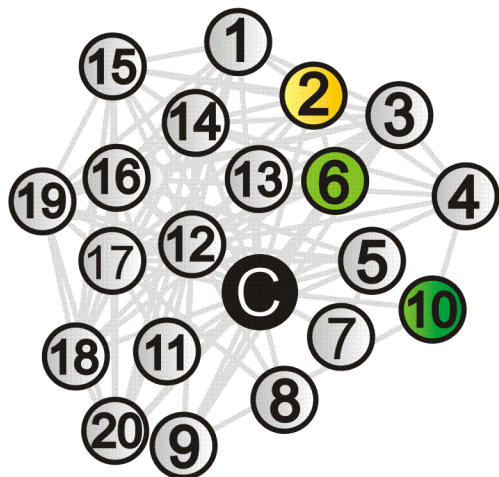


Case 3

Inflammatory Bowel Disease

Critical interval: 6p



C RIPK1, best scoring candidate

2 TNFRSF1B, involved in IBD

6 TNF, involved in IBD

10 TNFRSF1A, involved in severe localized inflammation and acute fever

Label	Protein description, HUGO identifier
C	Receptor-interacting. ser./thre.-prot kin.2, RIPK1
1	Thioredoxin, TXN
2	Tumor necrosis factor receptor 2, TNFRSF1B
3	TNFR1-assoc. DEATH domain protein, TRADD
4	Caspase-like apoptosis regulatory protein, CFLAR
5	COP9 signalosome complex subunit 5, COPS5
6	Tumor necrosis factor precursor, TNF
7	Tumor necrosis factor receptor member 6, FAS
8	Inhibitor of apoptosis protein 2, BIRC2
9	FADD protein, FADD
10	Tumor necrosis factor receptor precursor (p60), TNFRSF1A
11	NF-kappa-B essential modulator (NEMO), IKBKG
12	TNF receptor-associated factor 1, TRAF1
13	Serine/threonine-protein kinase, CDC42BPA
14	Focal adhesion kinase 1, PTK2
15	TNF receptor-associated factor 3 TRAF3
16	Tripartite motif protein 38 (RING finger protein 15), TRIM38
17	TNF receptor-associated factor 2, TRAF2
18	Caspase-8 precursor, CASP8

Similar

Identical



Automatic annotation of pairwise phenotypic similarity of proteins in the candidate complexes and the case phenotypes

Supplementary Figure 5 IBD candidate complex. A candidate complex pulled-down with one of 500 candidates lying in an interval on 6p associated to inflammatory bowel disease by linkage analysis (**a**). The candidate protein RIPKI (C) is pulled down with 20 proteins where three (2) (6) (10) are known to be involved in different types of inflammations, and/or inflammatory bowel disease. These proteins are identified by the computational phenotype association scheme to be involved in diseases similar to inflammatory bowel disease. Based on this module the Bayesian predictor awards the candidate a score of 0.3172.