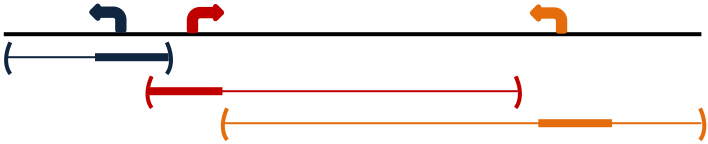
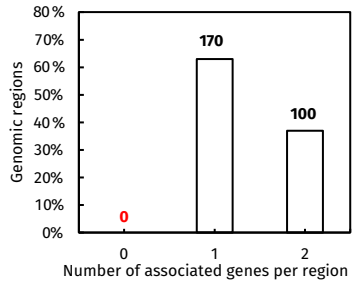
A



B



C

Biological Process

Term Name	Binom Rank	Binom Raw P-Value	*Binom FDR Q-Val*	Binom Fold Enrichment
M phase	1	1.7783e-41	1.5581e-37	7.5233
mitotic cell cycle	2	3.6271e-41	1.5891e-37	6.1400
cell cycle phase	3	1.6755e-40	4.8935e-37	5.6296
cell cycle process	4	5.4197e-40	1.1872e-36	4.9332
M phase of mitotic cell cycle	5	4.5166e-39	7.9150e-36	8.9539
cell cycle	6	1.2698e-38	1.8544e-35	4.1983
mitosis	7	3.0859e-37	3.8627e-34	8.7568
organelle fission	8	7.6293e-36	8.3560e-33	8.2475
cell division	9	1.7297e-28	1.6840e-25	5.9665
microtubule-based process	10	2.1893e-20	1.9183e-17	5.5123
organelle organization	11	1.1183e-19	8.9074e-17	2.4549
chromosome segregation	12	1.5173e-17	1.1079e-14	8.9537
spindle organization	13	2.6727e-17	1.8014e-14	14.7475
mitotic prometaphase	14	1.3697e-15	8.5722e-13	10.1421
microtubule cytoskeleton organization	15	1.5088e-15	8.8134e-13	6.1583
regulation of cell cycle process	16	1.4377e-13	7.8732e-11	4.0806
regulation of cell cycle	17	2.6094e-13	1.3449e-10	2.9940
interphase of mitotic cell cycle	18	5.2943e-11	2.5771e-8	4.2200
regulation of mitotic cell cycle	19	6.7967e-11	3.1343e-8	4.3147
interphase	20	6.8959e-11	3.0211e-8	4.1733

D

Cellular Component

Term Name	Binom Rank	Binom Raw P-Value	*Binom FDR Q-Val*	Binom Fold Enrichment
spindle	1	1.9338e-21	2.1678e-18	7.0984
microtubule cytoskeleton	2	1.8316e-20	1.0266e-17	3.4833
cytoskeletal part	3	1.0893e-16	4.0705e-14	2.6707
condensed chromosome	4	6.8162e-15	1.9102e-12	7.7237
chromosome, centromeric region	6	5.0635e-14	9.4604e-12	7.0514
spindle pole	7	1.6722e-13	2.6779e-11	9.1864
cytoskeleton	8	3.6615e-13	5.1307e-11	2.1184
condensed chromosome, centromeric region	10	3.6705e-12	4.1146e-10	9.0348
microtubule	11	7.7477e-12	7.8956e-10	3.9366
kinetochore	13	2.3703e-11	2.0439e-9	8.0481
microtubule organizing center	14	1.7210e-10	1.3780e-8	3.4261
chromosomal part	15	2.4165e-10	1.8060e-8	3.2407
condensed chromosome kinetochore	16	2.5277e-10	1.7710e-8	8.1660
centrosome	17	4.7117e-10	3.1069e-8	3.8447
spindle microtubule	18	7.8567e-10	4.8930e-8	11.8371
chromosome	19	3.2961e-9	1.9447e-7	2.8918
nuclear inner membrane	27	2.2856e-7	9.4895e-6	13.2964
condensed nuclear chromosome	29	7.3030e-7	2.8230e-5	9.3669
midbody	31	9.6894e-7	3.5038e-5	6.8073
condensed nuclear chromosome kinetochore	34	4.3624e-6	1.4383e-4	99.9218

E

Mouse Phenotype

Term Name	Binom Rank	Binom Raw P-Value	*Binom FDR Q-Val*	Binom Fold Enrichment
abnormal cell cycle	1	2.0913e-9	1.5254e-5	4.6070
abnormal mitosis	2	1.1309e-8	4.1245e-5	6.7567
abnormal nucleus morphology	3	3.9210e-8	9.5332e-5	5.3030
abnormal mitotic spindle	4	1.6706e-7	3.0463e-4	13.8644
abnormal chromosome number	5	8.3683e-7	1.2208e-3	7.8758
abnormal cell content or morphology	6	1.4849e-5	1.8051e-2	2.8328
embryonic lethality before implantation	7	2.7157e-5	2.8298e-2	4.0500
complete embryonic lethality before implantation	8	2.8471e-5	2.5959e-2	4.3424
aneuploidy	10	6.6989e-5	4.8862e-2	7.1837

F

MSigDB Pathway

Term Name	Binom Rank	Binom Raw P-Value	*Binom FDR Q-Val*	Binom Fold Enrichment
Genes involved in Cell Cycle, Mitotic	1	1.0162e-23	8.9426e-21	6.9290
Genes involved in Mitotic M-M/G1 phases	2	2.8218e-15	1.2416e-12	8.0365
Genes involved in Mitotic Prometaphase	3	5.2594e-14	1.5428e-11	9.0635
Genes involved in G2/M Transition	4	5.4452e-11	1.1979e-8	9.0878
Cell cycle	5	5.8993e-11	1.0383e-8	6.5971
Genes involved in Cyclin A1 associated events during G2/M transition	6	2.2809e-9	3.3453e-7	24.3553
Cell Cycle: G2/M Checkpoint	7	1.9502e-8	2.4517e-6	18.4139
Genes involved in Centrosome maturation	8	4.6879e-7	5.1567e-5	7.3399
Genes involved in Loss of Nlp from mitotic centrosomes	9	1.7471e-6	1.7083e-4	7.2471
Genes involved in Regulation of APC/C activators between G1/S and early anaphase	10	4.7361e-6	4.1677e-4	7.4290
Role of Ran in mitotic spindle regulation	11	7.1873e-6	5.7498e-4	33.9131
Genes involved in Processing of Capped Intron-Containing Pre-mRNA	12	1.4507e-5	1.0639e-3	5.6727
Genes involved in Transport of Ribonucleoproteins into the Host Nucleus	13	2.8010e-5	1.8961e-3	10.5251
Genes involved in Nuclear import of Rev protein	14	2.8994e-5	1.8225e-3	10.4595
RB Tumor Suppressor/Checkpoint Signaling in response to DNA damage	15	3.4981e-5	2.0522e-3	22.5683
p53 signaling pathway	16	5.3492e-5	2.9420e-3	4.8516
Activation of Src by Protein-tyrosine phosphatase alpha	17	1.2617e-4	6.5312e-3	16.1522
Genes involved in Cell Cycle Checkpoints	18	1.4100e-4	6.8936e-3	4.7779
Genes involved in G2/M Checkpoints	19	1.5578e-4	7.2151e-3	7.6797
Oocyte meiosis	20	1.8276e-4	8.0413e-3	3.5576