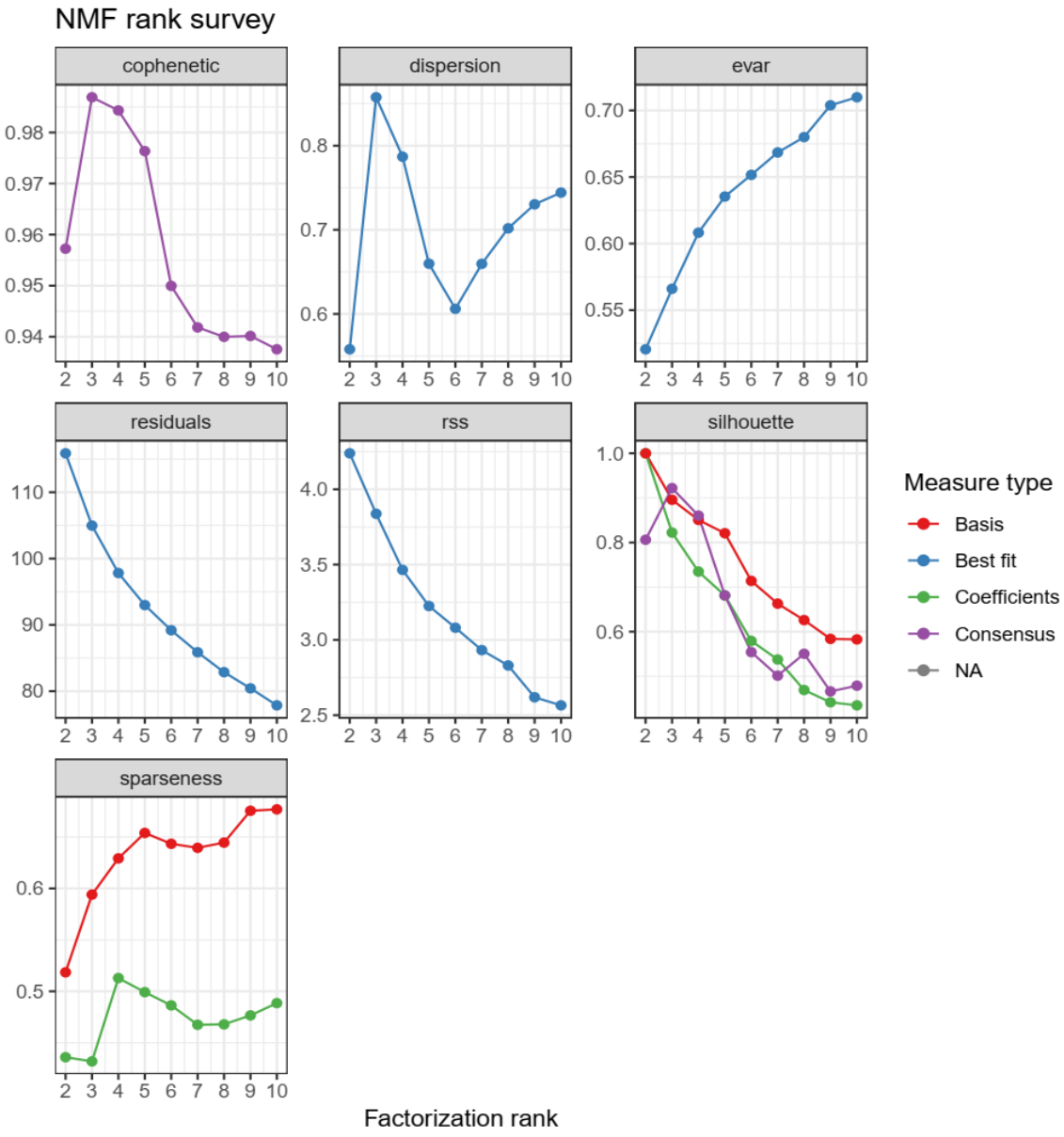

S1 Fig. *De novo* mutational signature identification by "NMF" package.