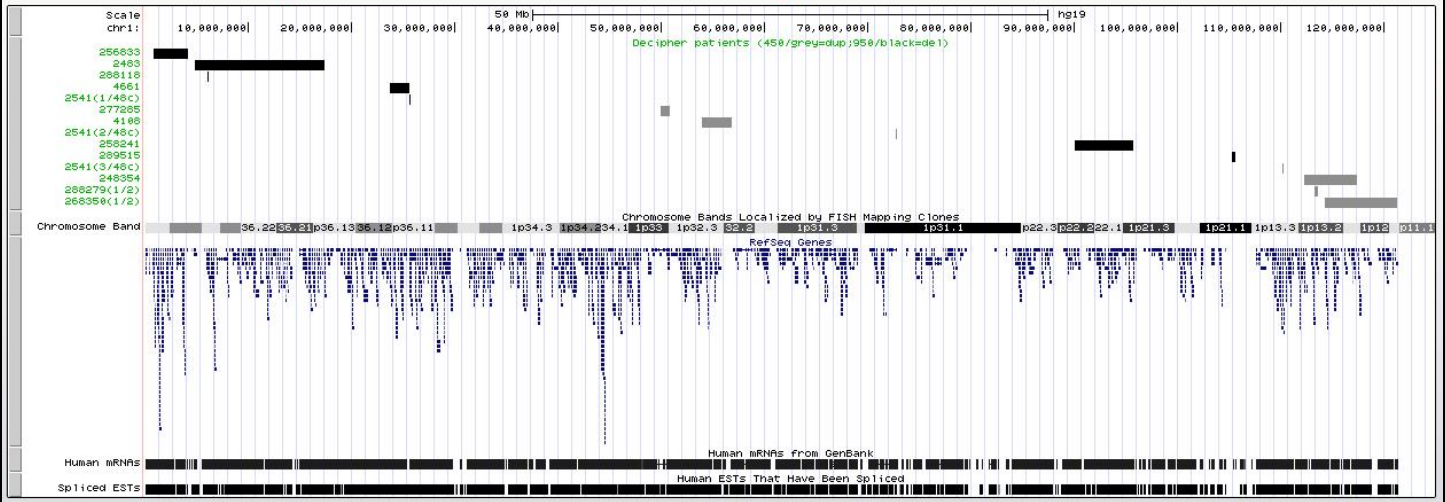


UCSC Genome Browser on Human Feb. 2009 (GRCh37/hg19) Assembly

move <<< << < > >> >>> zoom in 1.5x 3x 10x base zoom out 1.5x 3x 10x 100x

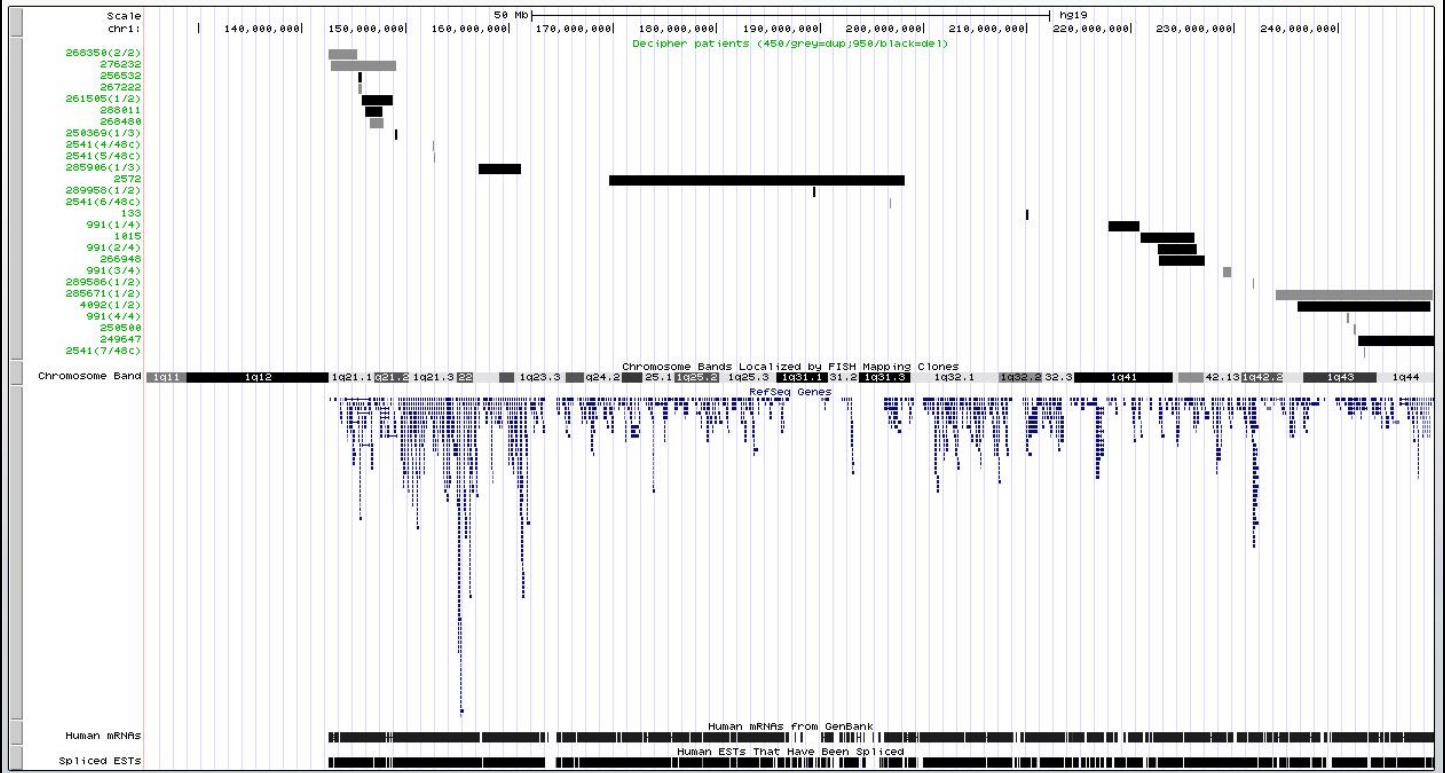
chr1:1-125,000,000 125,000,000 bp.



UCSC Genome Browser on Human Feb. 2009 (GRCh37/hg19) Assembly

move <<< << < > >> >>> zoom in 1.5x 3x 10x base zoom out 1.5x 3x 10x 100x

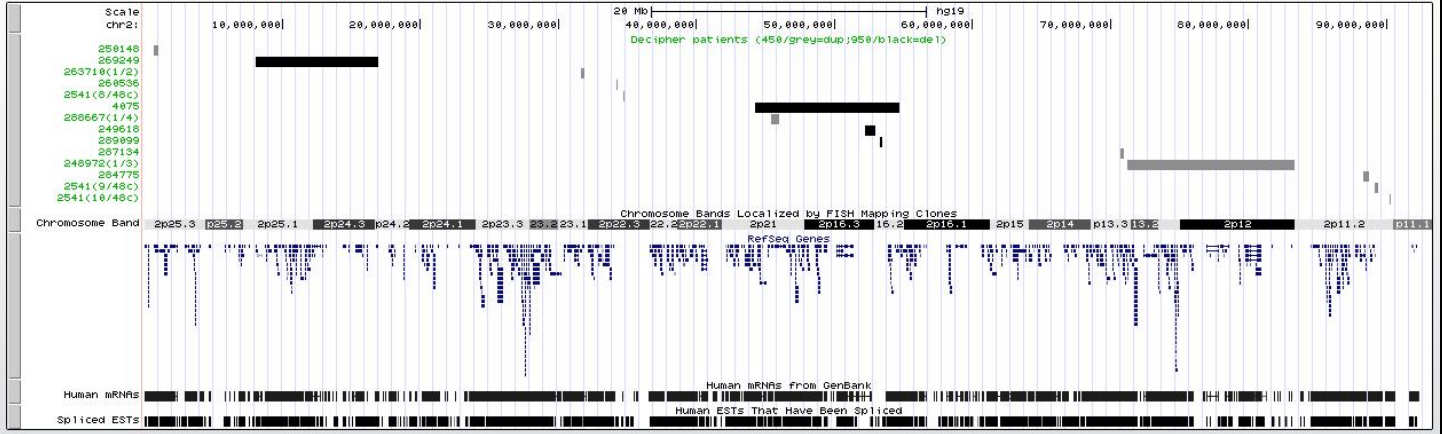
chr1:125,000,001-249,250,620 124,250,620 bp.



UCSC Genome Browser on Human Feb. 2009 (GRCh37/hg19) Assembly

move <<< << < > >> >>> zoom in 1.5x 3x 10x base zoom out 1.5x 3x 10x 100x

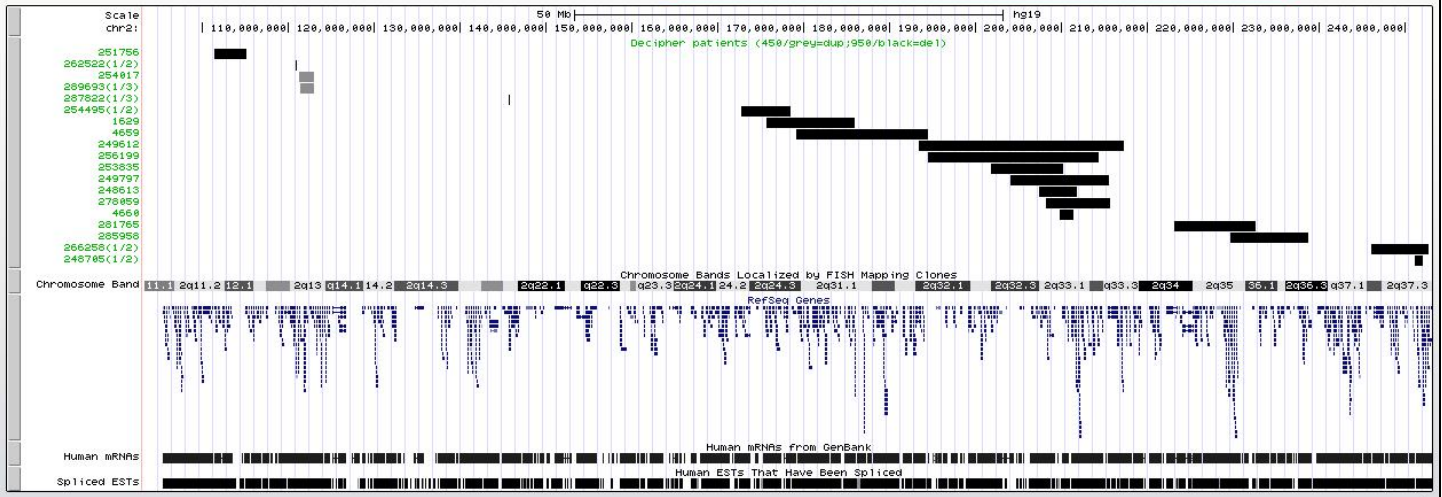
chr2:1-93,300,000 93,300,000 bp. enter position, gene symbol or search terms go



UCSC Genome Browser on Human Feb. 2009 (GRCh37/hg19) Assembly

move <<< << < > >> >>> zoom in 1.5x 3x 10x base zoom out 1.5x 3x 10x 100x

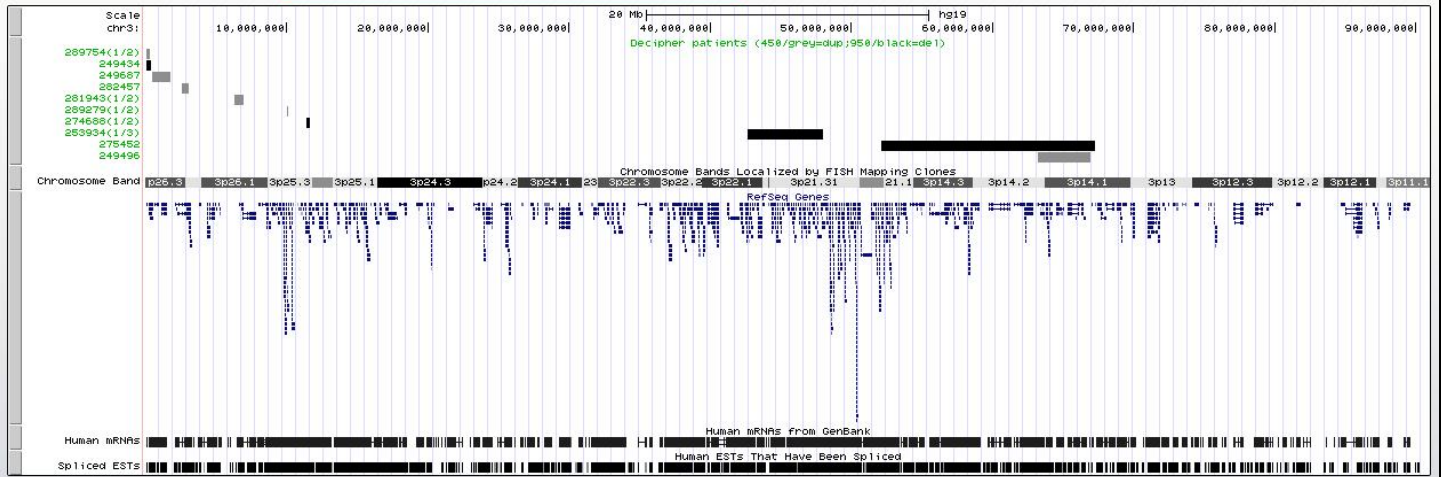
chr2:93,300,001-243,199,372 149,899,372 bp. enter position, gene symbol or search terms go



UCSC Genome Browser on Human Feb. 2009 (GRCh37/hg19) Assembly

move <<< << < > >> >>> zoom in 1.5x 3x 10x base zoom out 1.5x 3x 10x 100x

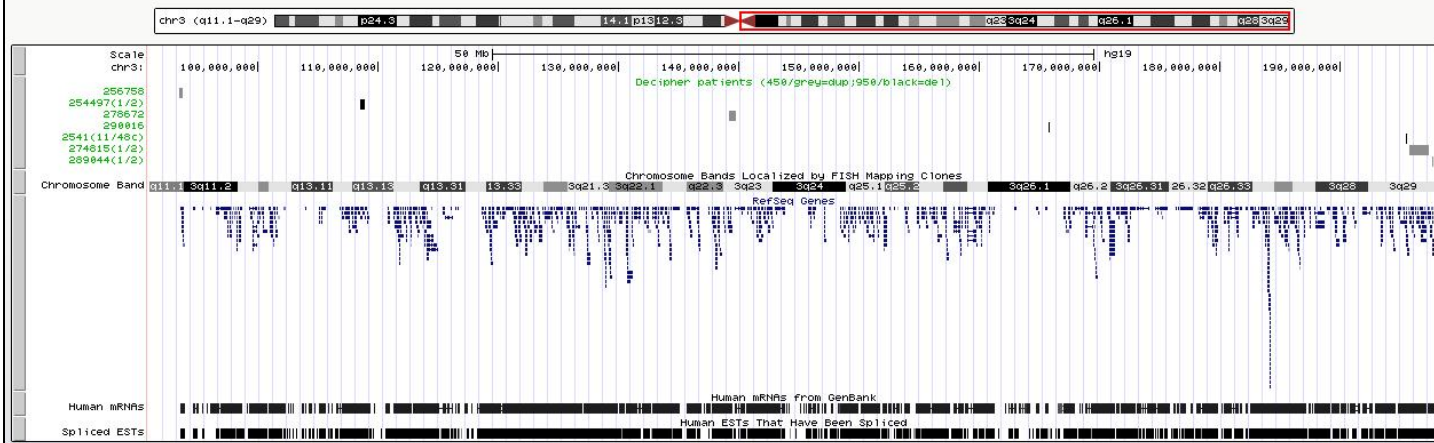
chr3:1-91,000,000 91,000,000 bp. enter position, gene symbol or search terms go



UCSC Genome Browser on Human Feb. 2009 (GRCh37/hg19) Assembly

move <<< << < > >> >>> zoom in 1.5x 3x 10x base zoom out 1.5x 3x 10x 100x

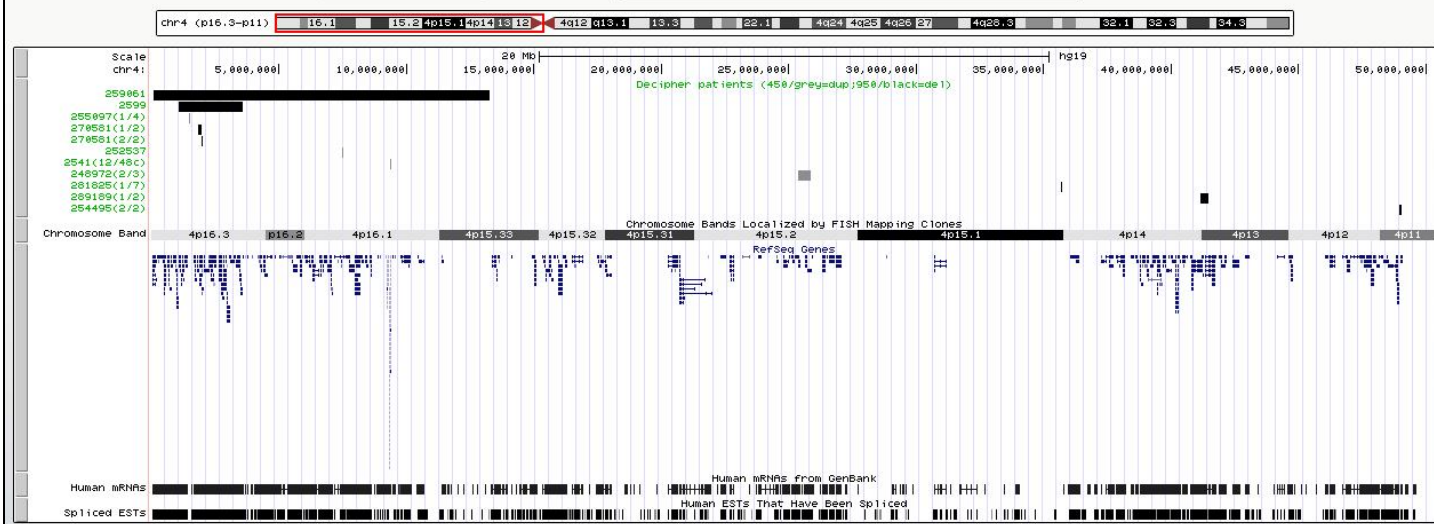
chr3:91,000,001-198,022,429 107,022,429 bp. enter position, gene symbol or search terms go



UCSC Genome Browser on Human Feb. 2009 (GRCh37/hg19) Assembly

move <<< << < > >> >>> zoom in 1.5x 3x 10x base zoom out 1.5x 3x 10x 100x

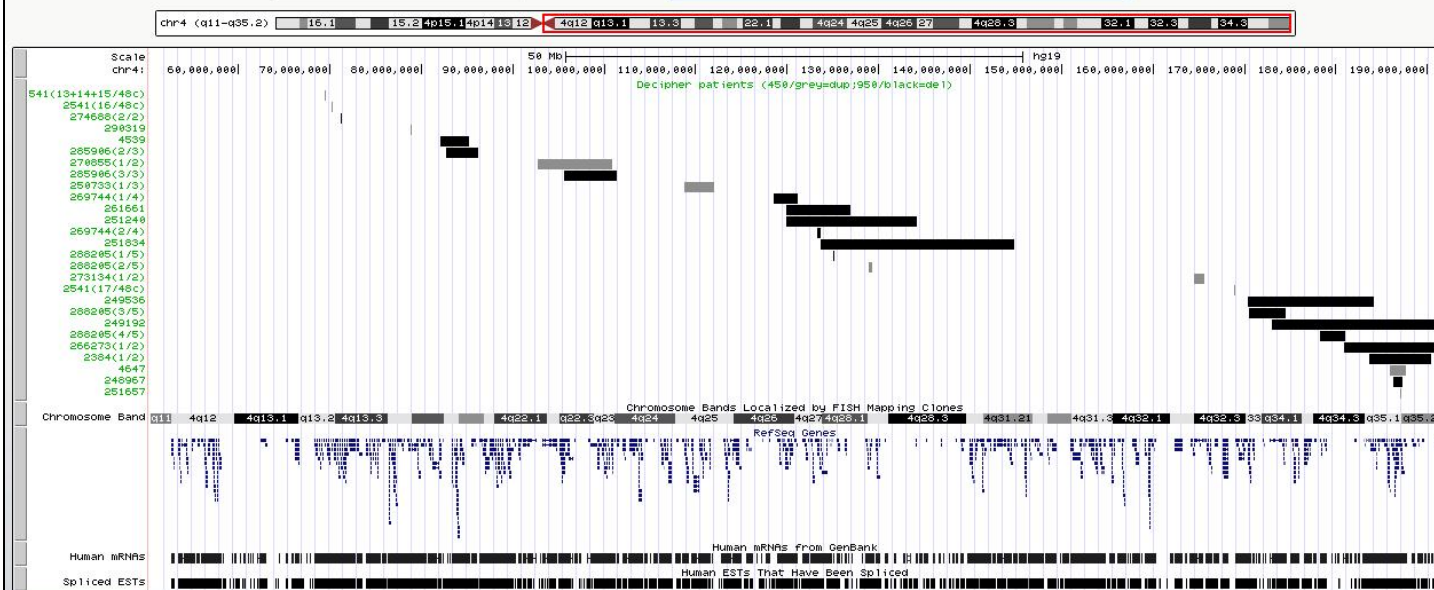
chr4:1-50,400,000 50,400,000 bp. enter position, gene symbol or search terms go



UCSC Genome Browser on Human Feb. 2009 (GRCh37/hg19) Assembly

move <<< << < > >> >>> zoom in 1.5x 3x 10x base zoom out 1.5x 3x 10x 100x

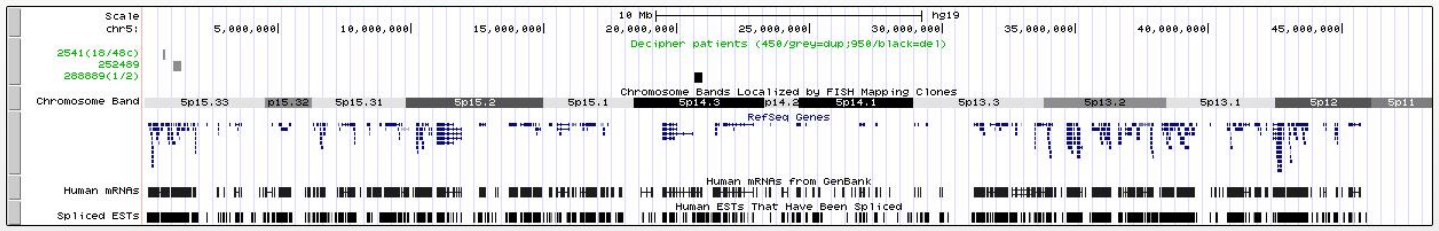
chr4:50,400,001-191,154,275 140,754,275 bp. enter position, gene symbol or search terms go



UCSC Genome Browser on Human Feb. 2009 (GRCh37/hg19) Assembly

move <<< << < > >> >>> zoom in 1.5x 3x 10x base zoom out 1.5x 3x 10x 100x

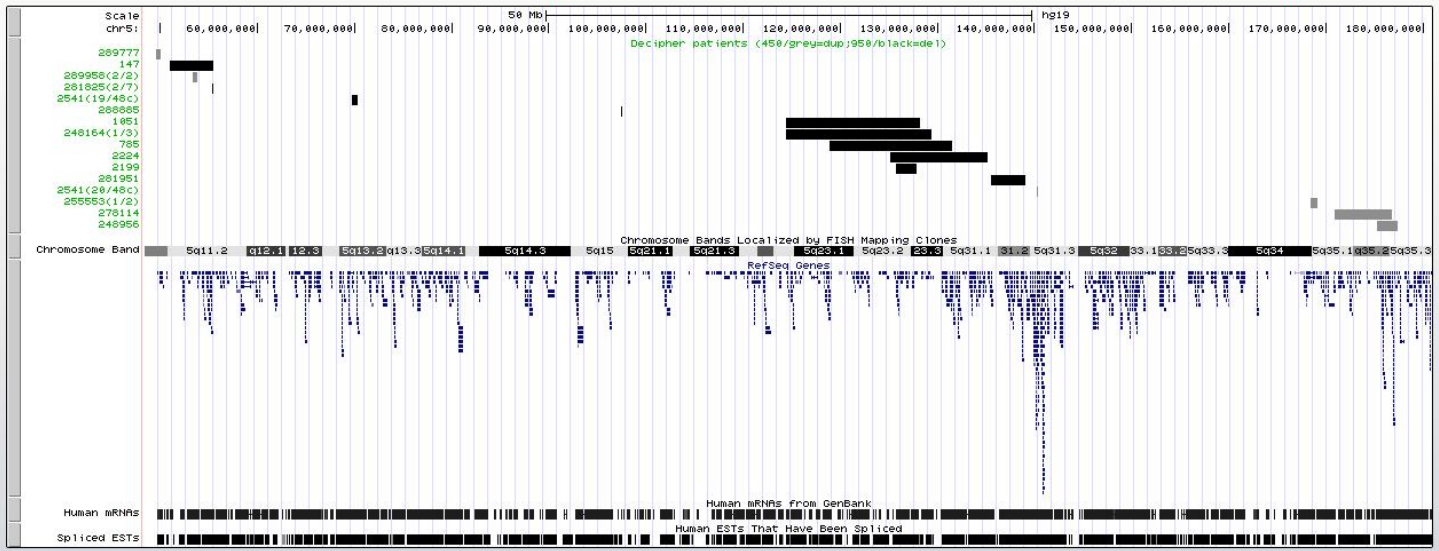
chr5:1-48,400,000 48,400,000 bp. enter position, gene symbol or search terms go



UCSC Genome Browser on Human Feb. 2009 (GRCh37/hg19) Assembly

move <<< << < > >> >>> zoom in 1.5x 3x 10x base zoom out 1.5x 3x 10x 100x

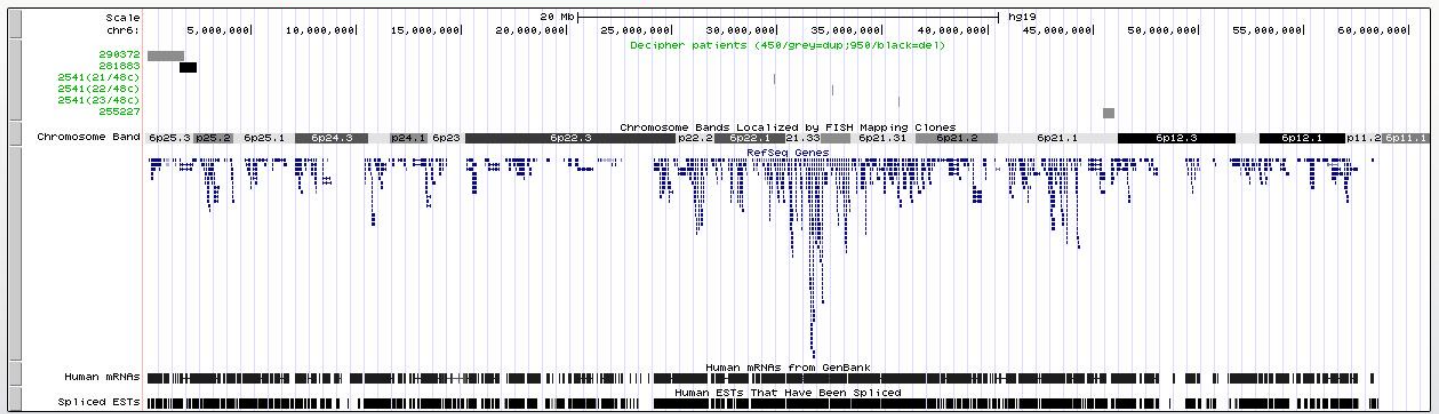
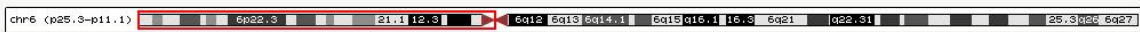
chr5:48,400,001-180,915,259 132,515,259 bp. enter position, gene symbol or search terms go



UCSC Genome Browser on Human Feb. 2009 (GRCh37/hg19) Assembly

move <<< << < > >> >>> zoom in 1.5x 3x 10x base zoom out 1.5x 3x 10x 100x

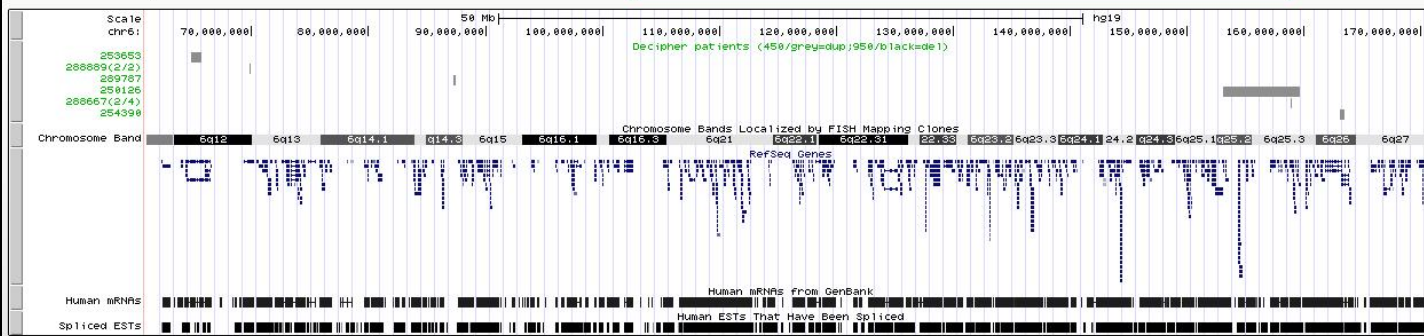
chr6:1-61,000,000 61,000,000 bp. enter position, gene symbol or search terms go



UCSC Genome Browser on Human Feb. 2009 (GRCh37/hg19) Assembly

move <<< << < > >> >>> zoom in 1.5x 3x 10x base zoom out 1.5x 3x 10x 100x

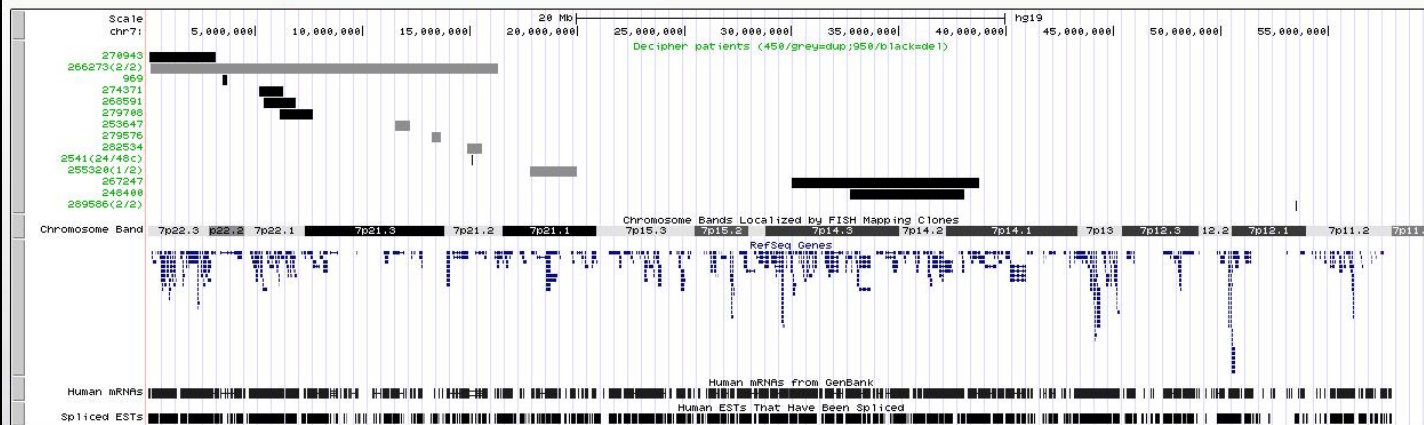
chr6:61,000,001-171,115,066 110,115,066 bp.



UCSC Genome Browser on Human Feb. 2009 (GRCh37/hg19) Assembly

move <<< << < > >> >>> zoom in 1.5x 3x 10x base zoom out 1.5x 3x 10x 100x

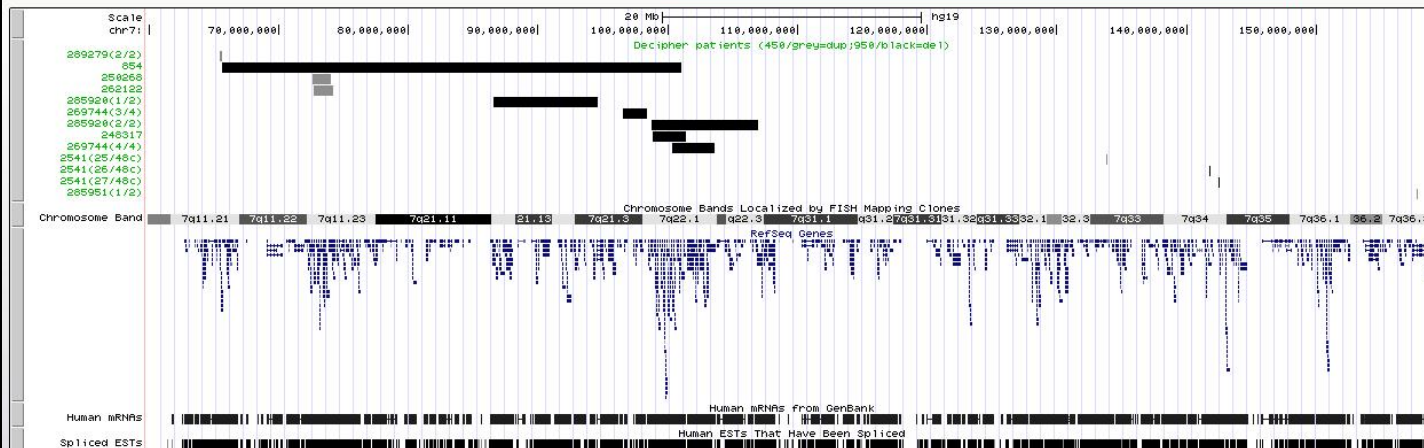
chr7:1-59,900,000 59,900,000 bp.



UCSC Genome Browser on Human Feb. 2009 (GRCh37/hg19) Assembly

move <<< << < > >> >>> zoom in 1.5x 3x 10x base zoom out 1.5x 3x 10x 100x

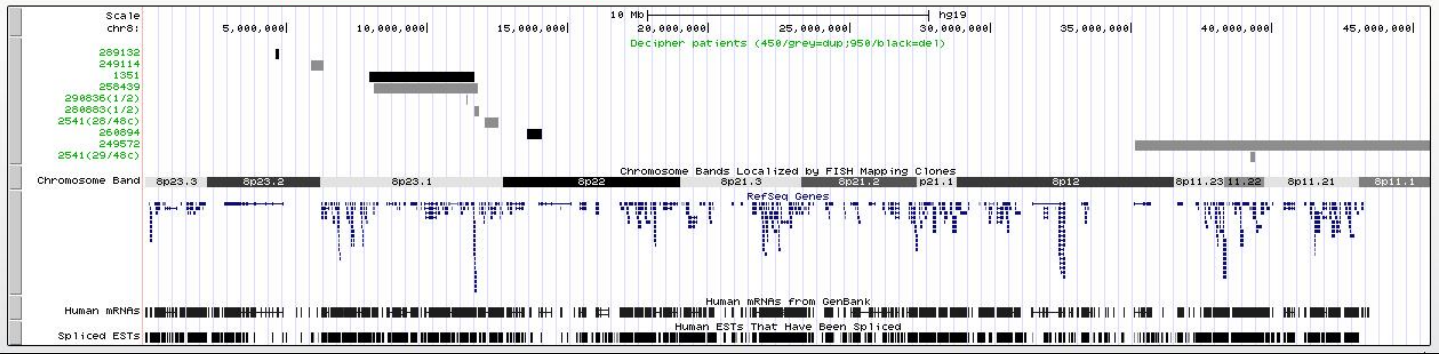
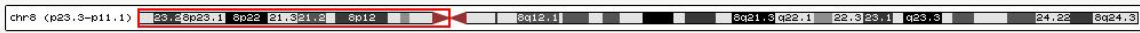
chr7:59,900,001-159,138,662 99,238,662 bp.



UCSC Genome Browser on Human Feb. 2009 (GRCh37/hg19) Assembly

move <<< << < > >> >>> zoom in 1.5x 3x 10x base zoom out 1.5x 3x 10x 100x

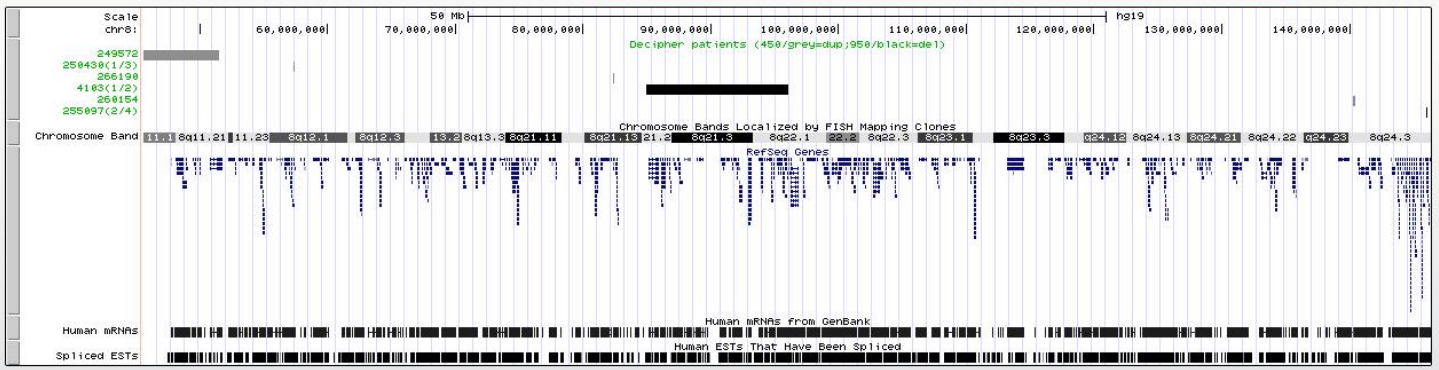
chr8:1-45,600,000 45,600,000 bp. go



UCSC Genome Browser on Human Feb. 2009 (GRCh37/hg19) Assembly

move <<< << < > >> >>> zoom in 1.5x 3x 10x base zoom out 1.5x 3x 10x 100x

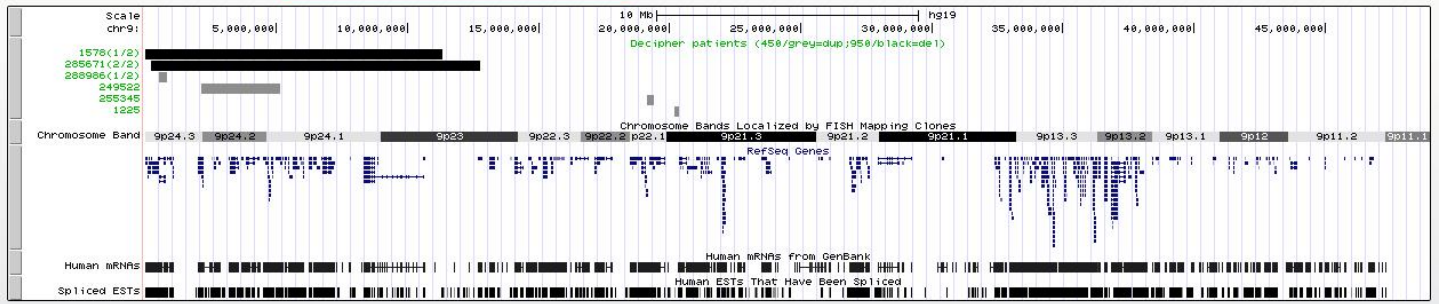
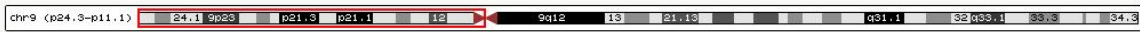
chr8:45,600,001-146,364,021 100,764,021 bp. go



UCSC Genome Browser on Human Feb. 2009 (GRCh37/hg19) Assembly

move <<< << < > >> >>> zoom in 1.5x 3x 10x base zoom out 1.5x 3x 10x 100x

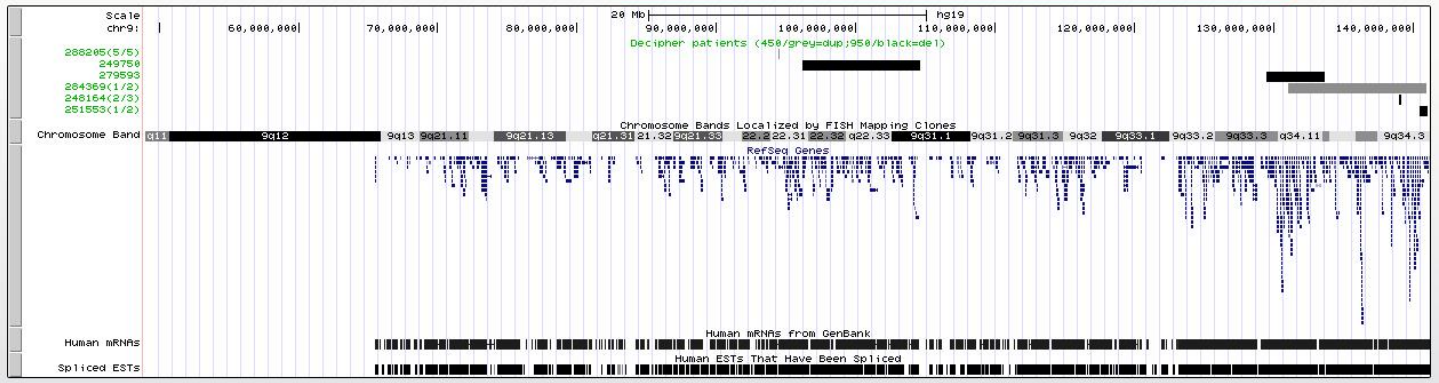
chr9:1-49,000,000 49,000,000 bp. go



UCSC Genome Browser on Human Feb. 2009 (GRCh37/hg19) Assembly

move <<< << < > >> >>> zoom in 1.5x 3x 10x base zoom out 1.5x 3x 10x 100x

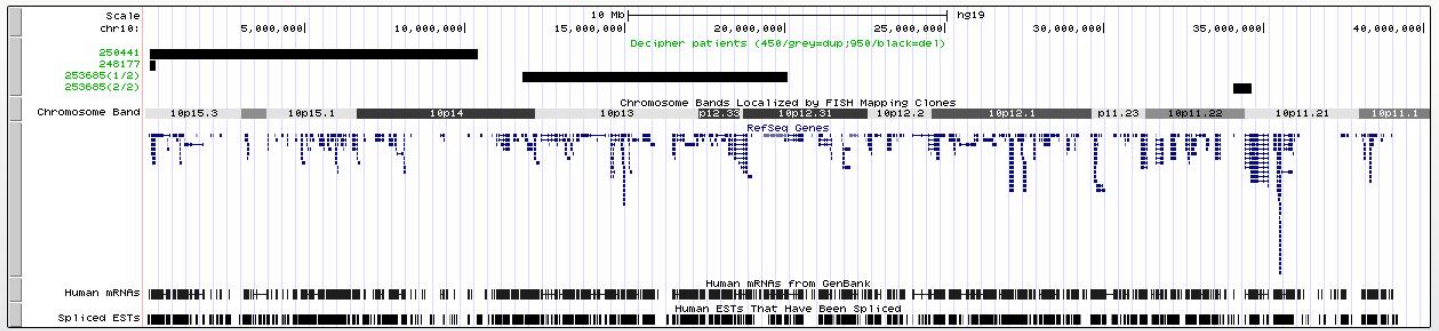
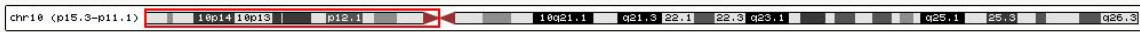
chr9:49,000,001-141,213,430 92,213,430 bp. enter position, gene symbol or search terms go



UCSC Genome Browser on Human Feb. 2009 (GRCh37/hg19) Assembly

move <<< << < > >> >>> zoom in 1.5x 3x 10x base zoom out 1.5x 3x 10x 100x

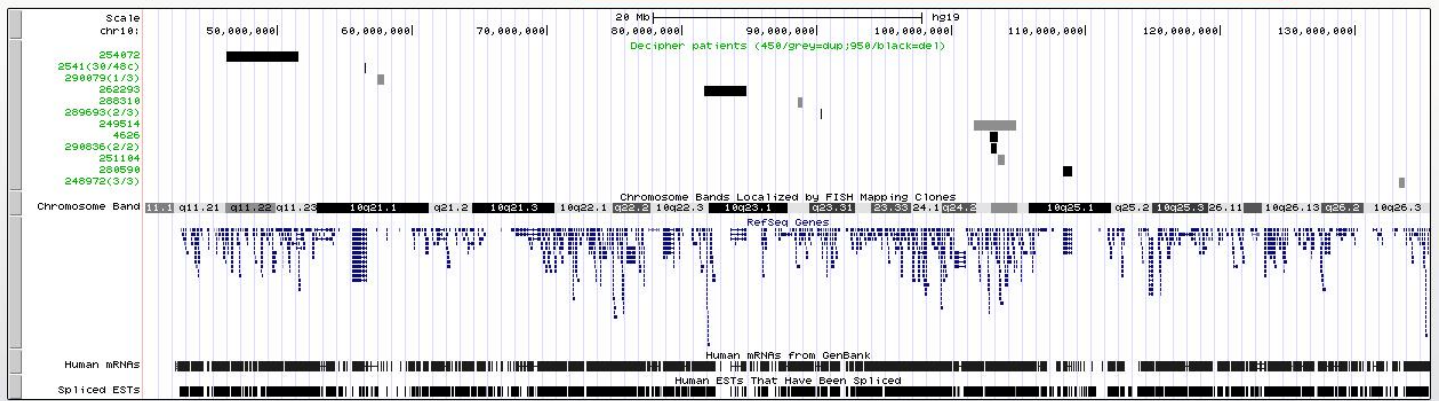
chr10:1:40,200,000 40,200,000 bp. enter position, gene symbol or search terms go



UCSC Genome Browser on Human Feb. 2009 (GRCh37/hg19) Assembly

move <<< << < > >> >>> zoom in 1.5x 3x 10x base zoom out 1.5x 3x 10x 100x

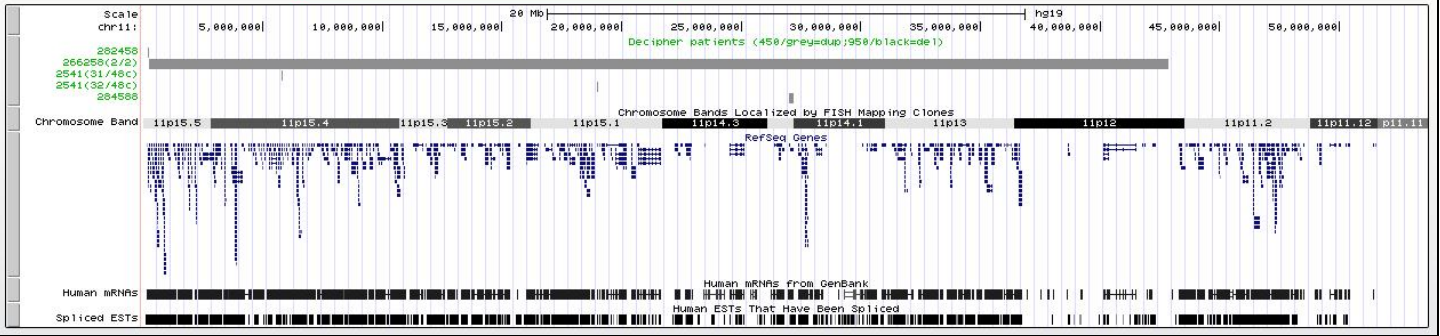
chr10:40,200,001-135,534,746 95,334,746 bp. enter position, gene symbol or search terms go



UCSC Genome Browser on Human Feb. 2009 (GRCh37/hg19) Assembly

move <<< << < > >> >>> zoom in 1.5x 3x 10x base zoom out 1.5x 3x 10x 100x

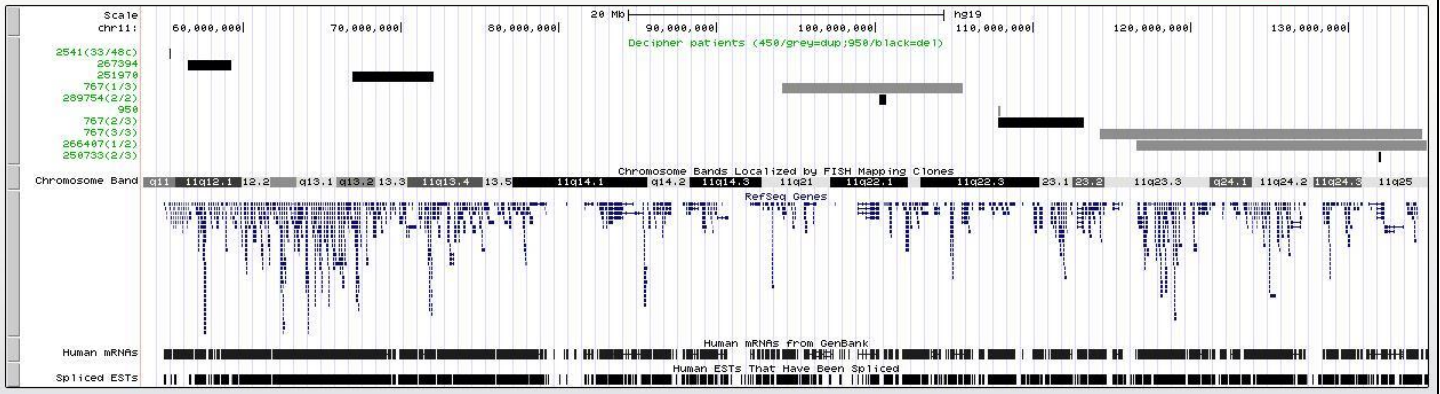
chr11:1-53,700,000 53,700,000 bp. go



UCSC Genome Browser on Human Feb. 2009 (GRCh37/hg19) Assembly

move <<< << < > >> >>> zoom in 1.5x 3x 10x base zoom out 1.5x 3x 10x 100x

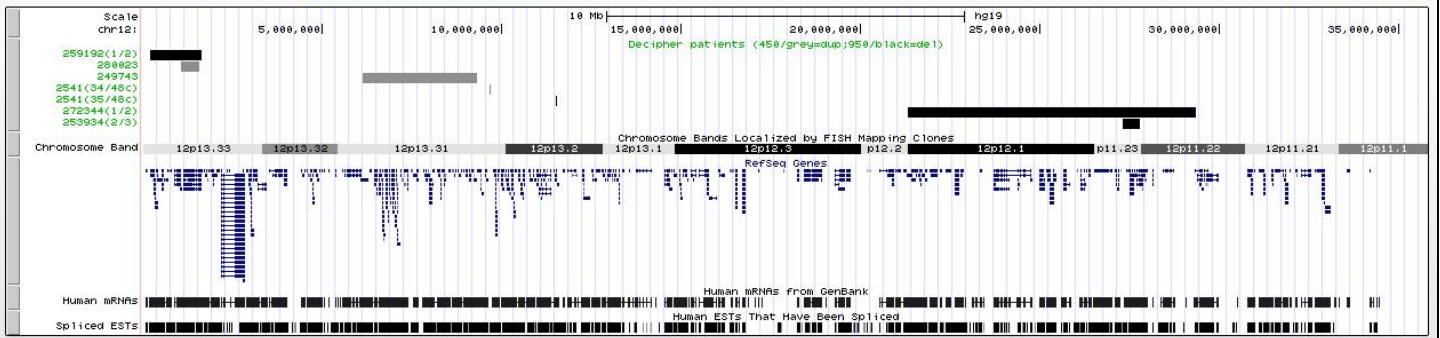
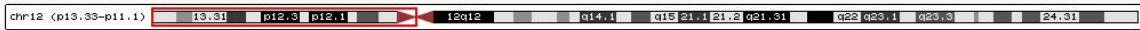
chr11:53,700,001-135,006,515 81,306,515 bp. go



UCSC Genome Browser on Human Feb. 2009 (GRCh37/hg19) Assembly

move <<< << < > >> >>> zoom in 1.5x 3x 10x base zoom out 1.5x 3x 10x 100x

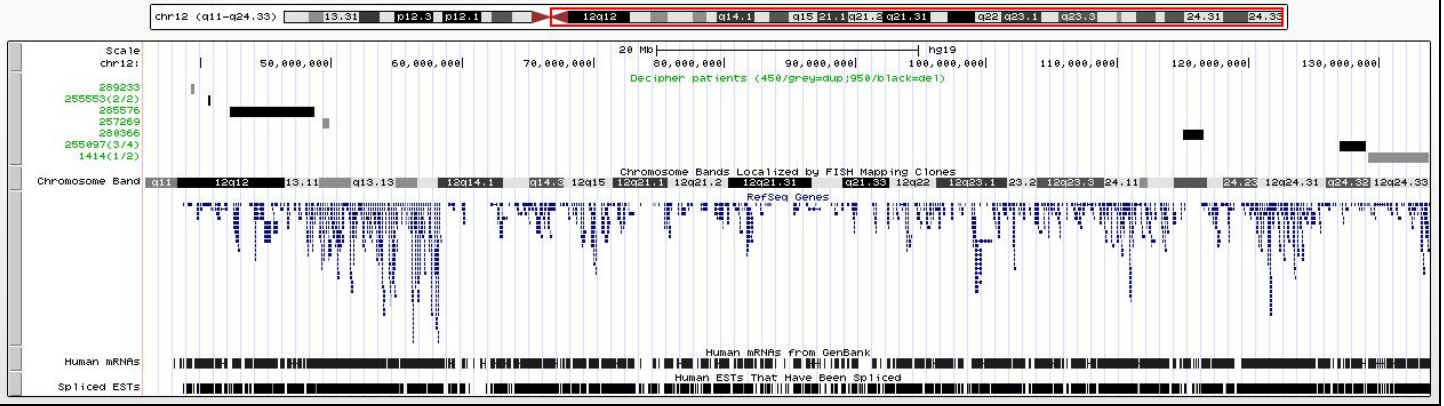
chr12:1-35,800,000 35,800,000 bp. go



UCSC Genome Browser on Human Feb. 2009 (GRCh37/hg19) Assembly

move <<< << < > >> >>> zoom in 1.5x 3x 10x base zoom out 1.5x 3x 10x 100x

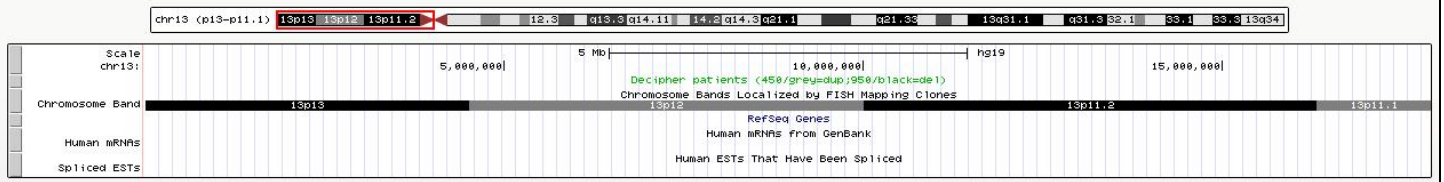
chr12:35,800,001-133,851,894 98,051,894 bp.



UCSC Genome Browser on Human Feb. 2009 (GRCh37/hg19) Assembly

move <<< << < > >> >>> zoom in 1.5x 3x 10x base zoom out 1.5x 3x 10x 100x

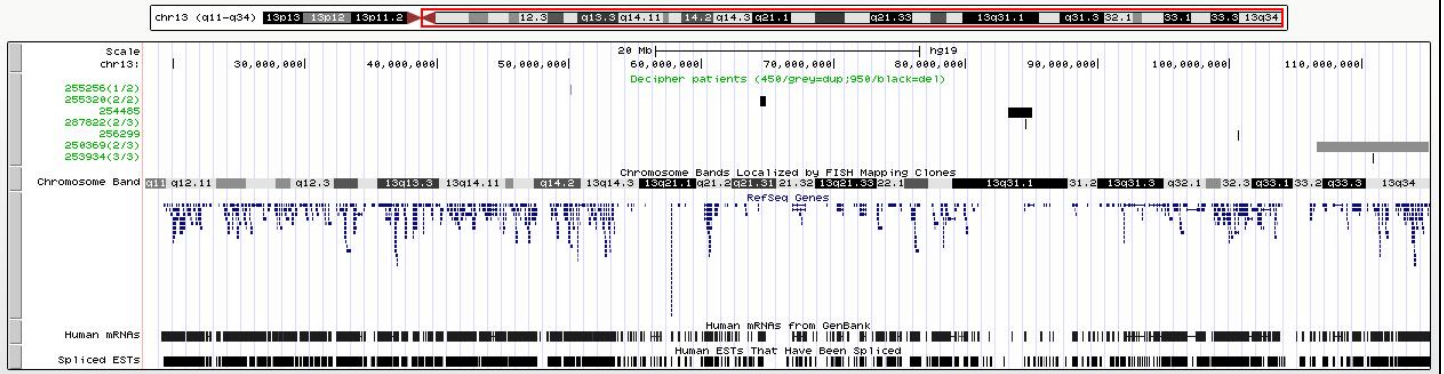
chr13:1-17,900,000 17,900,000 bp.



UCSC Genome Browser on Human Feb. 2009 (GRCh37/hg19) Assembly

move <<< << < > >> >>> zoom in 1.5x 3x 10x base zoom out 1.5x 3x 10x 100x

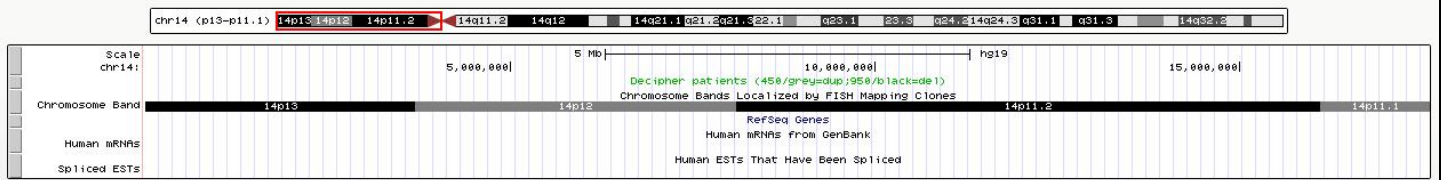
chr13:17,900,001-115,169,877 97,269,877 bp.



UCSC Genome Browser on Human Feb. 2009 (GRCh37/hg19) Assembly

move <<< << < > >> >>> zoom in 1.5x 3x 10x base zoom out 1.5x 3x 10x 100x

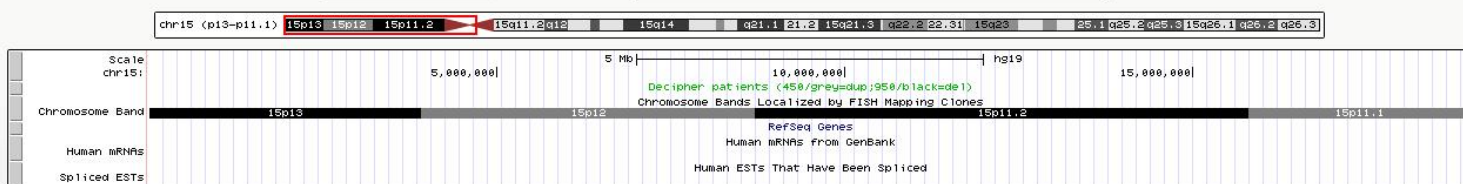
chr14:1-17,600,000 17,600,000 bp.



UCSC Genome Browser on Human Feb. 2009 (GRCh37/hg19) Assembly

move <<< << < > >> >>> zoom in 1.5x 3x 10x base zoom out 1.5x 3x 10x 100x

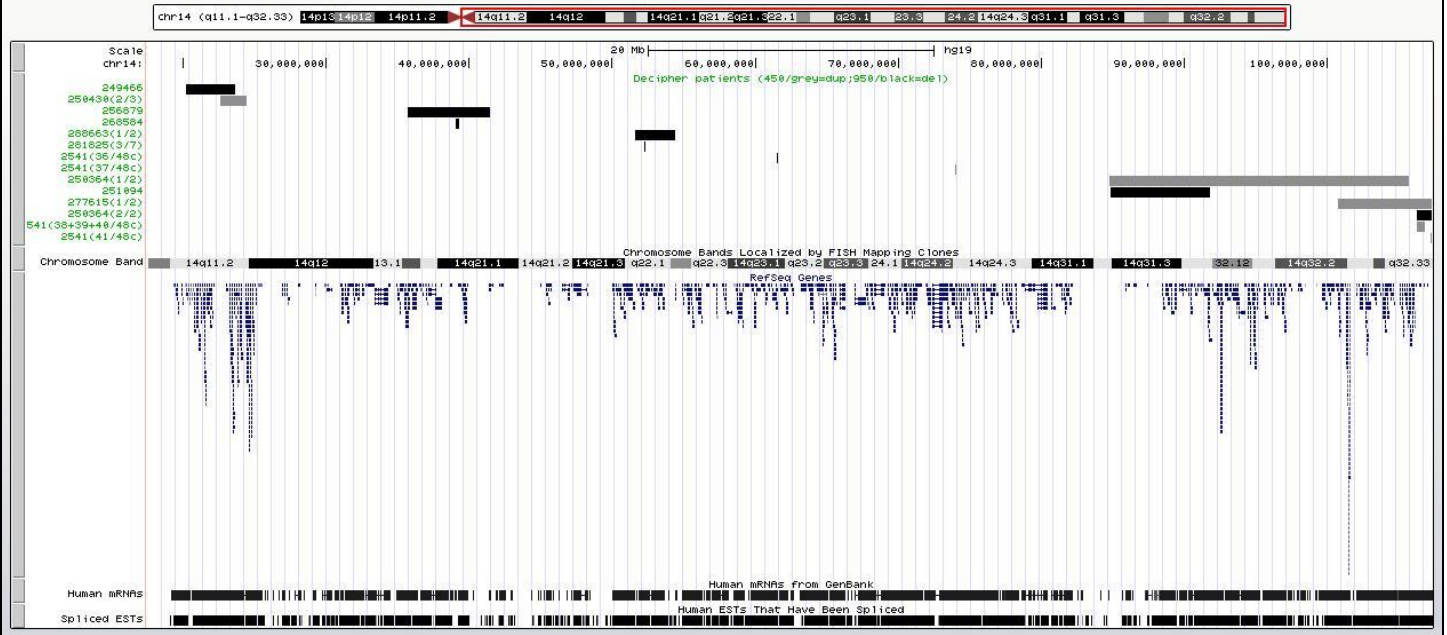
chr15:1-19,000,000 19,000,000 bp.



UCSC Genome Browser on Human Feb. 2009 (GRCh37/hg19) Assembly

move <<< << < > >> >>> zoom in 1.5x 3x 10x base zoom out 1.5x 3x 10x 100x

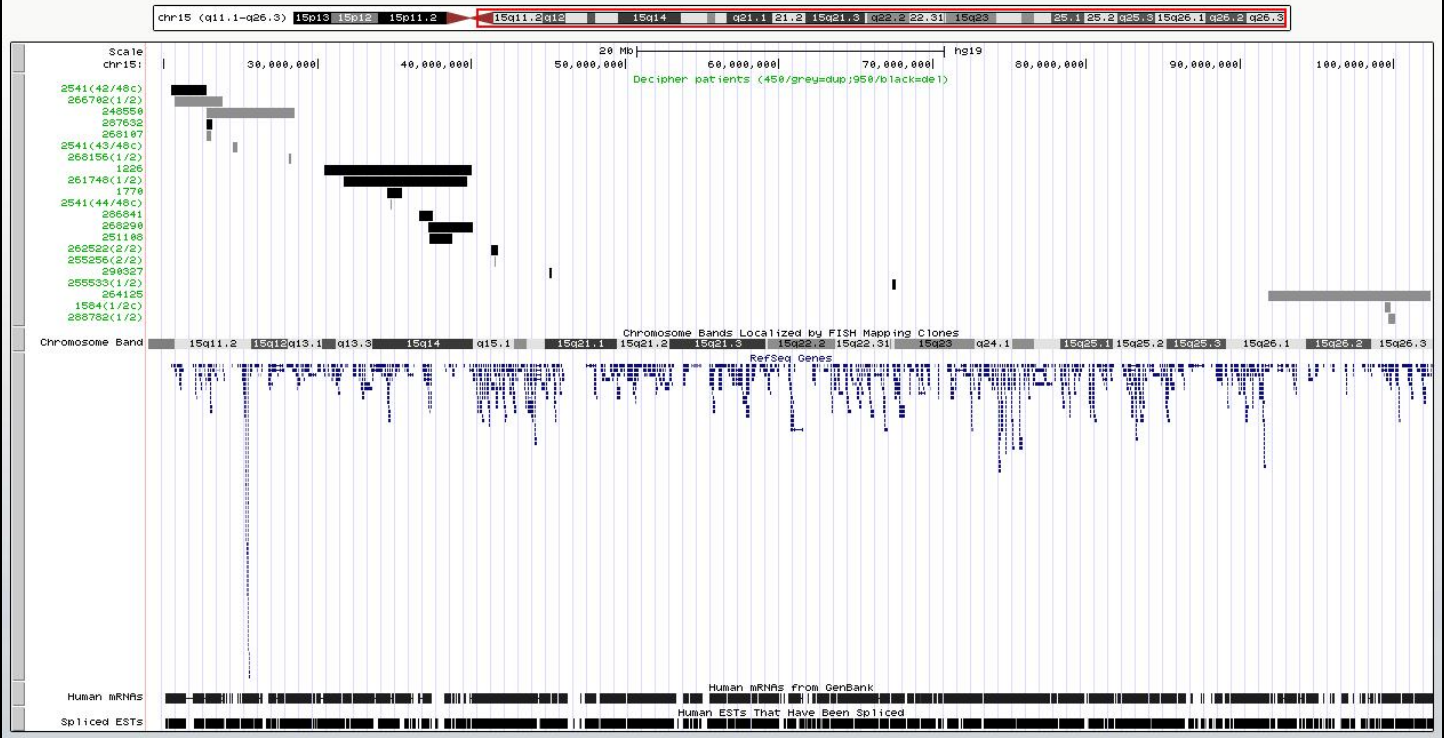
chr14:17,600,001-107,349,539 89,749,539 bp.



UCSC Genome Browser on Human Feb. 2009 (GRCh37/hg19) Assembly

move <<< << < > >> >>> zoom in 1.5x 3x 10x base zoom out 1.5x 3x 10x 100x

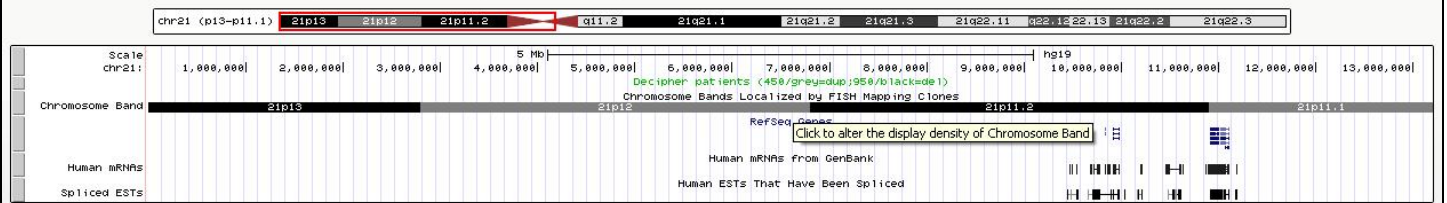
chr15:19,000,001-102,531,391 83,531,391 bp.



UCSC Genome Browser on Human Feb. 2009 (GRCh37/hg19) Assembly

move <<< << < > >> >>> zoom in 1.5x 3x 10x base zoom out 1.5x 3x 10x 100x

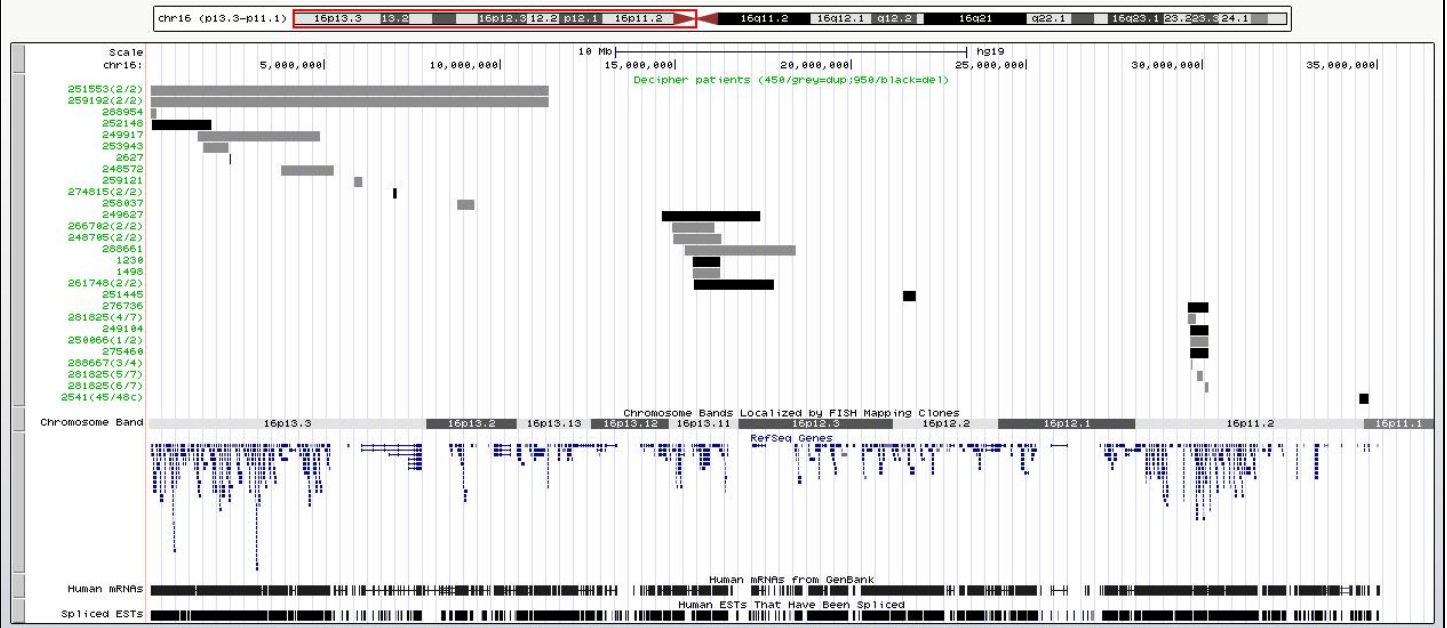
chr21:1-13,200,000 13,200,000 bp.



UCSC Genome Browser on Human Feb. 2009 (GRCh37/hg19) Assembly

move <<< << < > >> >>> zoom in 1.5x 3x 10x base zoom out 1.5x 3x 10x 100x

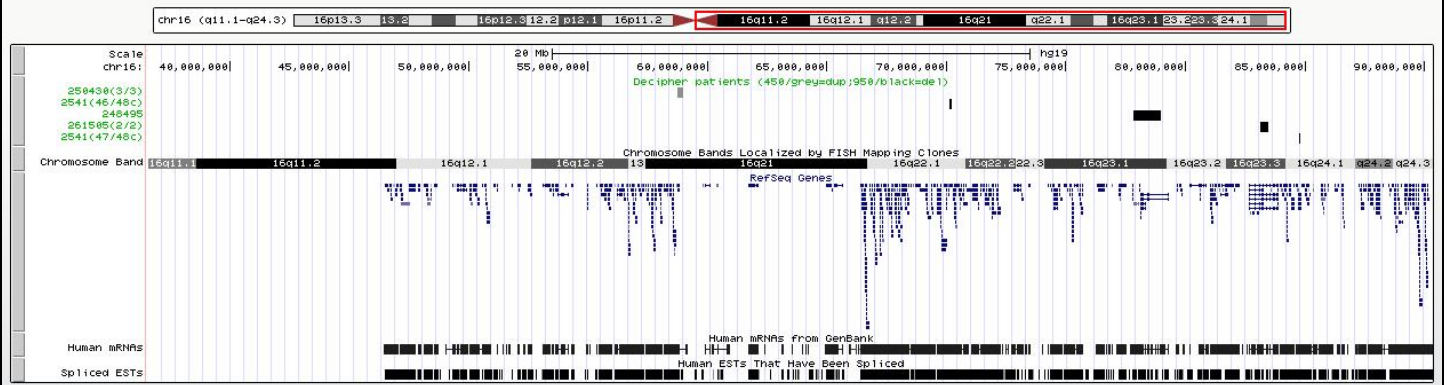
chr16:1-36,600,000 36,600,000 bp. enter position, gene symbol or search terms go



UCSC Genome Browser on Human Feb. 2009 (GRCh37/hg19) Assembly

move <<< << < > >> >>> zoom in 1.5x 3x 10x base zoom out 1.5x 3x 10x 100x

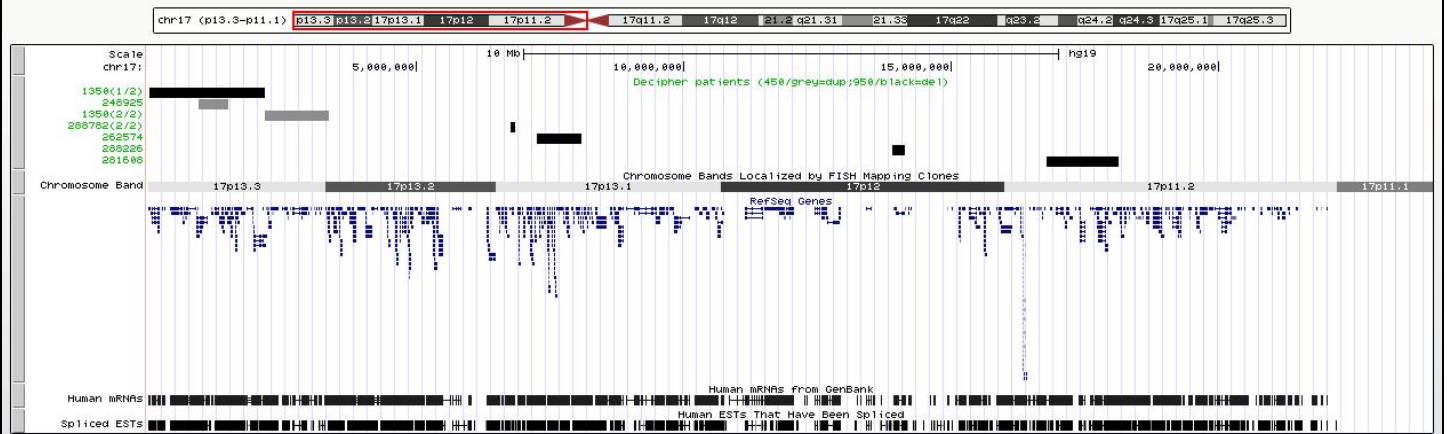
chr16:36,600,001-90,354,752 53,754,752 bp. enter position, gene symbol or search terms go



UCSC Genome Browser on Human Feb. 2009 (GRCh37/hg19) Assembly

move <<< << < > >> >>> zoom in 1.5x 3x 10x base zoom out 1.5x 3x 10x 100x

chr17:1-24,000,000 24,000,000 bp. enter position, gene symbol or search terms go

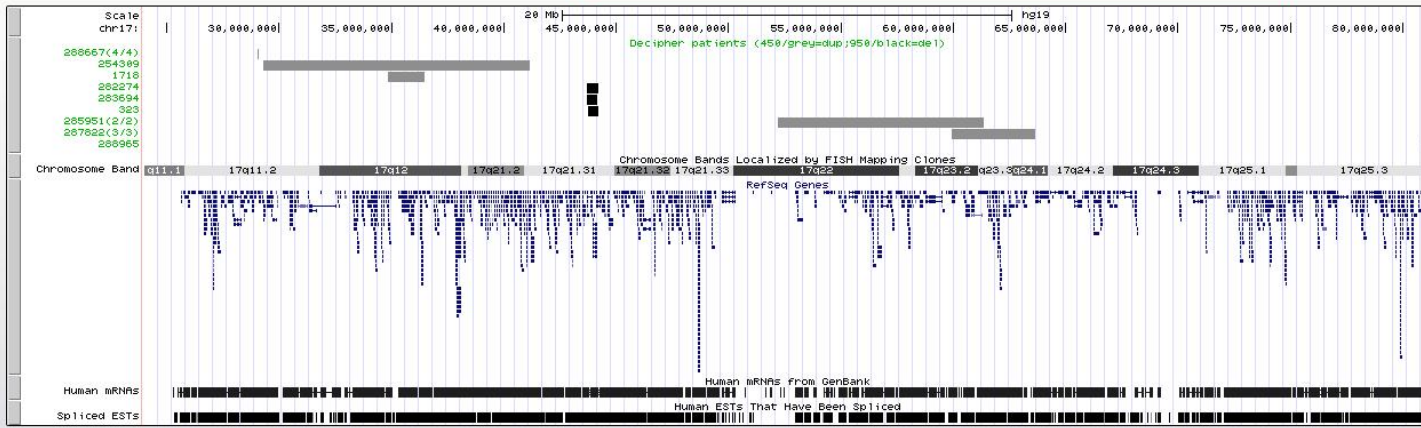


UCSC Genome Browser on Human Feb. 2009 (GRCh37/hg19) Assembly

move <<< << < > >> >>> zoom in 1.5x 3x 10x base zoom out 1.5x 3x 10x 100x

chr17:24,000,001-81,195,209 57,195,209 bp. enter position, gene symbol or search terms go

chr17 (q11.1-q25.3) p13.3 p13.2 17p13.1 17p12 17p11.2 17q11.2 17q12 21.2 q21.31 21.33 17q22 q23.2 q24.2 q24.3 17q25.1 17q25.3

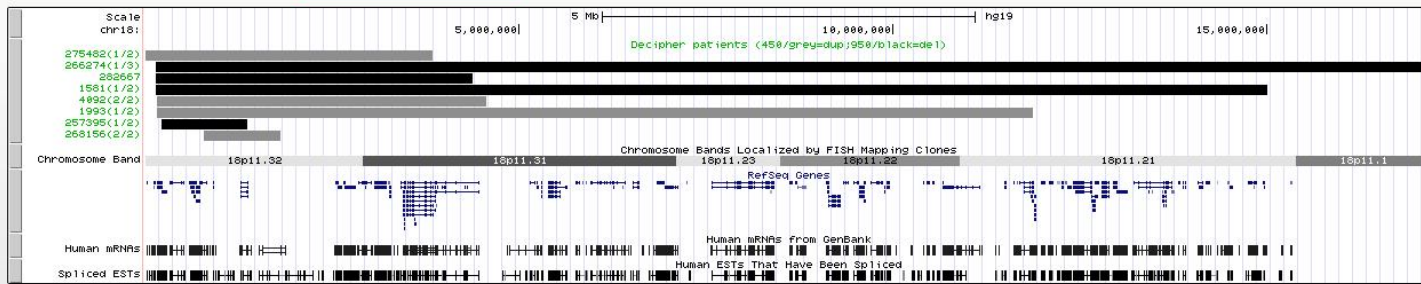


UCSC Genome Browser on Human Feb. 2009 (GRCh37/hg19) Assembly

move <<< << < > >> >>> zoom in 1.5x 3x 10x base zoom out 1.5x 3x 10x 100x

chr18:1-17,200,000 17,200,000 bp. enter position, gene symbol or search terms go

chr18 (p11.32-p11.1) 11.32 p11.31 18p11.21 18q11.2 18q12.1 18q12.2 18q12.3 18q21.1 18q21.2 21.32 18q22.1 18q22.3 18q23

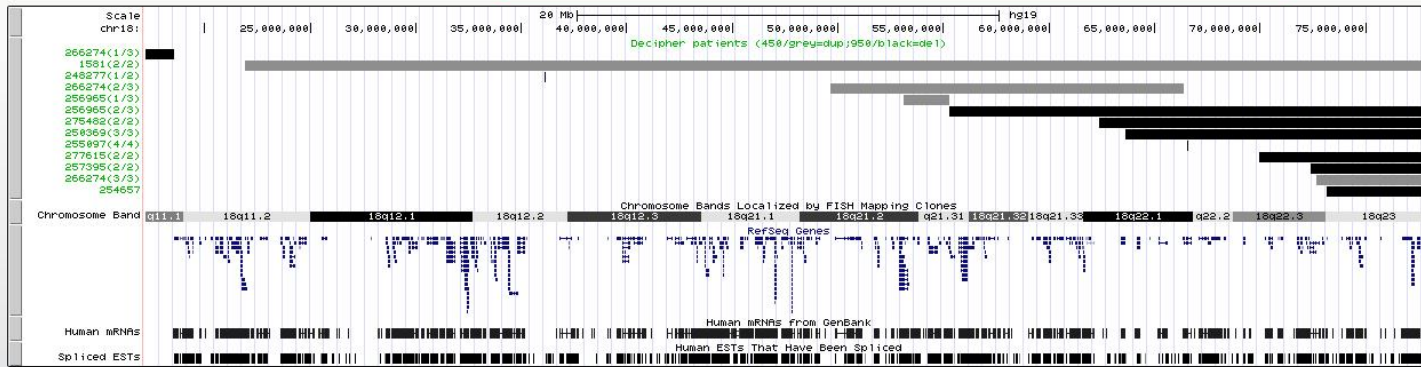


UCSC Genome Browser on Human Feb. 2009 (GRCh37/hg19) Assembly

move <<< << < > >> >>> zoom in 1.5x 3x 10x base zoom out 1.5x 3x 10x 100x

chr18:17,200,001-78,077,247 60,877,247 bp. enter position, gene symbol or search terms go

chr18 (q11.1-q23) 11.32 p11.31 18p11.21 18q11.2 18q12.1 18q12.2 18q12.3 18q21.1 18q21.2 21.32 18q22.1 18q22.3 18q23

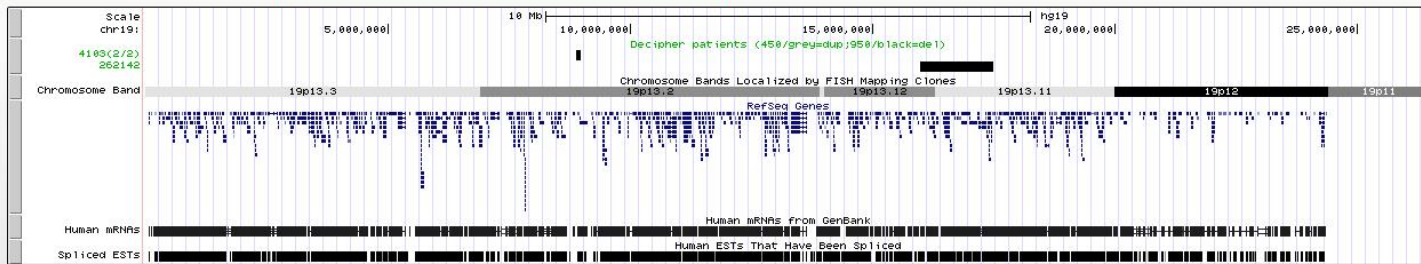


UCSC Genome Browser on Human Feb. 2009 (GRCh37/hg19) Assembly

move <<< << < > >> >>> zoom in 1.5x 3x 10x base zoom out 1.5x 3x 10x 100x

chr19:1-26,500,000 26,500,000 bp. enter position, gene symbol or search terms go

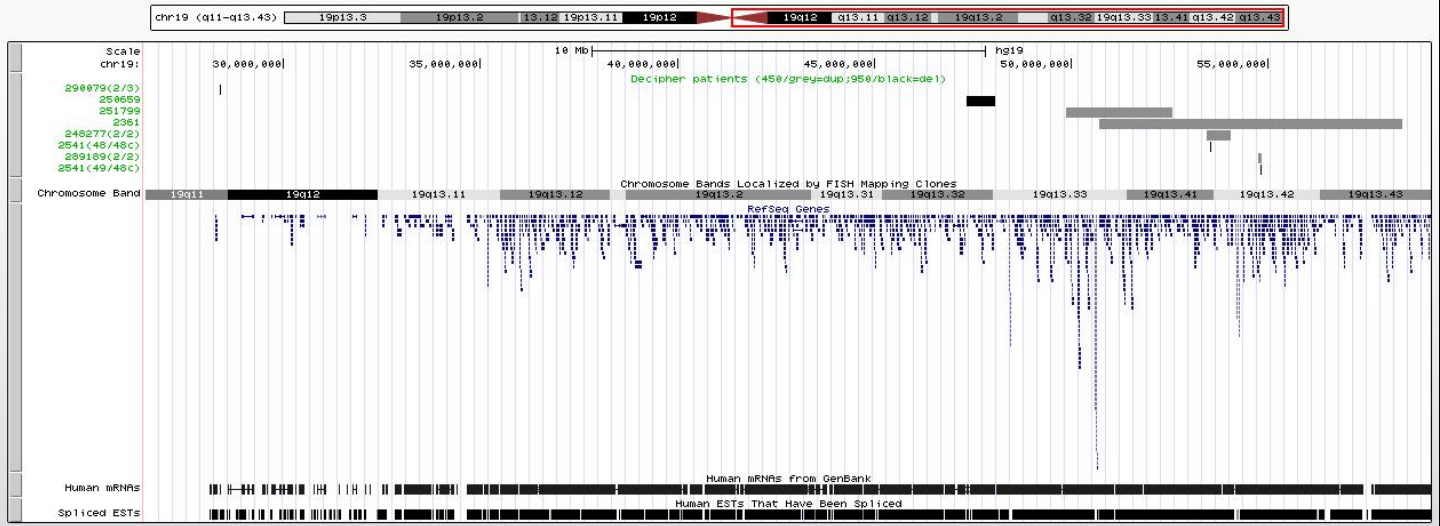
chr19 (p13.3-p11) 19p13.3 19p13.2 13.12 19p13.11 19p12 19q12 q13.11 q13.12 19q13.2 q13.32 19q13.33 13.41 q13.42 q13.43



UCSC Genome Browser on Human Feb. 2009 (GRCh37/hg19) Assembly

move <<< << < > >> >>> zoom in 1.5x 3x 10x base zoom out 1.5x 3x 10x 100x

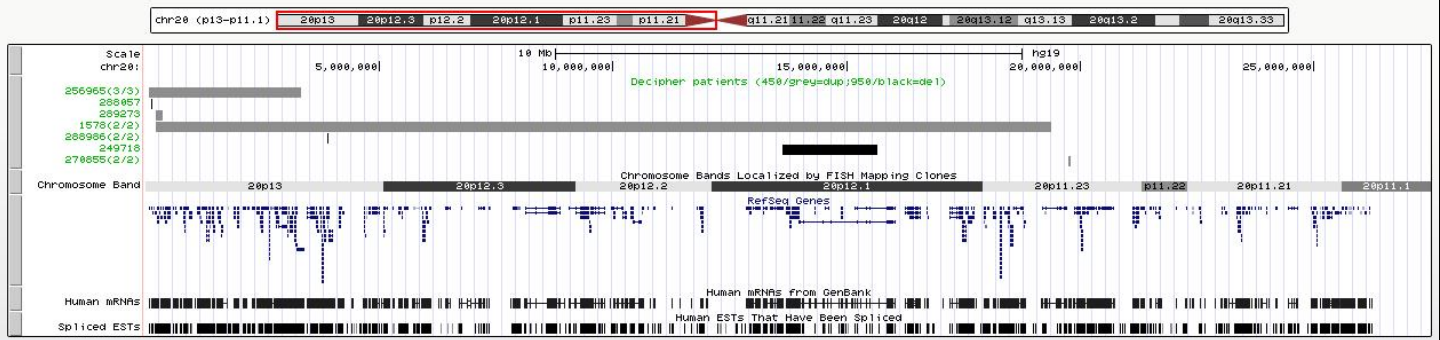
chr19:26,500,001-59,128,982 32,628,982 bp. enter position, gene symbol or search terms go



UCSC Genome Browser on Human Feb. 2009 (GRCh37/hg19) Assembly

move <<< << < > >> >>> zoom in 1.5x 3x 10x base zoom out 1.5x 3x 10x 100x

chr20:1-27,500,000 27,500,000 bp. enter position, gene symbol or search terms go



UCSC Genome Browser on Human Feb. 2009 (GRCh37/hg19) Assembly

move <<< << < > >> >>> zoom in 1.5x 3x 10x base zoom out 1.5x 3x 10x 100x

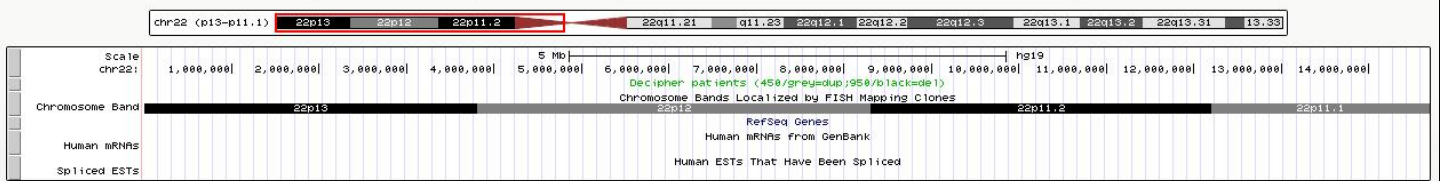
chr20:27,500,001-63,025,519 35,525,519 bp. enter position, gene symbol or search terms go



UCSC Genome Browser on Human Feb. 2009 (GRCh37/hg19) Assembly

move <<< << < > >> >>> zoom in 1.5x 3x 10x base zoom out 1.5x 3x 10x 100x

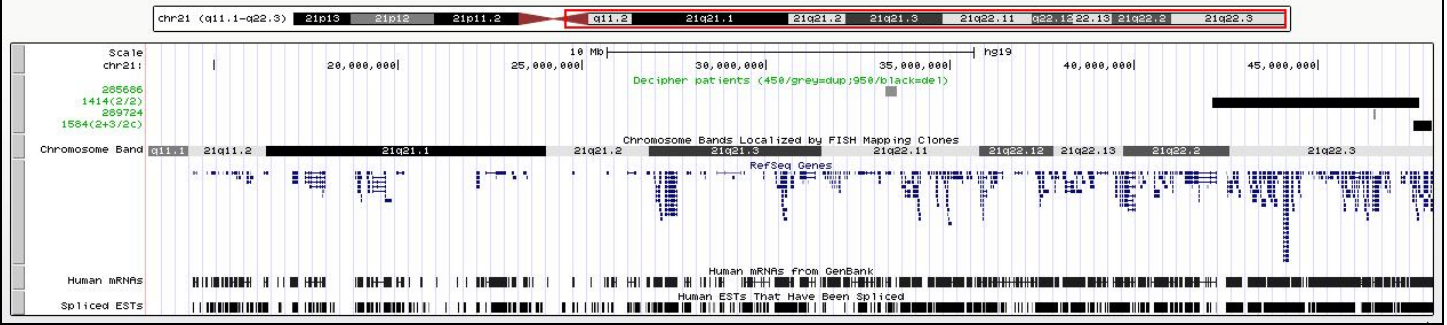
chr22:1-14,700,000 14,700,000 bp. enter position, gene symbol or search terms go



UCSC Genome Browser on Human Feb. 2009 (GRCh37/hg19) Assembly

move <<< << < > >> >>> zoom in 1.5x 3x 10x base zoom out 1.5x 3x 10x 100x

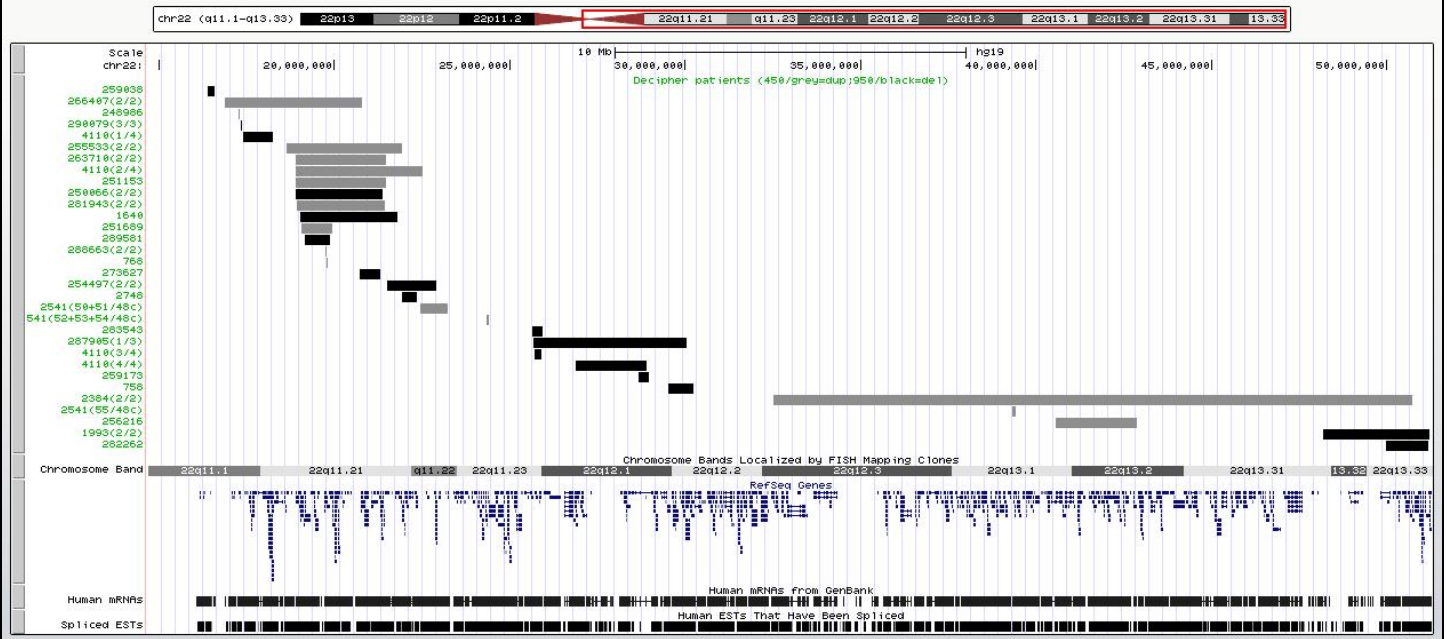
chr21:13,200,001-48,129,894 34,929,894 bp.



UCSC Genome Browser on Human Feb. 2009 (GRCh37/hg19) Assembly

move <<< << < > >> >>> zoom in 1.5x 3x 10x base zoom out 1.5x 3x 10x 100x

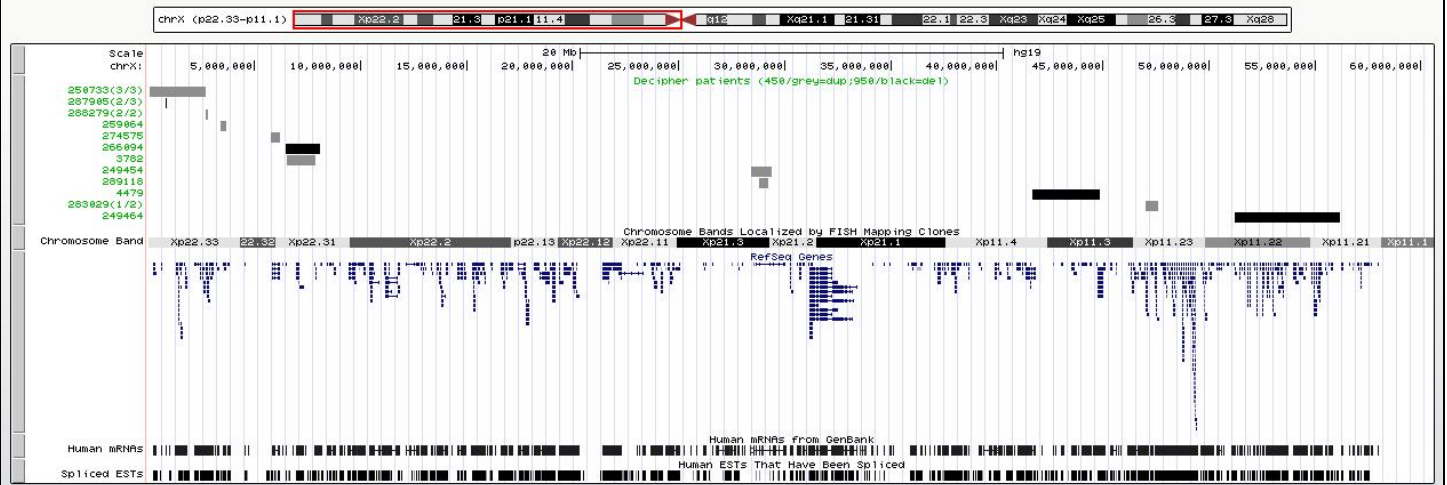
chr22:14,700,001-51,304,565 36,604,565 bp.



UCSC Genome Browser on Human Feb. 2009 (GRCh37/hg19) Assembly

move <<< << < > >> >>> zoom in 1.5x 3x 10x base zoom out 1.5x 3x 10x 100x

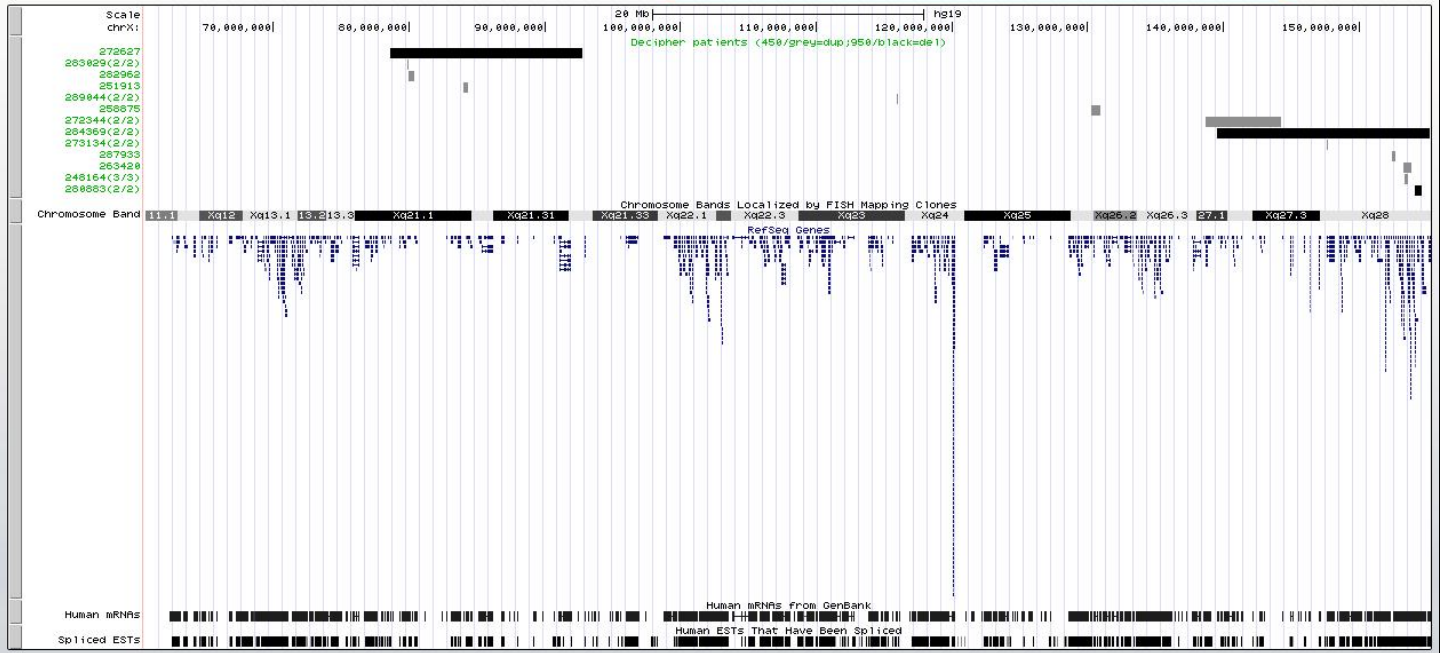
chrX:1-60,600,000 60,600,000 bp.



UCSC Genome Browser on Human Feb. 2009 (GRCh37/hg19) Assembly

move <<< << < > >> >>> zoom in 1.5x 3x 10x base zoom out 1.5x 3x 10x 100x

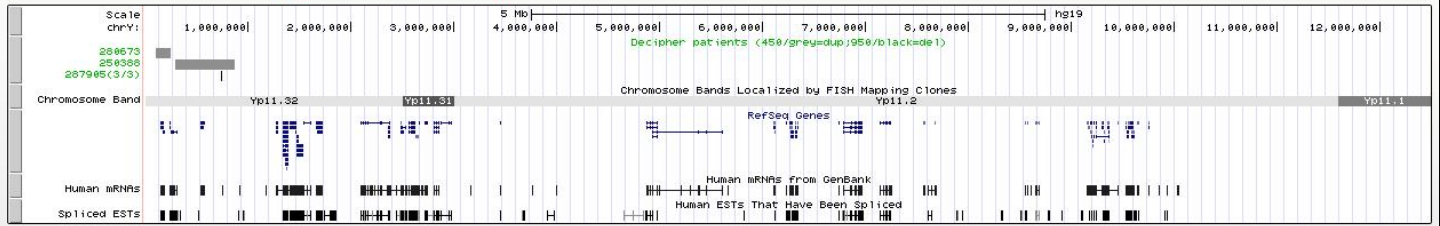
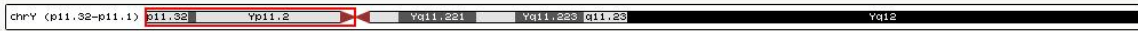
chrX:60,600,001-155,270,559 94,670,559 bp. chrX:60,600,001-155,270,559 go



UCSC Genome Browser on Human Feb. 2009 (GRCh37/hg19) Assembly

move <<< << < > >> >>> zoom in 1.5x 3x 10x base zoom out 1.5x 3x 10x 100x

chrY:1-12,500,000 12,500,000 bp. enter position, gene symbol or search terms go



UCSC Genome Browser on Human Feb. 2009 (GRCh37/hg19) Assembly

move <<< << < > >> >>> zoom in 1.5x 3x 10x base zoom out 1.5x 3x 10x 100x

chrY:12,500,001-59,373,565 46,873,565 bp. enter position, gene symbol or search terms go

