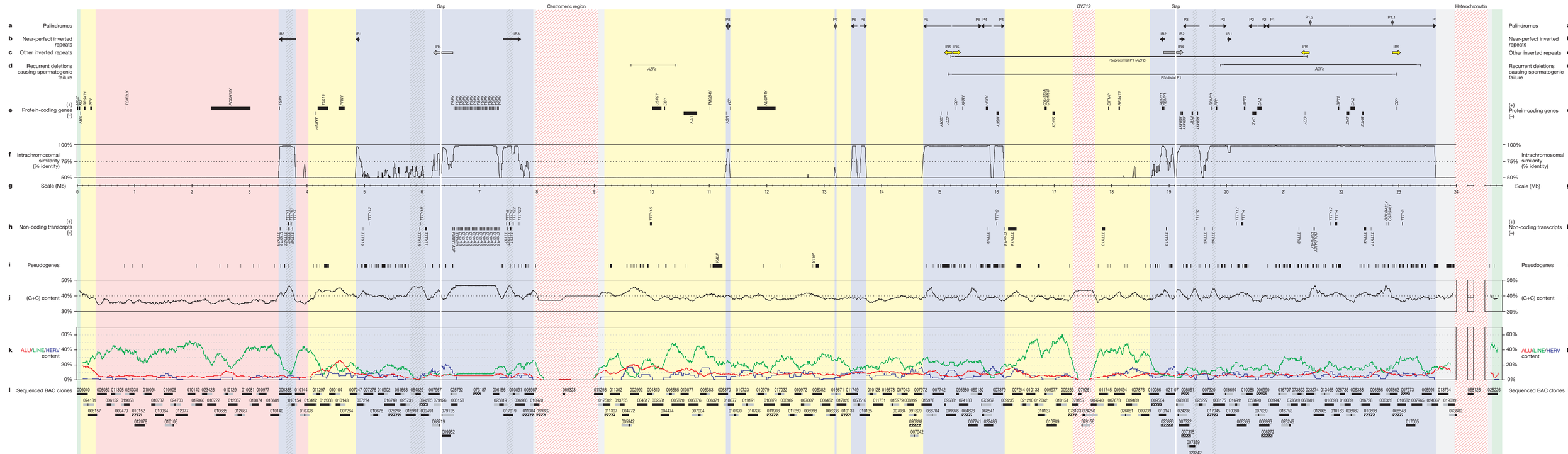
Gap
Centromeric region
DYZ19
Gap
Heterochromatin
a Palindromes
b Near-perfect inverted repeats
c Other inverted repeats
d Recurrent deletions causing spermatogenic failure
e Protein-coding genes (+) (–)
f Intrachromosomal similarity (% identity)
100%
75%
50%
g Scale (Mb)
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
h Non-coding transcripts (+) (–)
i Pseudogenes
j (G+C) content
50%
40%
30%
k ALU/LINE/HERV content
60%
40%
20%
0%
l Sequenced BAC clones
IR1
IR2
IR3
IR4
IR5
IR6
P1
P1.1
P1.2
P2
P3
P4
P5
P6
P7
P8
P5/proximal P1 (AZFb)
P5/distal P1
AZFa
AZFc
TSPY
TGIF2LY
PCDH11Y
SRY
RPS4Y1
ZFY
TBL1Y
PRKY
AMELY
USP9Y
DBY
UTY
TMSB4Y
KDM5D
EIF1AY
RPS4Y2
NLGN4Y
XKRY
CDY
HSFBY
CYorf15A
CYorf15B
SMCY
RBMY1
RBMY2
BPY2
DAZ
GAPDHP2
TTTY1
TTTY2
TTTY3
TTTY4
TTTY5
TTTY6
TTTY7
TTTY8
TTTY9
TTTY10
TTTY11
TTTY12
TTTY13
TTTY14
TTTY15
TTTY16
TTTY17
TTTY18
RBMY1AP
DAZ1P
ZNF45P
CSNK2A1Y
OFD1Y
PJA1P1
PJA1P2
PJA1P3
PJA1P4
PJA1P5
PJA1P6
PJA1P7
PJA1P8
PJA1P9
PJA1P10
PJA1P11
PJA1P12
PJA1P13
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PJA1P32
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PJA1P34
PJA1P35
PJA1P36
PJA1P37
PJA1P38
PJA1P39
PJA1P40