

Sequences of primers used.

For the CUX1-CLDN7 fusion PCR:

CUX1 fusion F: 5' GAAGCGCTTTGATTTACAGCAG 3'
CUX1 fusion R: 5' ATACCAGGAGCAAGCTACCAAG 3'
non-disrupted CUX1 F: 5' GAAGCGCTTTGATTTACAGCAG 3'
non-disrupted CUX1 R: 5' GCATCAATCTCTCCTTGAAAC 3'
non-disrupted CLDN7 F: 5' TATACGGCCTTCTTCACTTTG 3'
non-disrupted CLDN7 R: 5' CTATGCGGGTGACAACATCATC 3'

For human CUX1 qPCR:

CUX1 F: 5' ACAGACACTGAAGAACCAAGCCGA 3'
CUX1 R: 5' TGTGAGGCCAGCTGGAGGGA 3'
GAPDH F: 5' TGCCTCCTGCACCACCAACT 3'
GAPDH R: 5' CGCCTGCTTACCACCTTC 3'

For *Drosophila* hemocyte qPCR:

cut F: 5' ACATGCGGCTGCCTTGGGAC 3'
cut R: 5' CCGATCCTCGGACATGGAATCATC 3'
cut DLP: 5' 6-FAM AGCGTTTCAGTTTGCCGCCGCCCAA 3'
rpL32 F: 5' AAGCGGCGACGCACTCTGTT 3'
rpL32 R: 5' GCCCAGCATACAGGCCCAAG 3'
rpL32 DLP: 5' JOE - AAGCTGTGCGACAAATGGCGCAAGCCCAA 3'

Sample	7q22	Aligned bases	Aligned reads
A19	diploid	1,389,152,225	24,397,792
A20	diploid	1,502,840,106	25,306,922
A21	diploid	4,892,225,900	59,784,386
A35	diploid	2,785,381,733	39,401,504
A44	diploid	2,295,307,663	30,273,264
A53	diploid	2,642,078,275	35,254,290
A72	diploid	5,844,434,544	68,046,387
T01	diploid	958,468,068	26,624,113
T05	diploid	1,005,901,090	16,414,305
T55	diploid	4,127,081,110	52,797,375
T67	diploid	3,452,185,721	55,948,201
T68	diploid	2,157,161,689	33,404,647
A36	haploid	2,415,150,529	32,995,534
A56	haploid	2,286,932,090	34,387,812
A65	haploid	6,975,702,255	82,573,524
T03	haploid	3,611,483,214	50,617,496
T04	haploid	4,152,283,623	51,891,346
T08	haploid	1,420,993,554	31,357,523
T12	haploid	1,527,411,829	30,436,791
T16	haploid	1,381,409,420	31,107,825
T19	haploid	1,358,711,931	32,396,763
T20	haploid	2,483,904,799	45,749,242
T52	haploid	2,268,782,392	24,373,804

		Aligned bases	Aligned reads
All samples	mean	2,736,303,642	39,806,124
	minimum	958,468,068	16,414,305
	maximum	6,975,702,255	82,573,524
	standard deviation	1,581,762,409	16,065,543
Haploid 7q22 sample	mean	2,716,615,058	40,717,060
	minimum	1,358,711,931	24,373,804
	maximum	6,975,702,255	82,573,524
	standard deviation	1,680,817,892	16,497,887
Diploid 7q22 samples	mean	2,542,478,317	35,973,322
	minimum	958,468,068	16,414,305
	maximum	5,844,434,544	68,046,387
	standard deviation	1,560,411,670	16,345,527