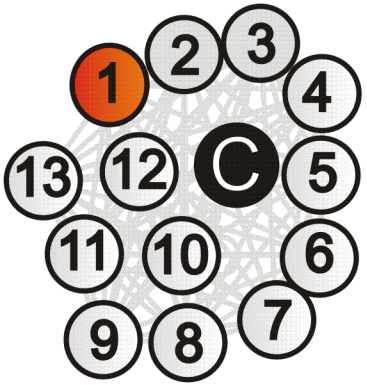
Case 4

ALS with frontotemporal dementia
Critical interval: 9q21-q22



Label	Protein description , HUGO identifier
C	Isoleucyl-tRNA synthetase, IARS
1	Superoxide dismutase, SOD1
2	C-1-tetrahydrofolate synthase, MTHFD1
3	Heat shock 70 kDa protein 8, HSPA8
4	Polyadenylate-binding protein 1, PABPC1
5	Alcohol dehydrogenase , AKR1A1
6	Asparaginyl-tRNA synthetase, NARS
7	Heat shock protein HSP 90-beta, HSP90AB1
8	Glycyl-tRNA synthetase , GARS
9	Eukaryotic translation initiation factor 5A , EIF5A
10	Bifunctional aminoacyl-tRNA synthetase, EPRS
11	Aspartyl-tRNA synthetase, DARS
12	Phosphoglucomutase-1 , PGM1
13	Ubiquitin-activating enzyme E1, UBE1

C IARS, best scoring candidate

1 SOD1, involved in ALS

Similar Identical

Automatic annotation of pairwise phenotypic similarity

Supplementary Figure 6 ALS with frontotemporal dementia candidate complex. A candidate complex pulled-down with one of 167 candidates lying in an interval on 9q21-22 associated to amyotrophic lateral sclerosis (ALS) with frontotemporal dementia by linkage analysis (**a**). The candidate protein IARS (C) is pulled down with 13 proteins where one SODI (1) is known to be involved in ALS. This protein is identified by the computational phenotype association scheme to be involved in a near identical phenotype. Based on this candidate complex the Bayesian predictor awards the candidate a score of 0.4924.