

**Figure S8.** Cross-cancer alteration summary for CHD7,DHX33, NOLC1 and MYC among 123 studies. 99 cancer types, that possess alteration in these genes are displayed in the histogram. In 49 types of cancer alterations in these genes occur in more than 10% of cases In particular, Breast cancer, NEPC (Neuroendocrine Prostate Cancer) and Ovarian Serous Cystadenocarcinoma have the highest rate of alterations of these genes in tumor samples – 62,1%, 53,3% and 45% of cases, respectively.