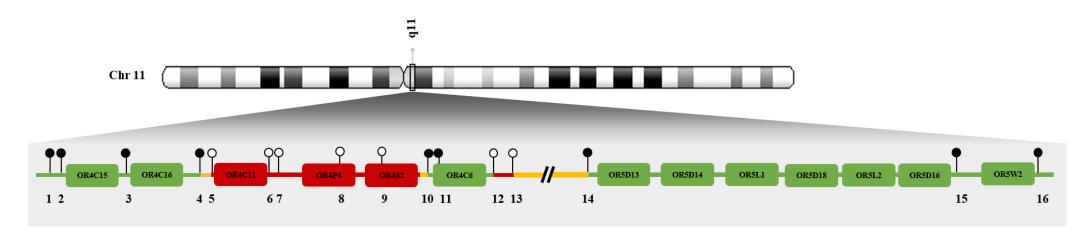
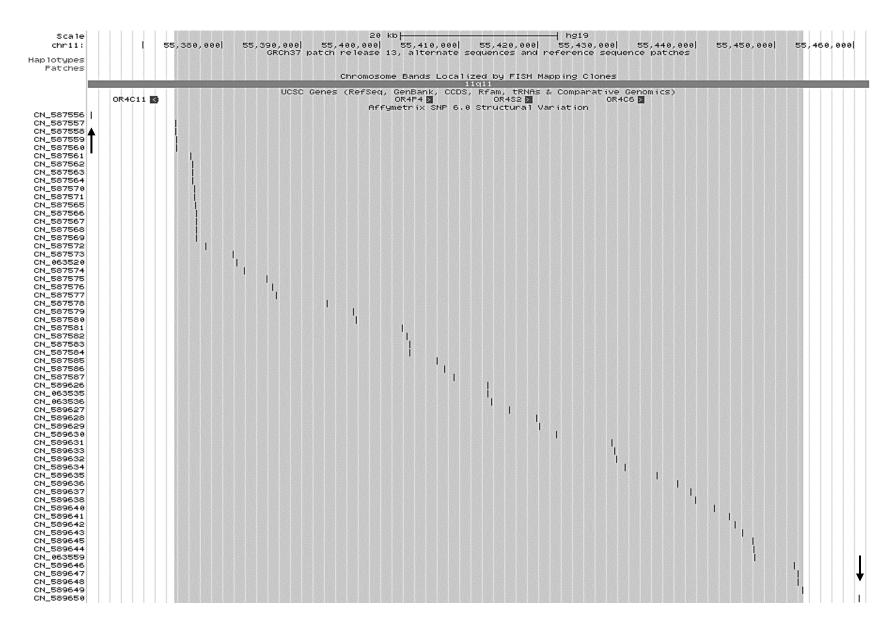
Supplementary material



Supplementary Figure 1. Positioning of the different primer pairs used for copy number variation screening.

The position of each MAQ primer pair in the region of interest is schematically represented with \(\bar{1} \). Each pair is specified with its corresponding number (1-16). Primer pairs were designed with the MAQ primer design tool, which is accessible via https://suremastrtools.agilent.com/maq-design/. The target region was set at chr11:55,300,000-55,700,000 (genome build GRCh37/hg19) and includes a total of 13 olfactory receptor genes.

Screening of the 11q11 region resulted in copy number loss detection (white/black colored probes represent absence/presence of the MAQ primer pair); red coloring represents the minimal deleted region, yellow coloring signifies the maximal deleted region, and green coloring indicates genes that are not part of the deletion.



Supplementary Figure 2. Visual representation of probe coverage in the 11q11 region by the Affymetrix Genome-Wide Human CNV Array 6.0.

Individual probes of the Affymetrix Genome-Wide Human CNV Array 6.0 are represented in the 11q11 region. Each probe is specified by its probe identifier "CN_.....". The grey colored region indicates the minimal size deletion identified by Jarick et al (2011). None of the array probes are positioned within a gene. Arrows specify the boundaries of the maximal size deletion identified by Jarick et al (2011) and indicate the presence of *OR4C11* as potential extra gene involved in the deletion.