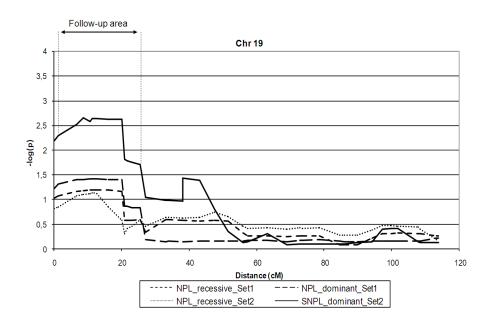
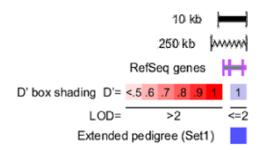


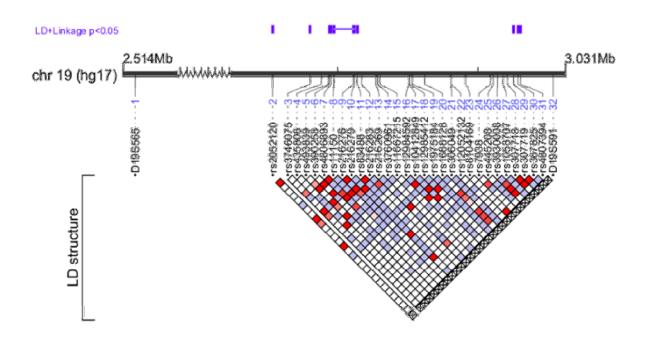
**Figure S1** Distribution of microsatellite marker LD+Linkage values of the initial genome-wide scan. Results produced by dominant Pseudomarker analysis in the extended pedigree (Set 1). The y-axis presents  $-\log(p)$  values as a function of genetic distance (x-axis, in cM). The single marker with  $-\log(p) > 2.5$  is displayed. Detailed results for D14S1071 (chromosome 14q12; genetic distance 28.2 cM, deCODE Genetic map) are: LD+Linkage  $-\log(p) = 2.76$ , LD|Linkage  $-\log(p) = 2.93$ .



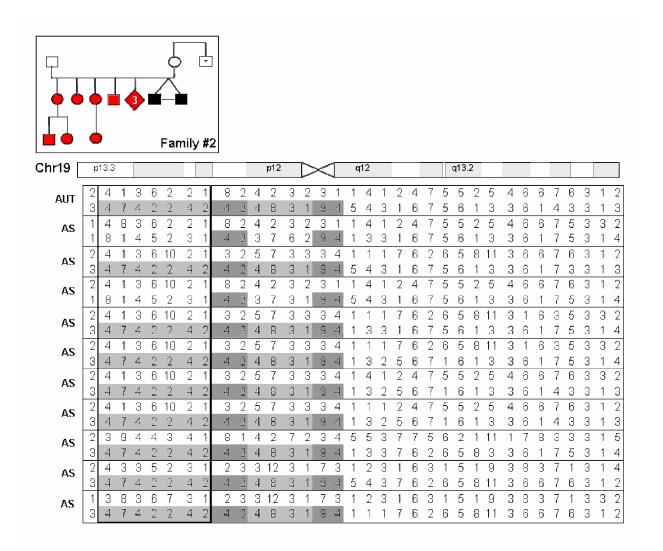
**Figure S2** Multipoint linkage results at chromosome 19p after the inclusion of seven follow-up microsatellites. Original number of markers in the initial scan was 34. Results produced by non-parametric Simwalk2 analysis in the extended pedigree. "NPL\_dominant" equals to the Simwalk2 "MAX-TREE" statistic, while "NPL\_recessive" equals to the "BLOCKS" statistics.







**Figure S3** The TLE gene cluster at 19p13.3. Figure illustrating the organization of the TLE-locus, including pairwise marker LD structure and markers giving significant association in the extended pedigree (Set1 results). Eight consecutive SNPs with p<0.04 in the same analysis are connected with a line. FLJ14009 stands for TLE6. Figure generated with LocusView 2.0 program (T. Petryshen, A. Kirby, M. Ainscow, unpublished software; http://www.broad.mit.edu/mpg/locusview/).



**Figure S4** Chromosome 19 microsatellite haplotypes of affected individuals in family #2 indicating shared regions. In the pedigree picture, autism is indicated with black and AS in red. Only microsatellites from the initial scan are included. The follow-up area from markers two to eight is delimited with borders. The family contains one additional individual with AS-diagnosis (\*), but the sample was not available for the initial scan.