## **GREEN AUTOSOMES**

1 2 3 4 5 6 1b 2b 3b 4b 5b 6b

# A A a a a a a A A A A A

B b B B B b b b b B b B

C c c C C C C c c C c C

D d d D d d D D D d d D

E e E E e e e e E e e E

1 2 3 4 5 6 1b 2b 3b 4b 5b 6b

A A A A A A a a a a a a

B B B b b b b b b B B B

C C c c c C C C c c c c

D d D d D d D D d D d d

E e e E E e E E e e e E

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1 2 3 4 5 6 1b 2b 3b 4b 5b 6b

a a a a a a A A A A A A

b b b b B B B b b b b b

c c c C C c C c C c C C

d d D D d D d D d d D d

e E E E E E e e e e e e

**RED AUTOSOMES**

1 2 3 4 5 6 1b 2b 3b 4b 5b 6b

F F F F F f f f f f F F

G G g g g G G G G g G g

H H h H h h h H H H h h

I I i i I i i I I I I i

J j j j j j j j j J J J

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1 2 3 4 5 6 1b 2b 3b 4b 5b 6b

f f f f f F f f f F F F

G g g g G G G G g g g g

H h h h h h h H H h h H

I I I I I I i i i i i i

J j J J J j J j J J J j

1 2 3 4 5 6 1b 2b 3b 4b 5b 6b

F f f F F F F f f f F F

G g g g g G G G g g g G

H h H H H H h h h h H H

I I I i i i i i I I I I

J J J j j j j J j J J j

**ORANGE AUTOSOMES**

1 2 3 4 5 6 1b 2b 3b 4b 5b 6b

K K K K K k k k k k k k

L l l L L L L l l l L L

M m m m M m m m M M M M

N n N n n N n n n n n n

O o o O o O O O O o o O

1 2 3 4 5 6 1b 2b 3b 4b 5b 6b

K k k k k k K K K K K K

L l L l L l l l L L l l

M m m m m M m m M M M M

N n n n N N n n n n n n

O O o o O O O o o O O O

1 2 3 4 5 6 1b 2b 3b 4b 5b 6b

K k K k k K K k K k K k

L l l L L l L l L l L l

M m m M M m m M m M M m

N n n n n n N n n n N N

O o o O O O O O o O o O

**YELLOW AUTOSOMES**

1 2 3 4 5 6 1b 2b 3b 4b 5b 6b

P p p P P P p p p P P p

Q q q q q q Q Q q q q Q

R r R R r r r r R r r R

S s S s S s S s S s S s

T T t T t t T t T t t T

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1 2 3 4 5 6 1b 2b 3b 4b 5b 6b

P p p P p P p P P p P p

Q q q q q Q Q Q Q Q q q

R R r r r R R R r r r R

S s s s s S S s S s s S

T t t T t t T T T T t t

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1 2 3 4 5 6 1b 2b 3b 4b 5b 6b

P p p p p p P P P P P P

Q Q Q Q Q q q q q q q q

R r r r R r R R r r r R

S S s s S S s S S S s s

T t t t T t T T T t t t

**SEX CHROMOSOMES**—X/X chromosomes [pink or purple]

1 2 3 4 5 6 1b 2b 3b 4b 5b 6b

U U U U U U u u u u u u

V v v v V V V v v v v V

W w w w W w w w w w w W

$ @ @ @ $ $ $ @ @ @ @ $

Z z z Z z z z Z Z Z z z

- - - - + + + + + - - -

X X X X X X X X X X X X

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1 2 3 4 5 6 1b 2b 3b 4b 5b 6b

U U u u u u U U U u u U

V v v v v v V V V V V V

W W w w w w w w w w w w

$ @ @ $ $ $ $ @ @ @ @ @

Z z z z z Z Z Z Z z z z

+ - + - + - + - - - + +

X X X X X X X X X X X X

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1 2 3 4 5 6 1b 2b 3b 4b 5b 6b

U u u u u u U U U U U U

V v v v V V V v v v v v

W w w w w w w w w W W w

$ $ $ @ @ @ @ @ $ $ $ @

Z z z z z z z Z Z Z Z z

+ + + - - - - + + - + -

X X X X X X X X X X X X

**SEX CHROMOSOMES**  --X/Y chromosomes [blue]

1 2 3 4 5 6 1b 2b 3b 4b 5b 6b

U u u u u u u u u u u u

V v v V V V V V V V V v

W W W W W W W W w w w w

$ @ @ $ $ $

Z z z Z Z Z

+ - + - + -

X X X X X X Y Y Y Y Y Y

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1 2 3 4 5 6 1b 2b 3b 4b 5b 6b

u u u u u u u u u u u u

v v v v v v v v v V V V

w W W W w w w w W w w w

$ $ @ @ @ @

Z z z Z Z Z

- - - - + +

X X X X X X Y Y Y Y Y Y

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1 2 3 4 5 6 1b 2b 3b 4b 5b 6b

U U U U U u u u u u u u

V v v v v v v V V V V V

W W w w w w W W W w w w

$ @ $ $ $ @

Z z Z Z z z

+ + + + - -

X X X X X X Y Y Y Y Y Y