

Table S3. Permutation results for NcoI Hi-C data.

Dataset	Total # Unique Translo- cations	Translo- cations	Permut- ations	Permutation P-Value	T-test	Rank Sum	# of individually significant translocations
Mitelman Database (total)	577	0.15	0.00	<0.001	1.83E-29	4.84E-35	7
Blood	440	0.17	0.01	<0.001	4.69E-25	8.29E-30	4
Non-Blood	137	0.08	-0.04	<0.001	2.95E-06	3.05E-07	3
Multiple myeloma	89	0.11	-0.02	<0.001	4.48E-03	1.47E-02	2
Prostate cancer	89	0.00	-0.08	0.001	2.19E-03	3.41E-03	1
Mendelian	779	-0.02	-0.07	<0.001	1.09E-05	1.60E-04	2