

Title: Supplementary Data 1:

Description: A tab-delimited file containing network details, layer representation and resources

Title: Supplementary Data 2:

Description: A zip file containing edge lists of all networks used in the analyses

Title: Supplementary Data 3:

Description: A csv file containing details of networks derived from GTEx including original tissues, merged tissue groups, and abbreviation

Title: Supplementary Data 4:

Description: A tab-delimited file containing individual orphanet disease-gene association and top-level disease group

Title: Supplementary Data 5:

Description: A tab-delimited file containing orphanet top-level disease groups and gene associations

Title: Supplementary Data 6:

Description: A csv file containing processed gene list from patients in the local cohort

Title: Supplementary Data 7:

Description: A csv file containing associated phenotypes of patients in the local cohort

Title: Supplementary Data 8:

Description: A csv file containing counts of PubMed articles associated with each gene

Title: Supplementary Data 9:

Description: A tab-delimited file containing a list of essential genes in human based on OGEE database

Title: Supplementary Data 10:

Description: A tsv file containing standard gene symbols with Ensembl identifiers used throughout the analyses

Title: Supplementary Data 11

Description: Summary of genotypes (filtered gene lists, see Methods) and phenotypes including associated HPO IDs, sex (M=male, F=female), and age (in years) of patients in the local cohort. Computer-readable formats of this dataset is provided in Supplementary Data 6 and 7.