

Figure S1A

ACRG
Targeted Sequencing

Pfizer/Hong Kong
Whole Genome
Sequencing

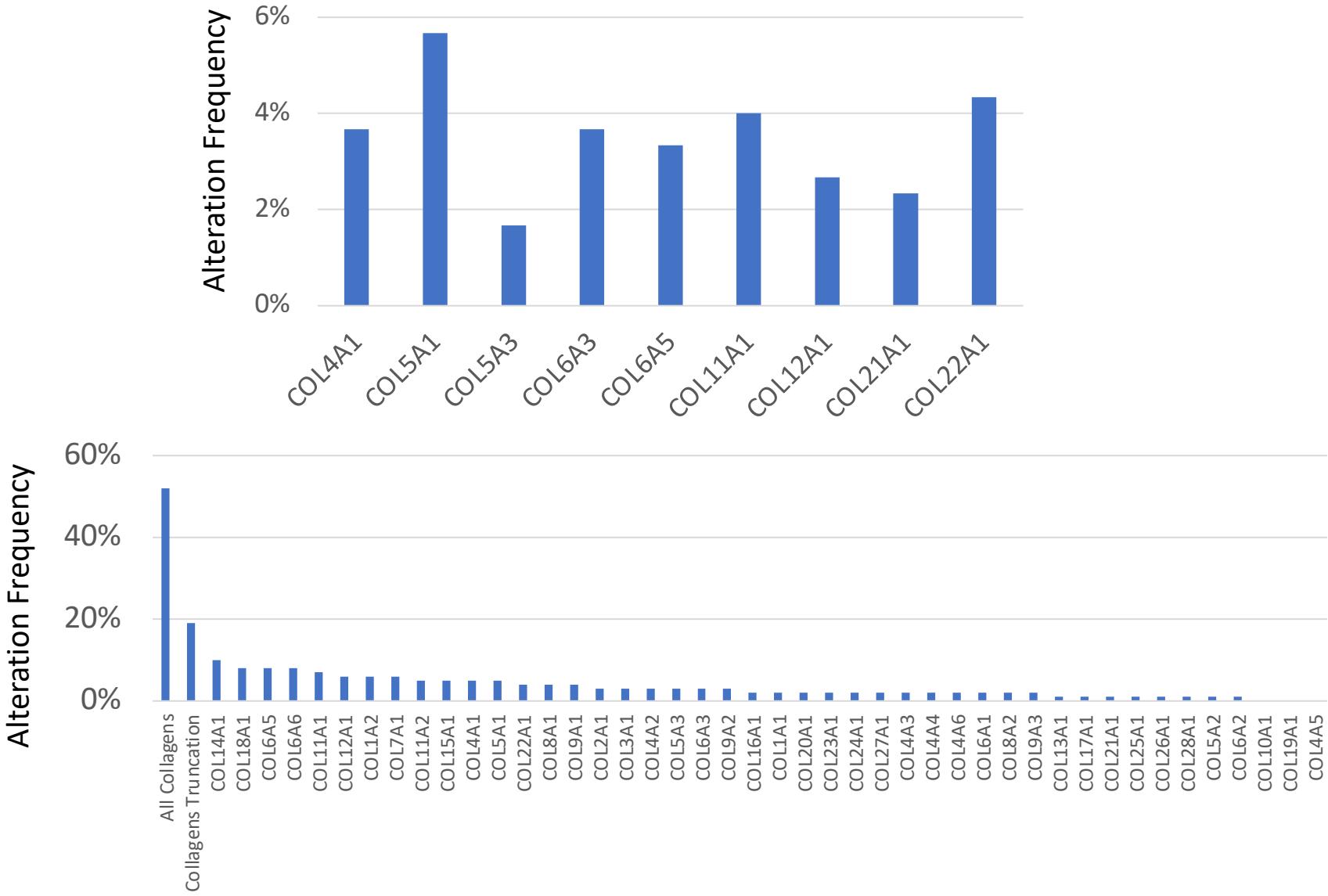


Figure S1B

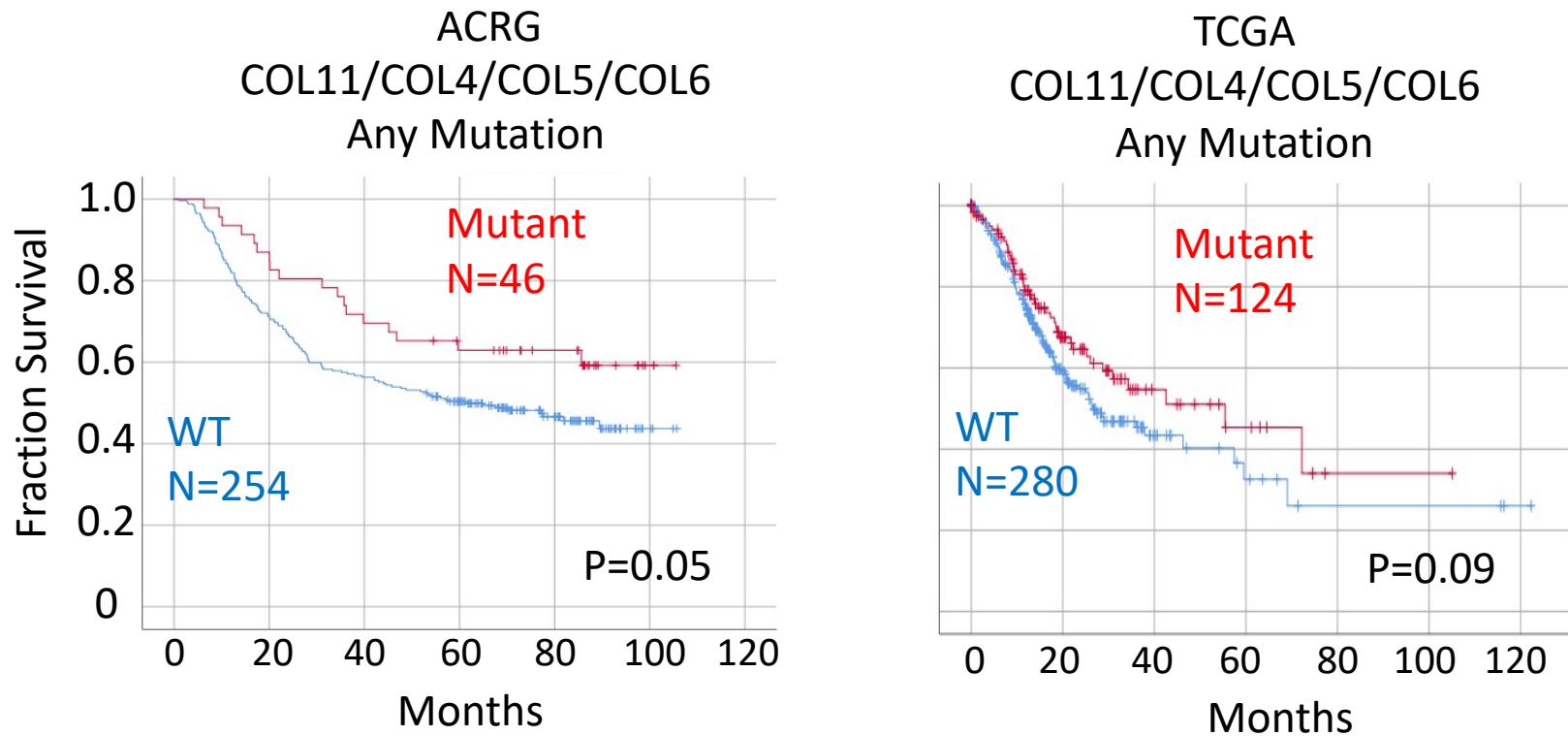


Figure S2A

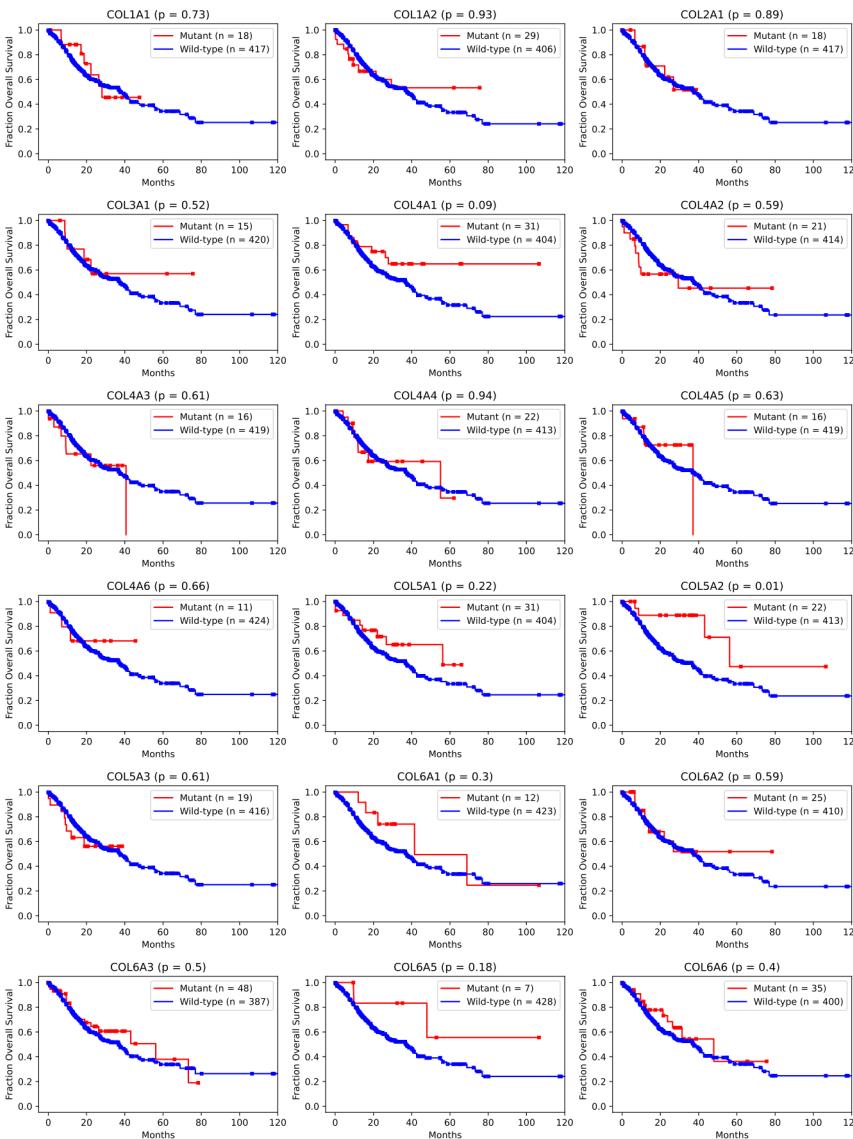


Figure S2A

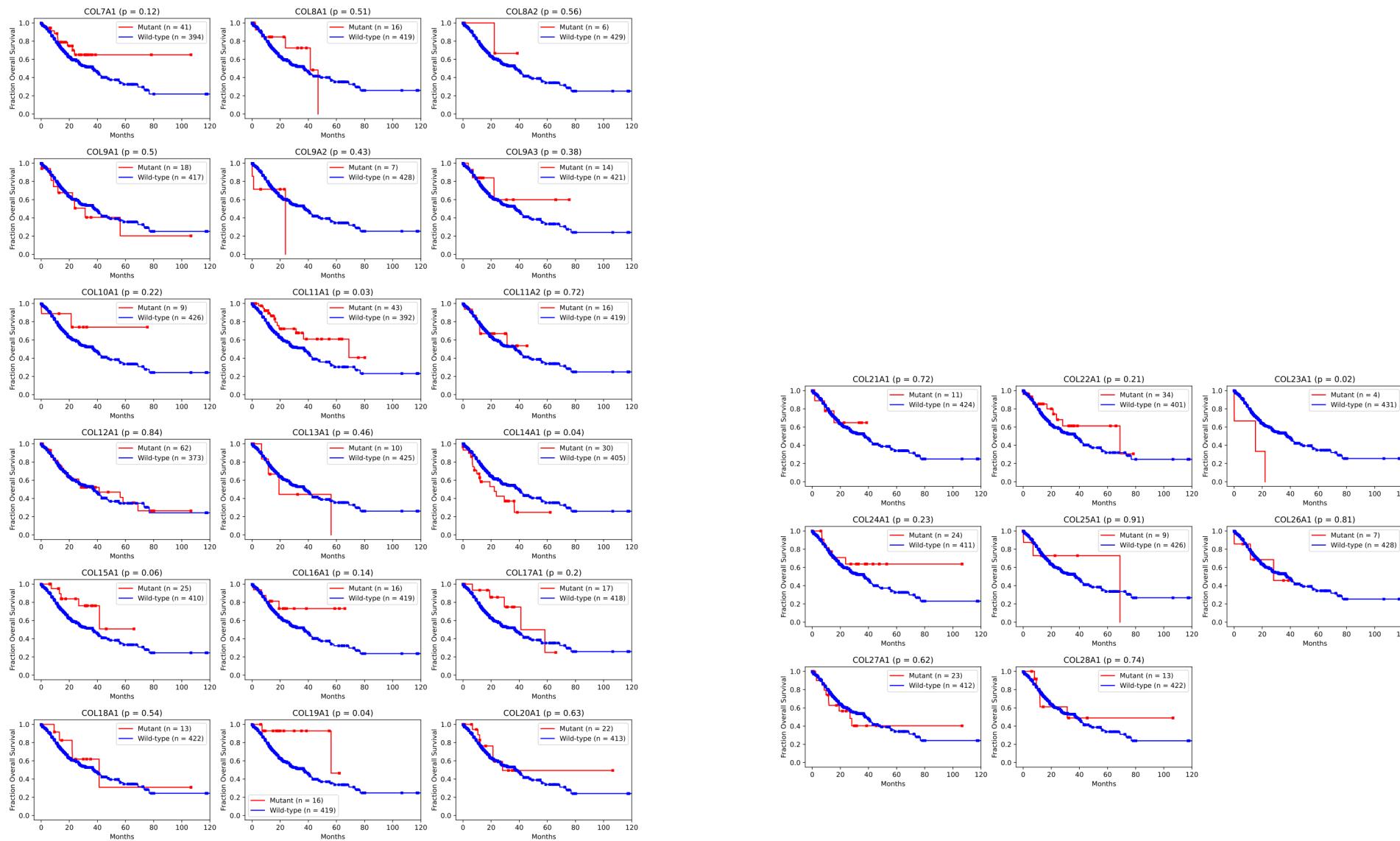


Figure S2B

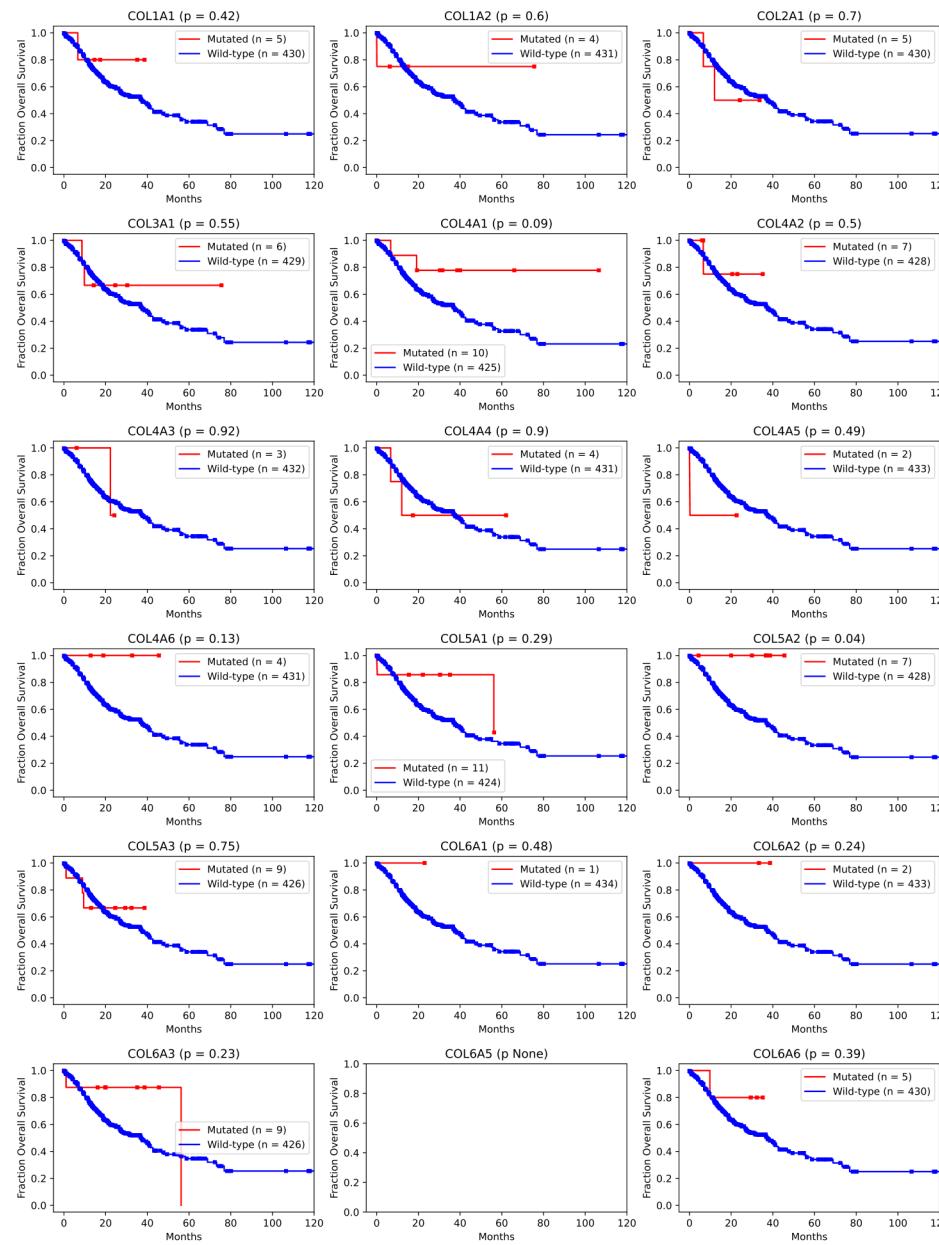


Figure S2B

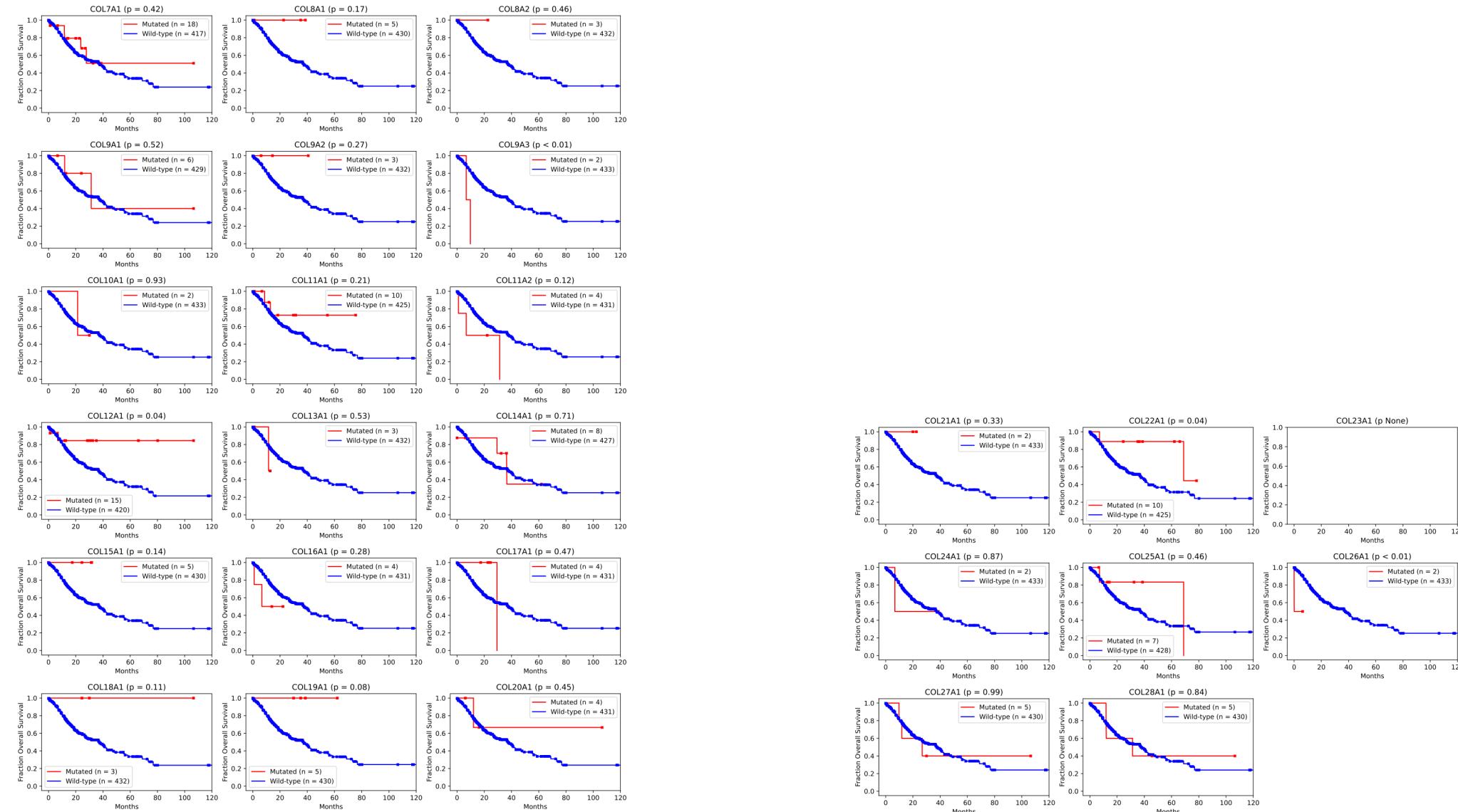


Figure S2C

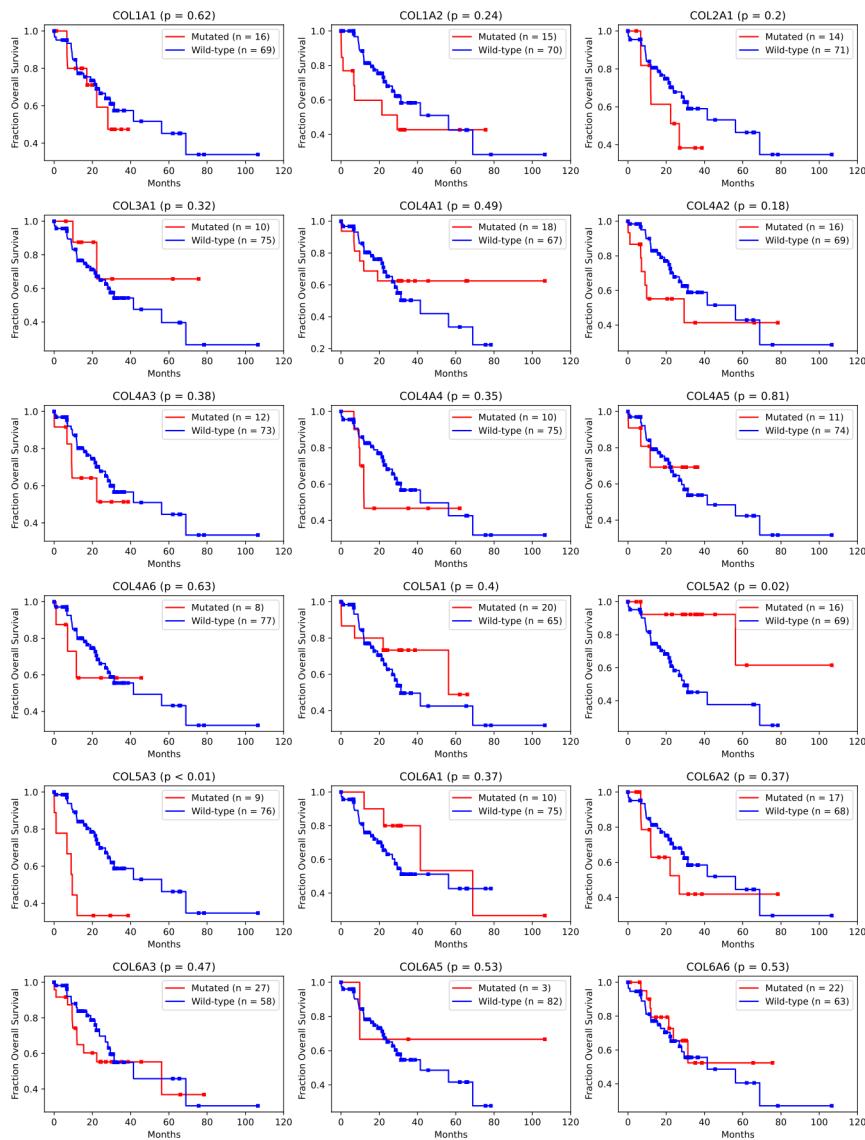


Figure S2C

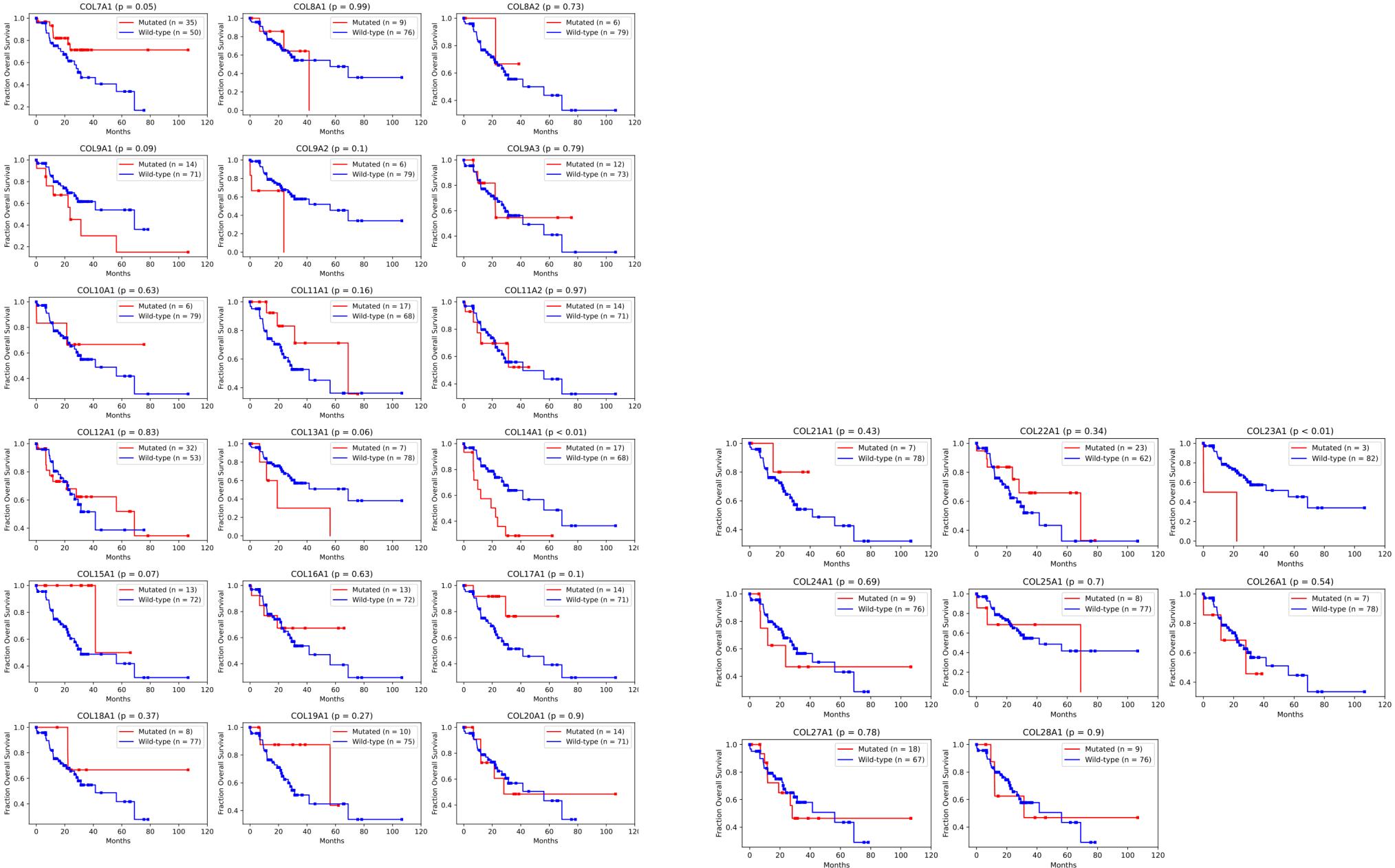


Figure S3A

All Cases
56 Combinations
All Mutations

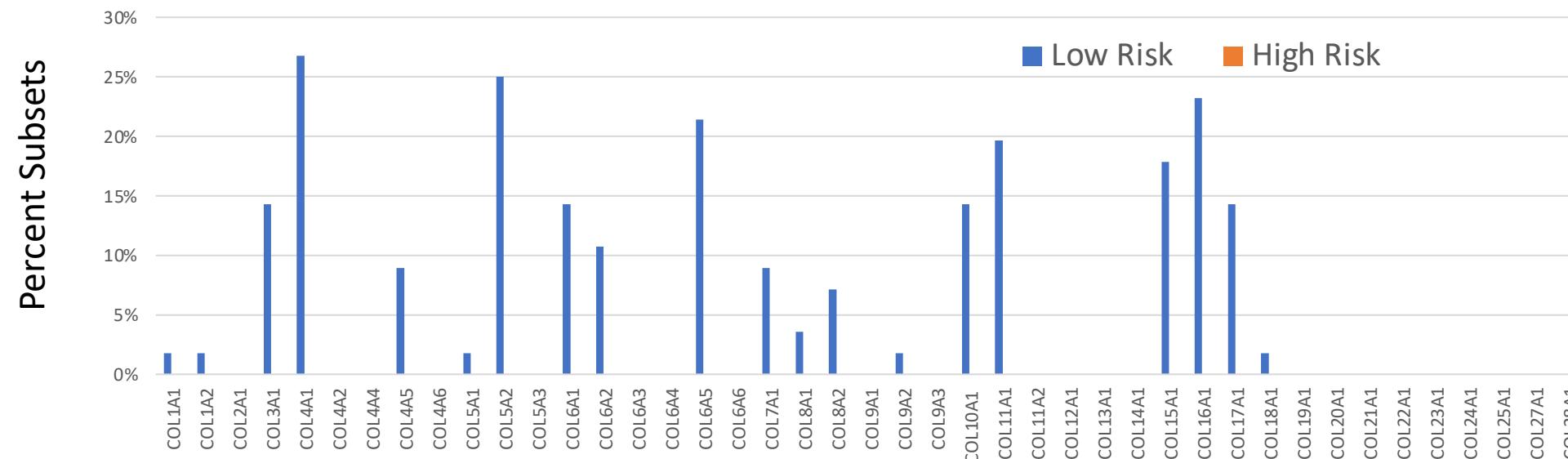


Figure S3B

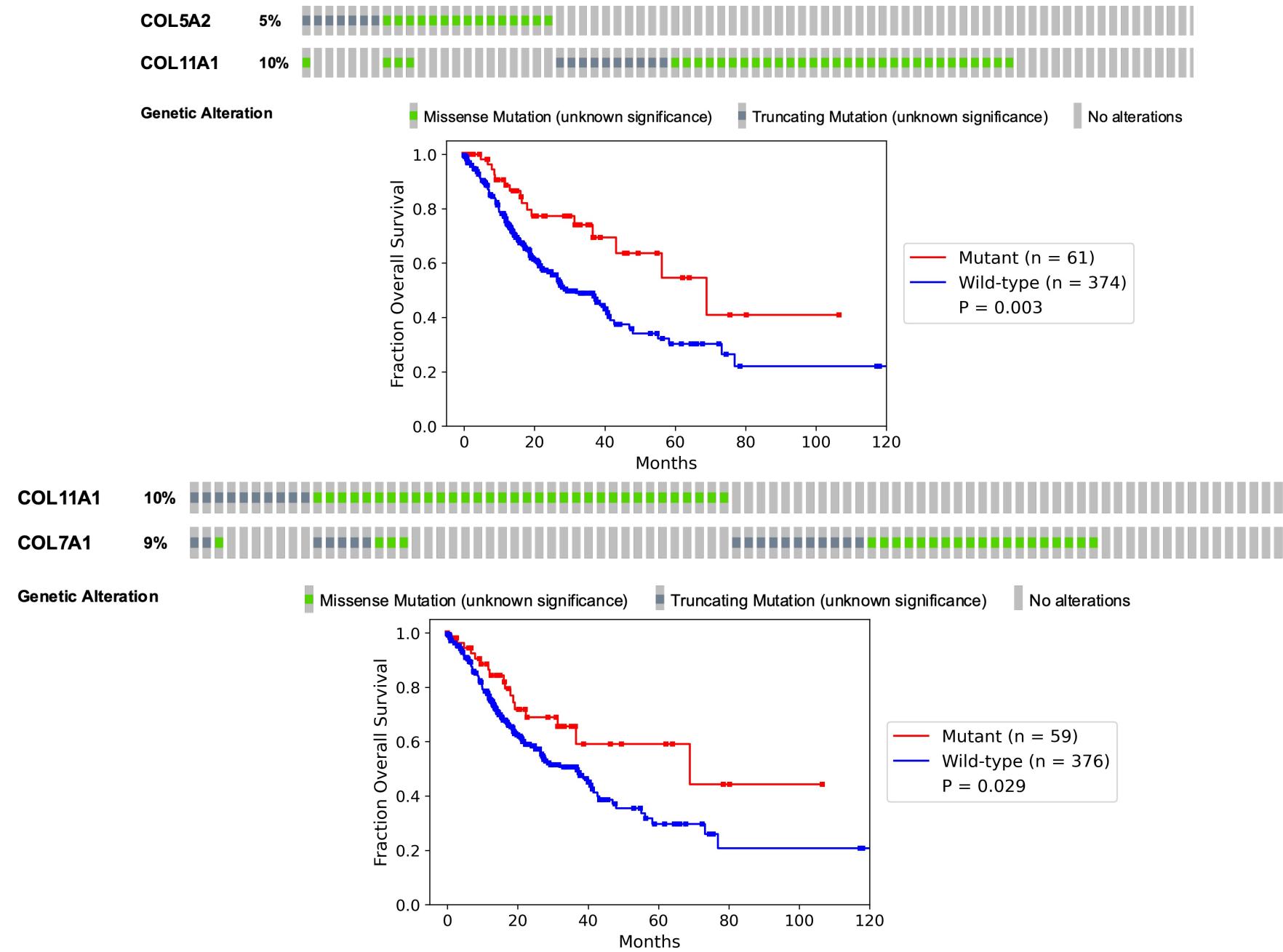


Figure S3C

MSS
66 Combinations

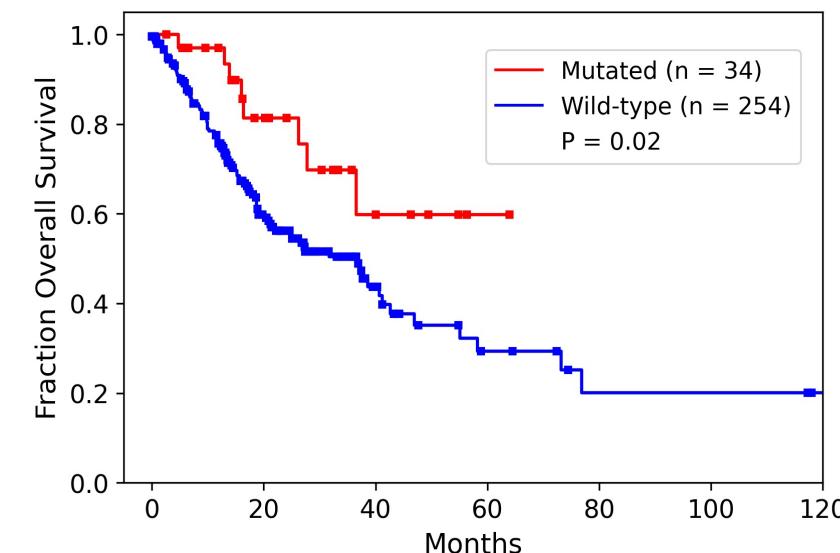
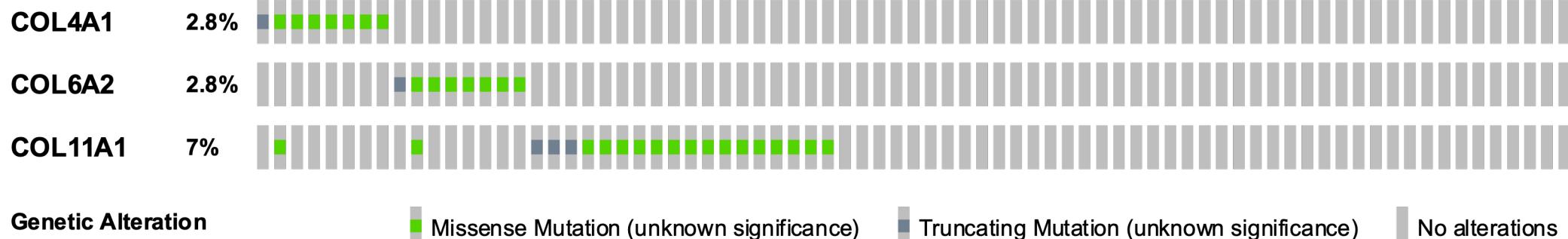


Figure S3D

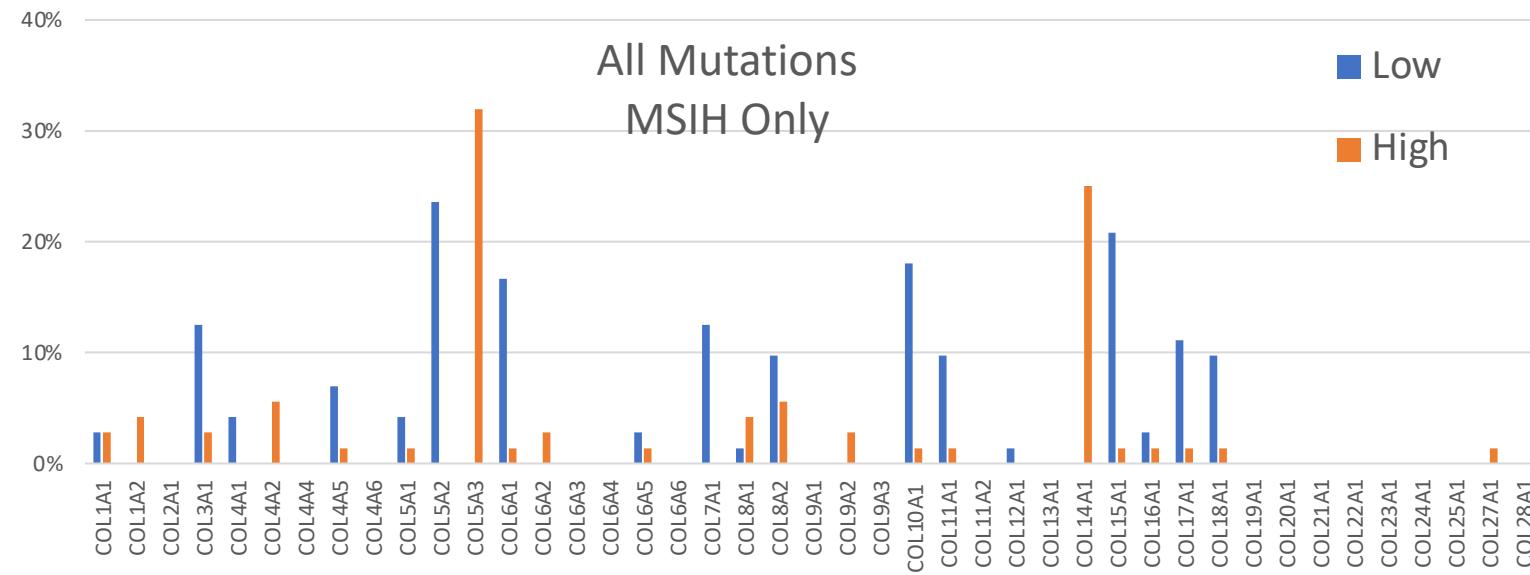


Figure S3E

MSIH only; most frequent significant OS associated collagens

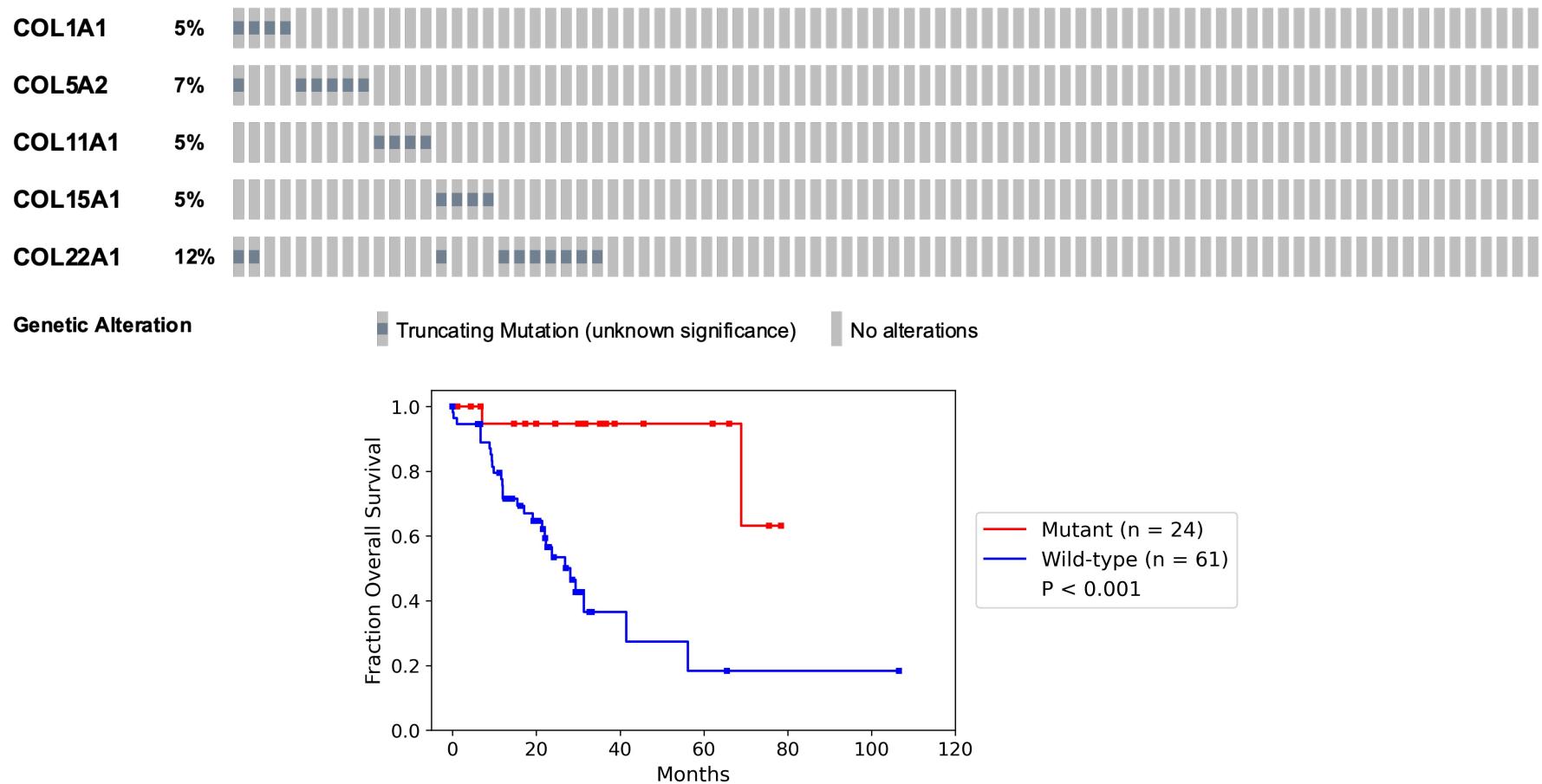
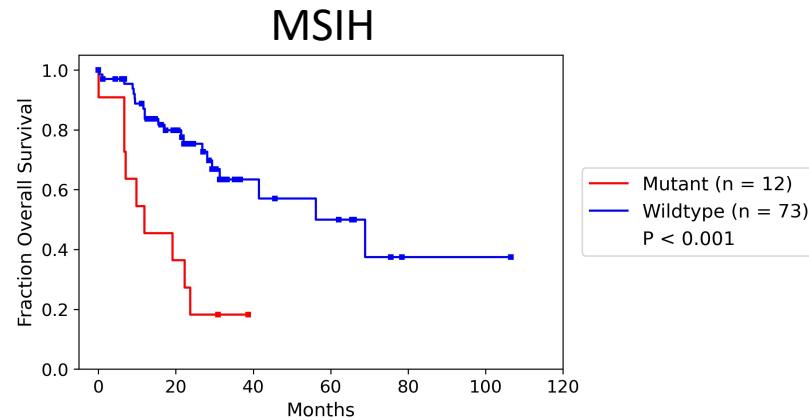
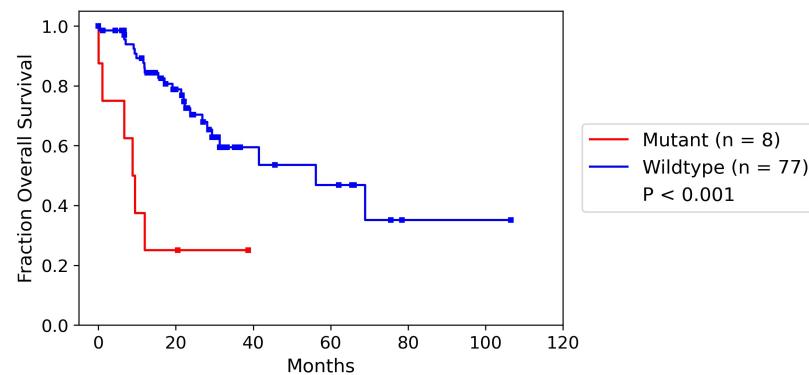


Figure S4

Missense
COL14A1



All
COL5A3



MSS

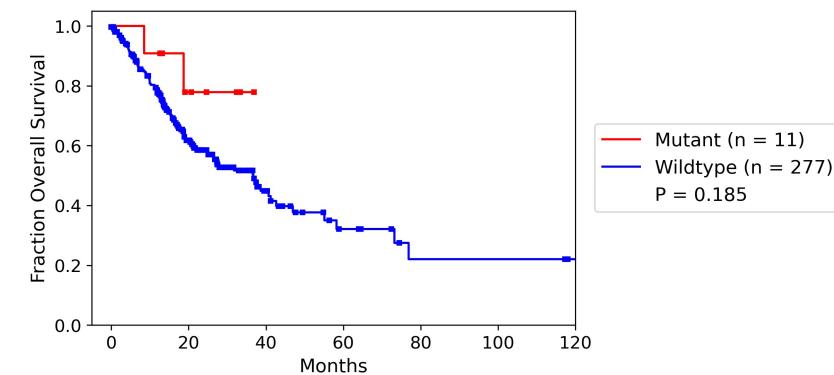
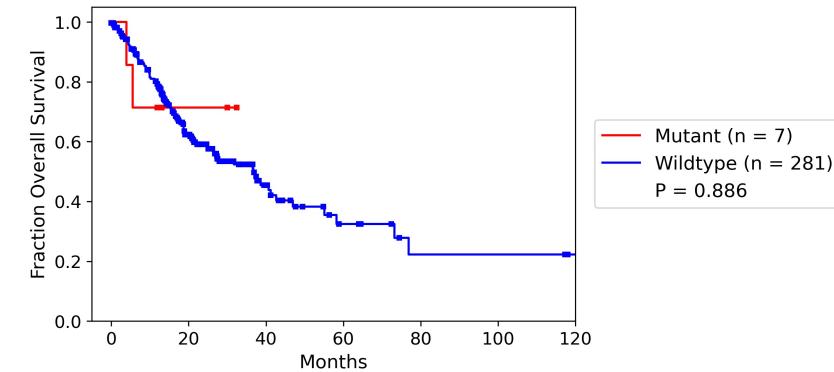


Figure S5A

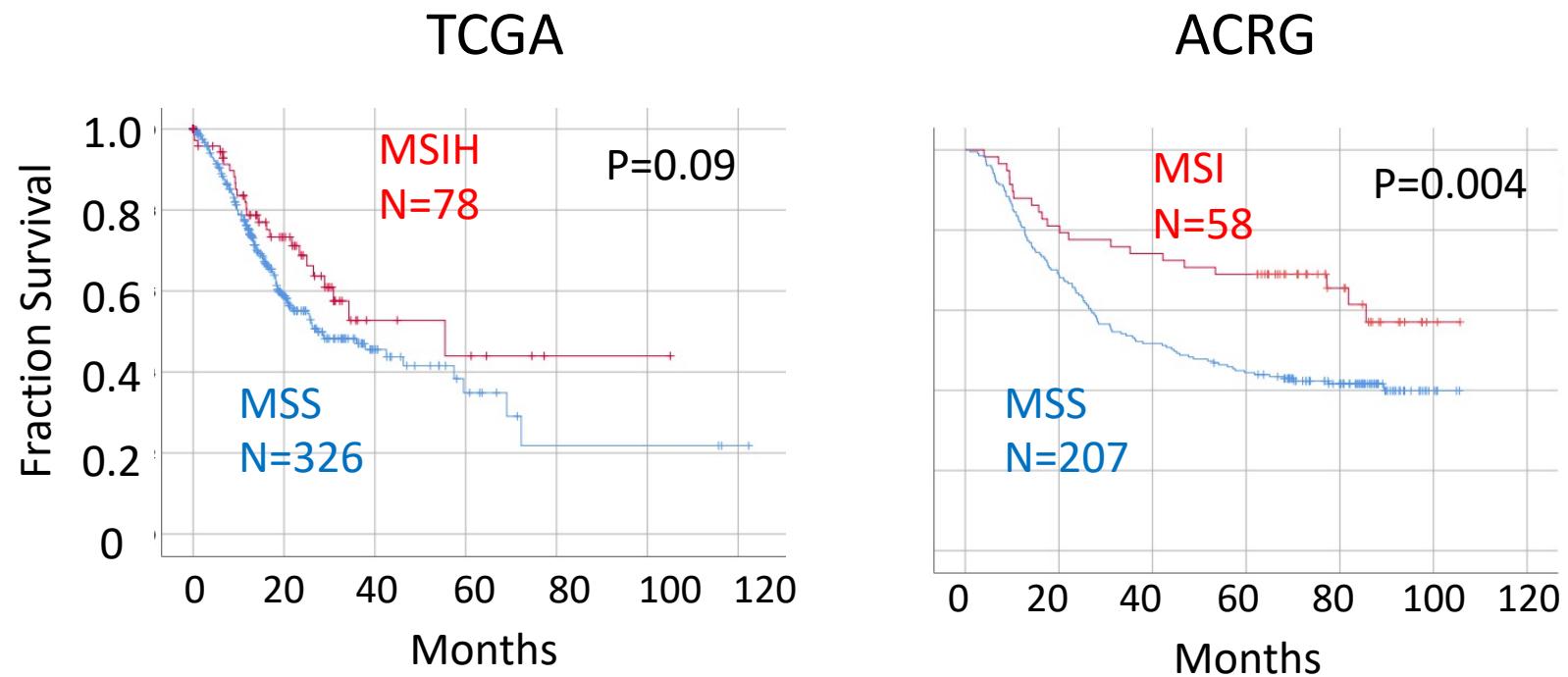


Figure S5B

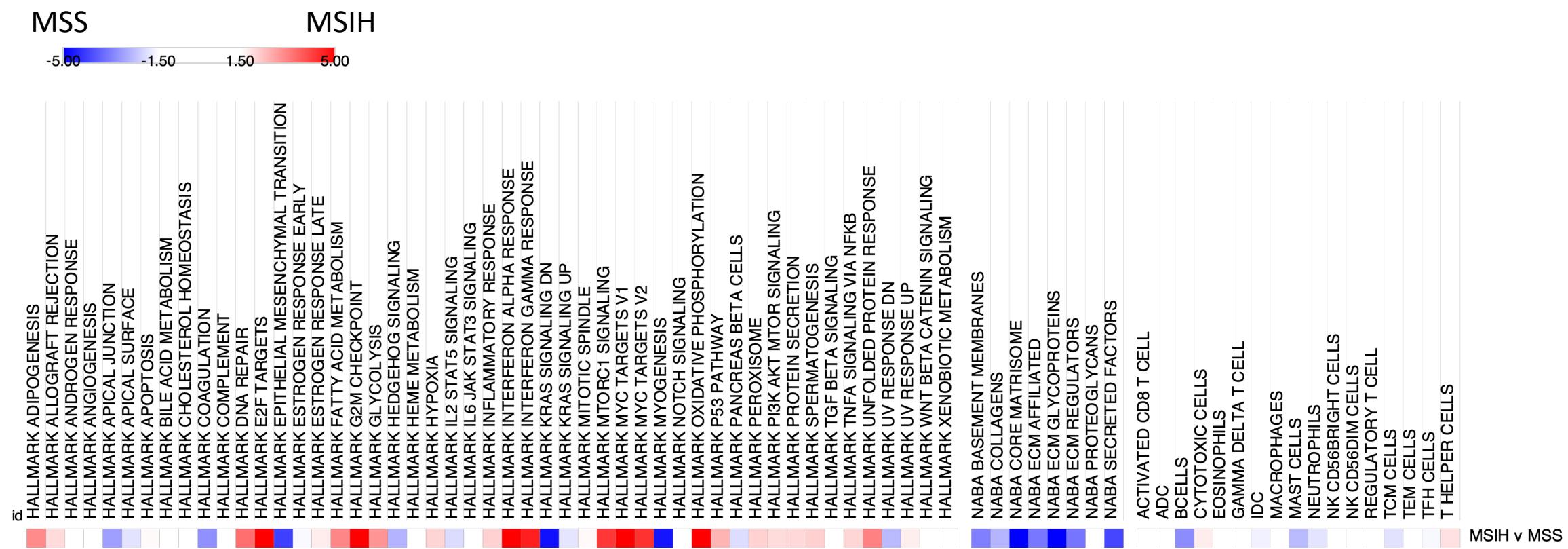


Figure S6A

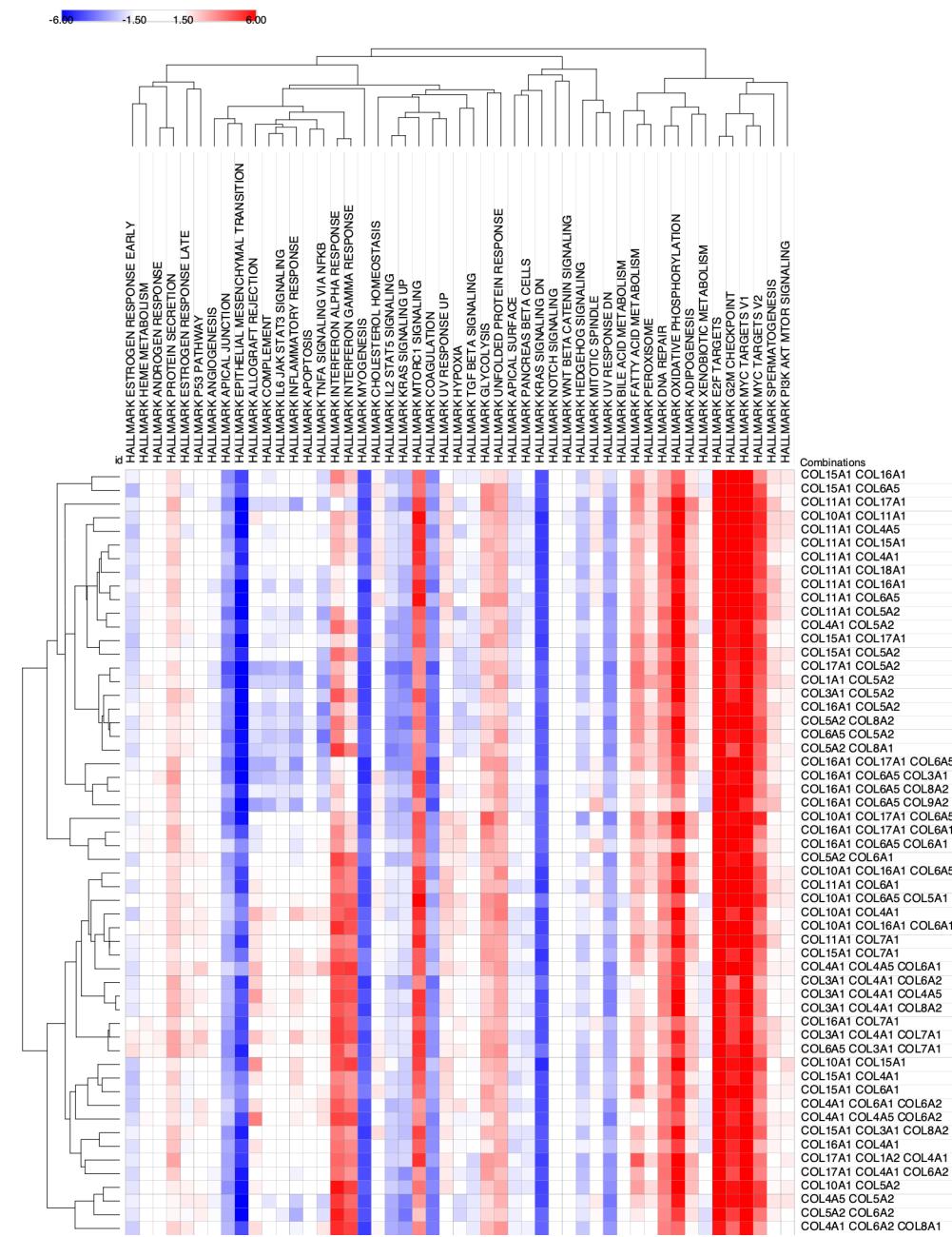


Figure S6B

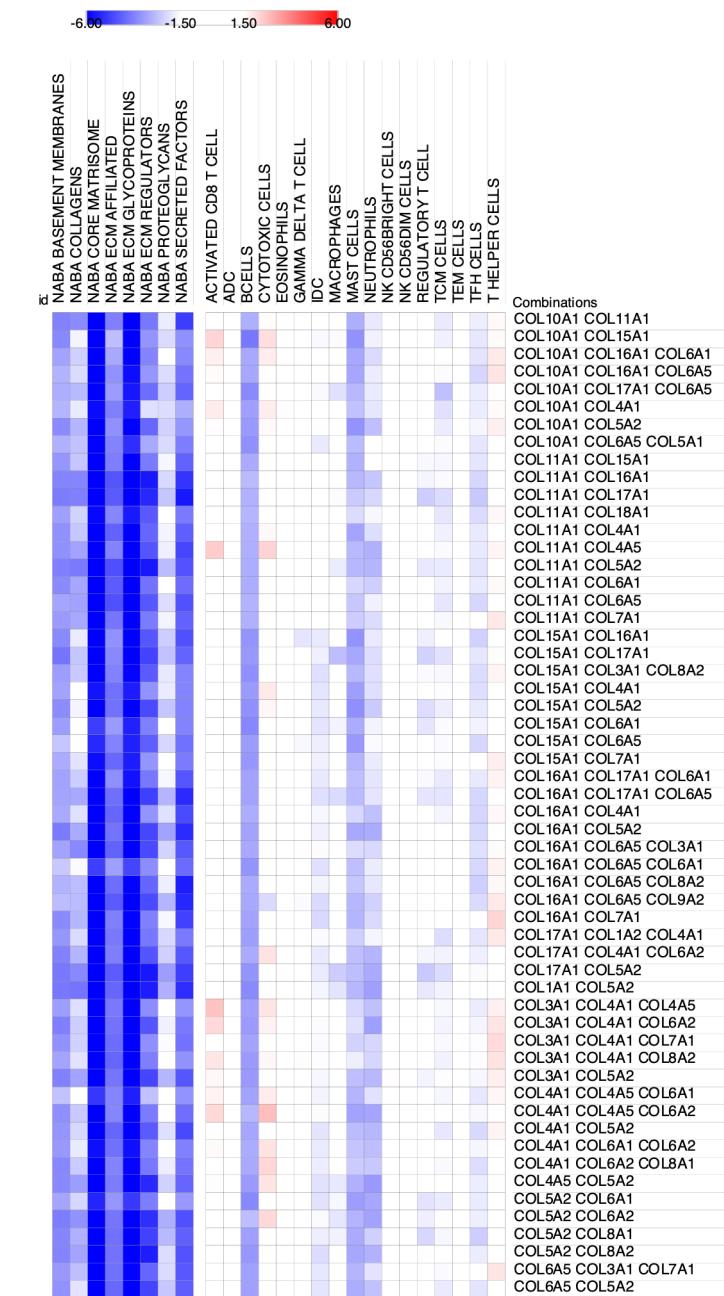


Figure S6C

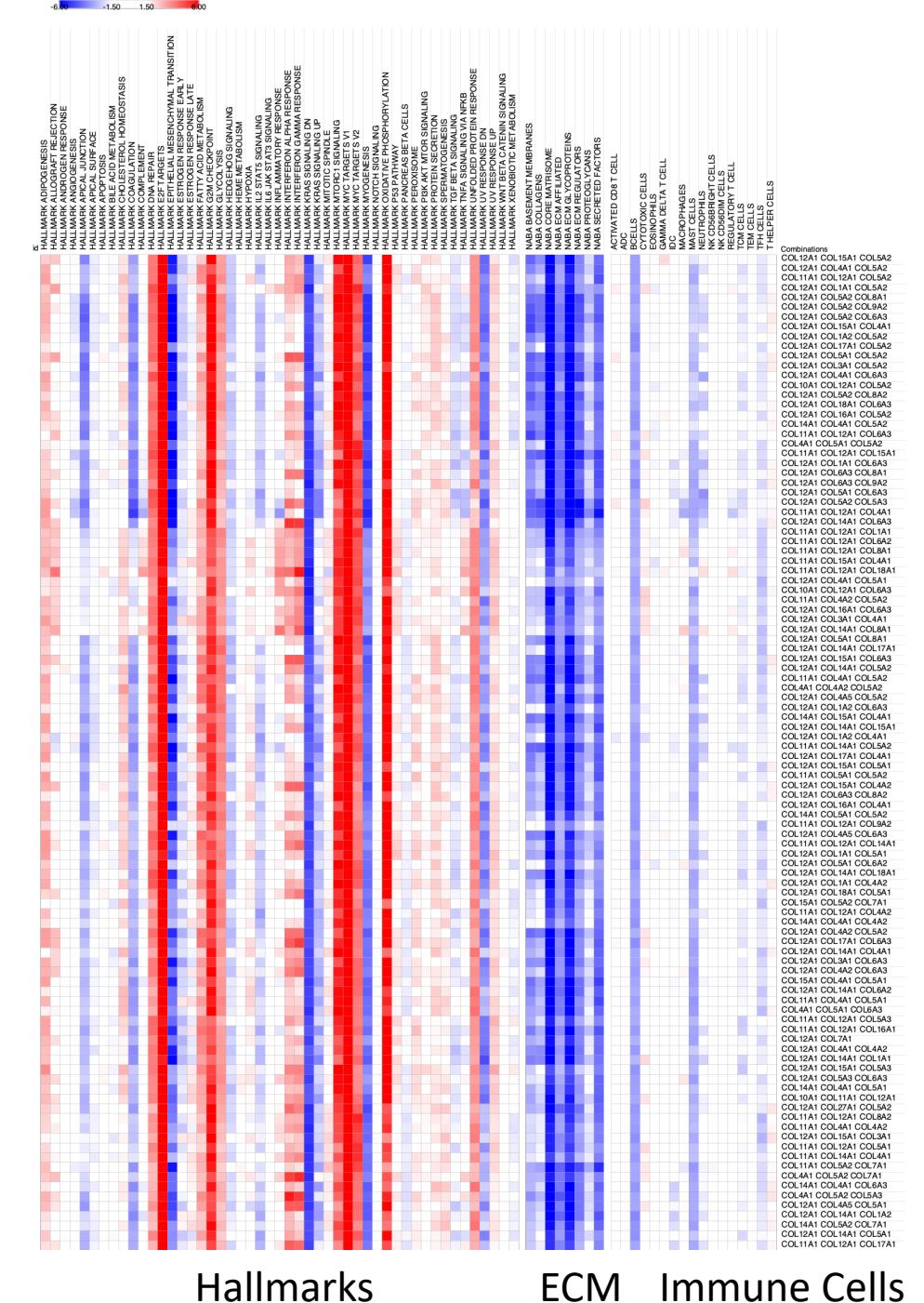
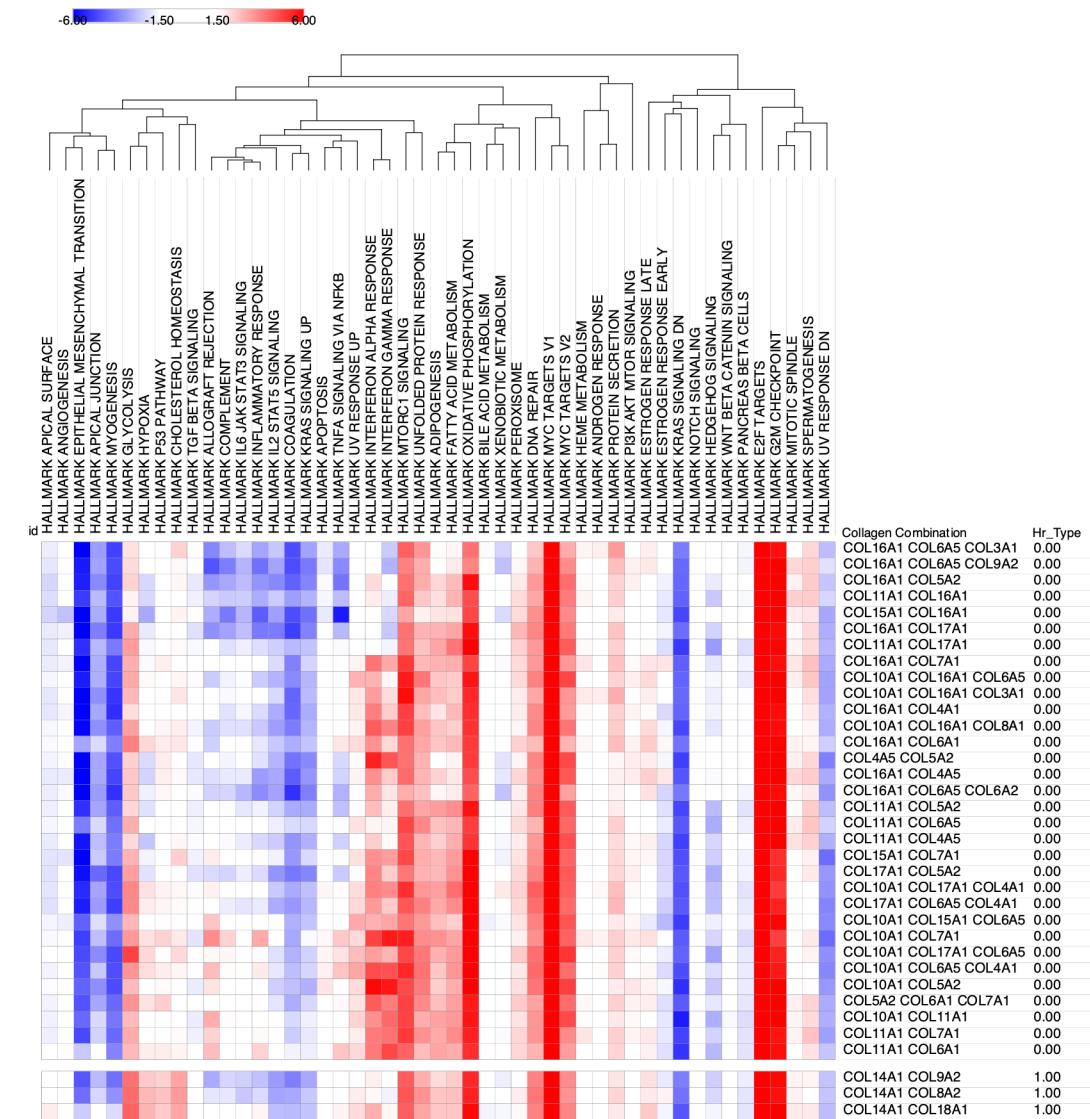
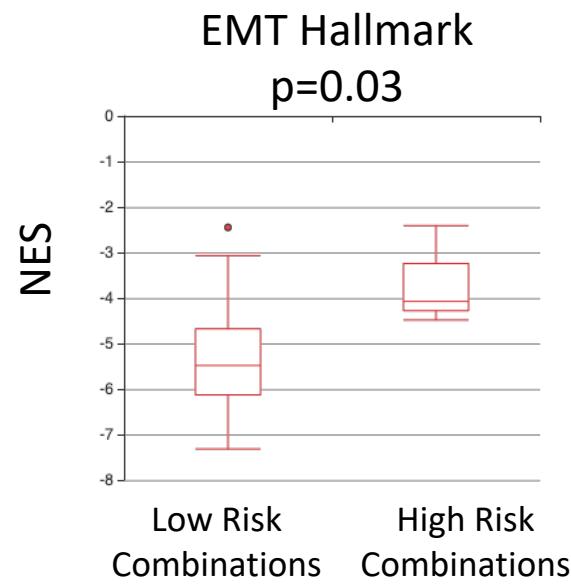


Figure S6D



Low Risk
 $HR < 1$

High Risk
 $HR > 1$

Figure S7A

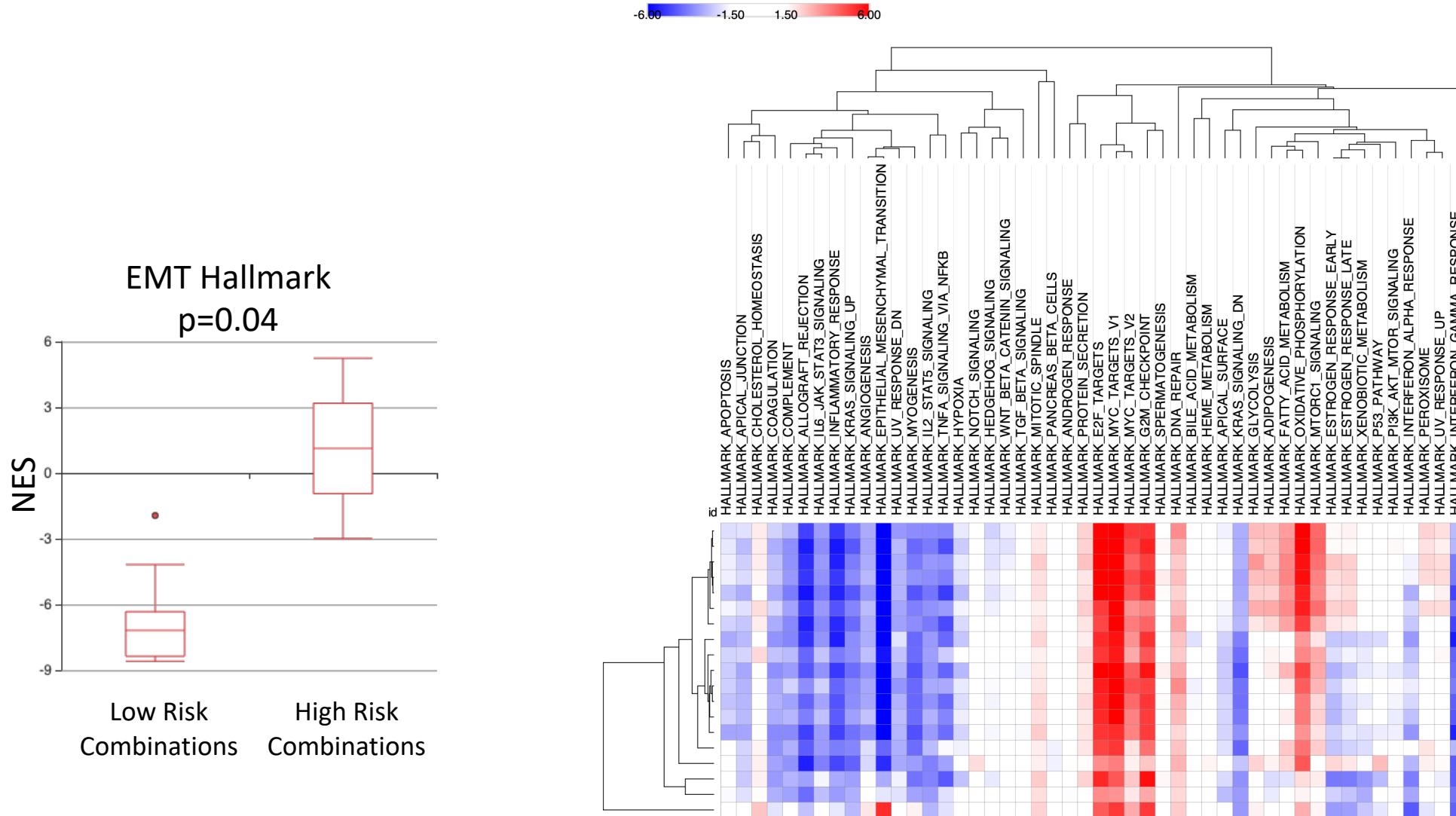
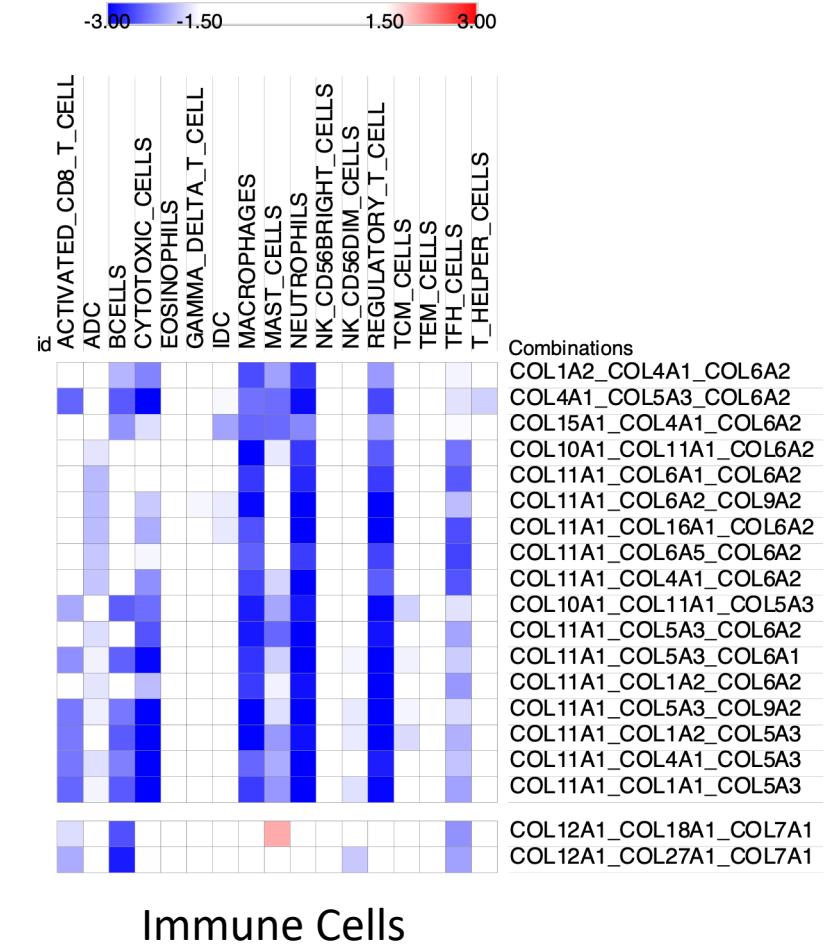
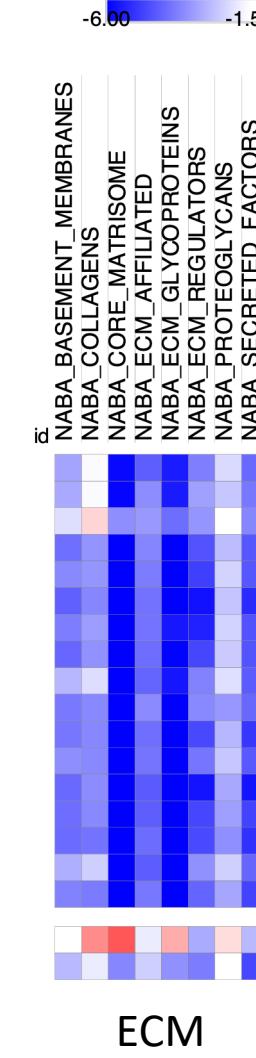
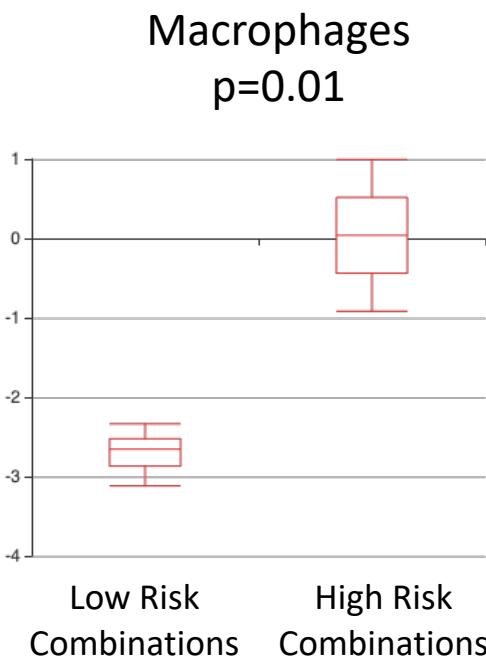
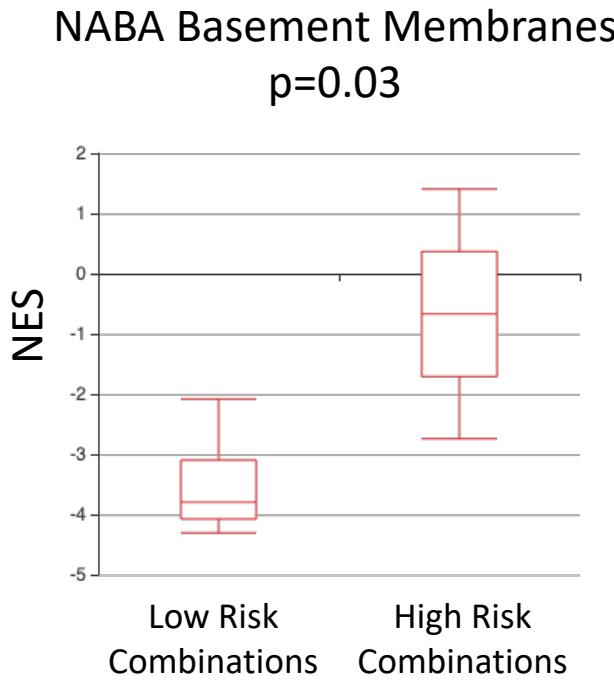


Figure S7B



Combinations

- COL1A2_COL4A1_COL6A2
- COL4A1_COL5A3_COL6A2
- COL15A1_COL4A1_COL6A2
- COL10A1_COL11A1_COL6A2
- COL11A1_COL6A1_COL6A2
- COL11A1_COL6A2_COL9A2
- COL11A1_COL16A1_COL6A2
- COL11A1_COL6A5_COL6A2
- COL11A1_COL4A1_COL6A2
- COL10A1_COL11A1_COL5A3
- COL11A1_COL5A3_COL6A2
- COL11A1_COL5A3_COL6A1
- COL11A1_COL1A2_COL6A2
- COL11A1_COL5A3_COL5A3
- COL11A1_COL1A2_COL5A3
- COL11A1_COL4A1_COL5A3
- COL11A1_COL1A1_COL5A3
- COL12A1_COL18A1_COL7A1
- COL12A1_COL27A1_COL7A1

Figure S8A

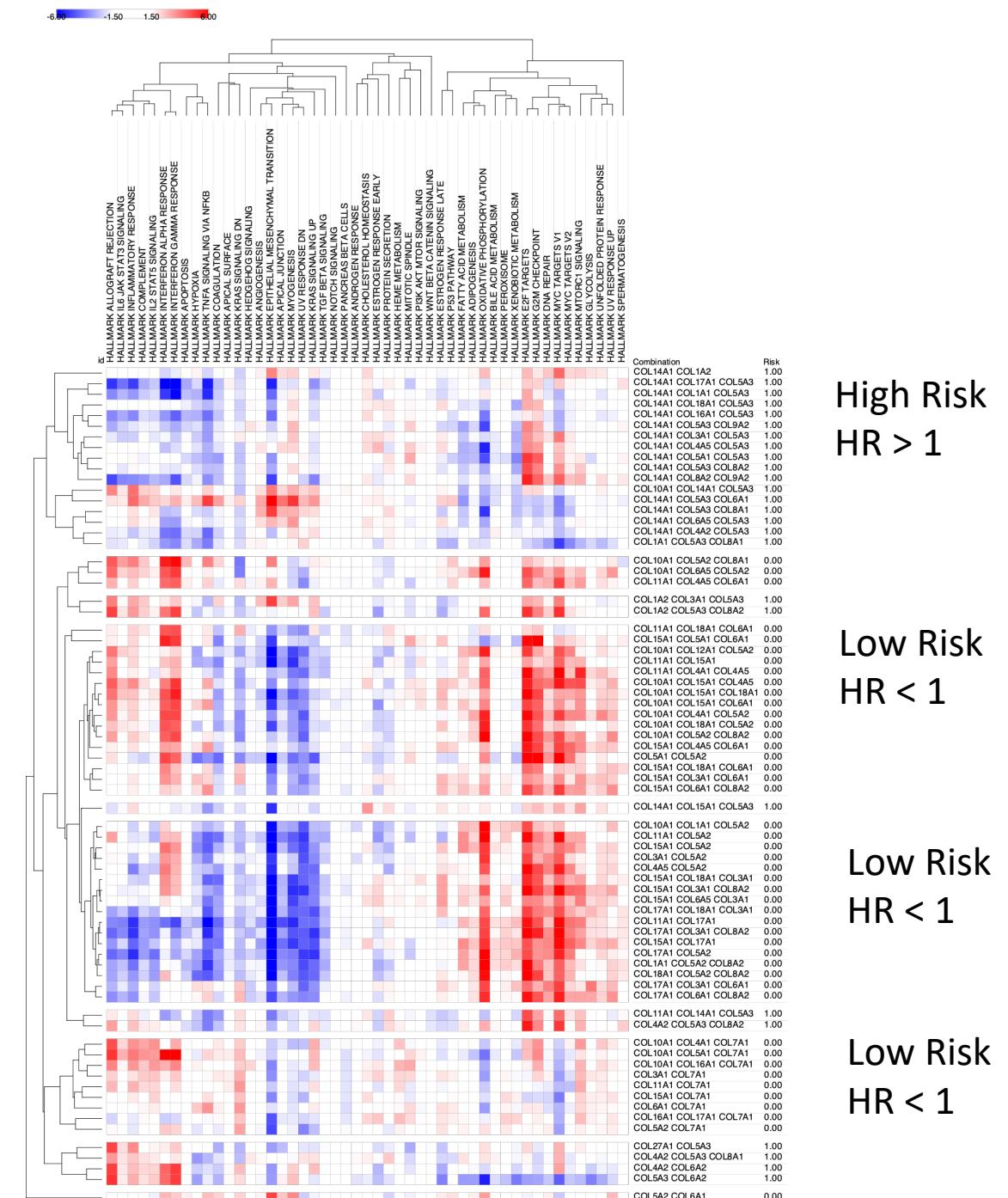
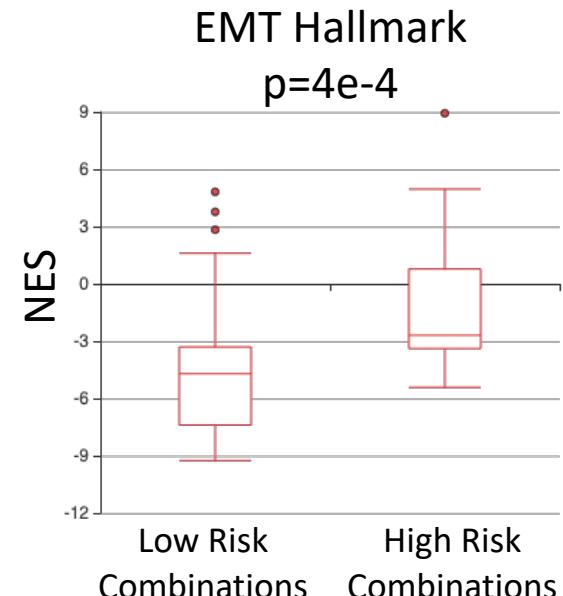


Figure S8C

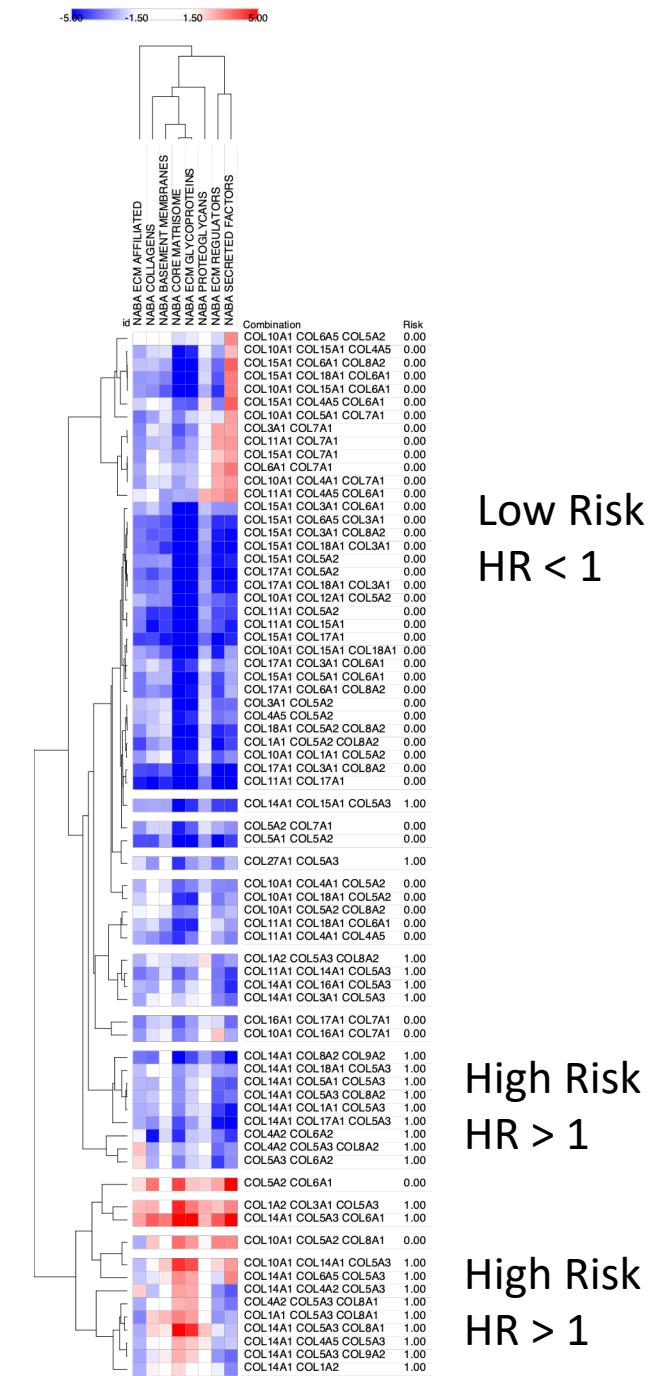
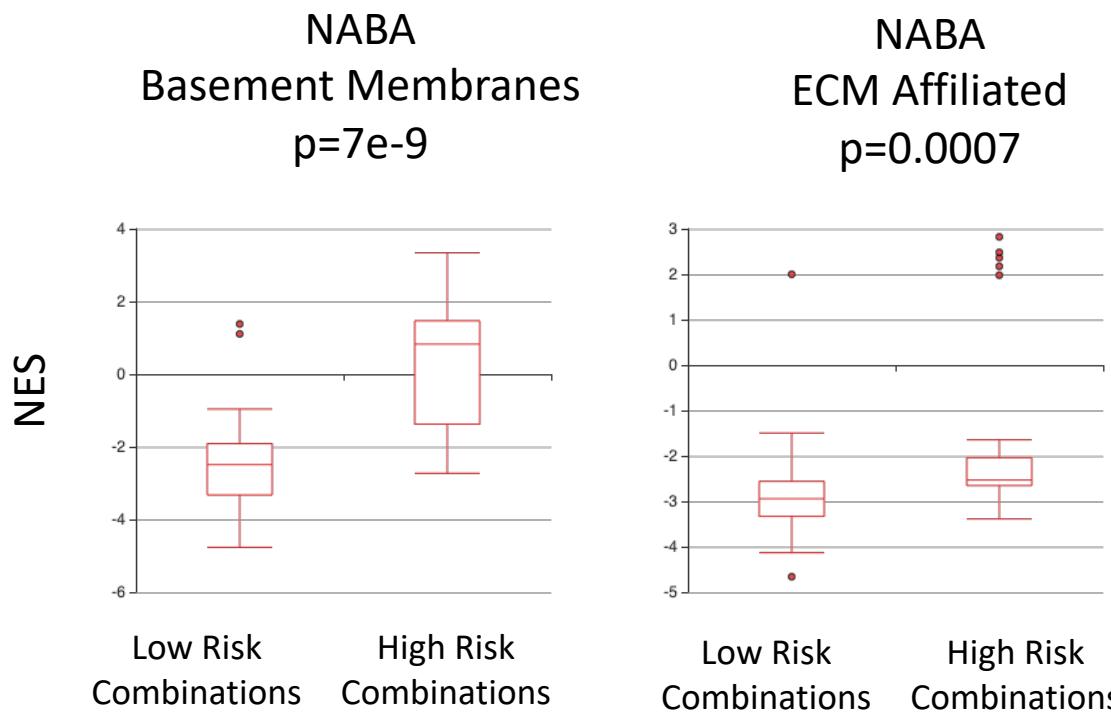


Figure S8C

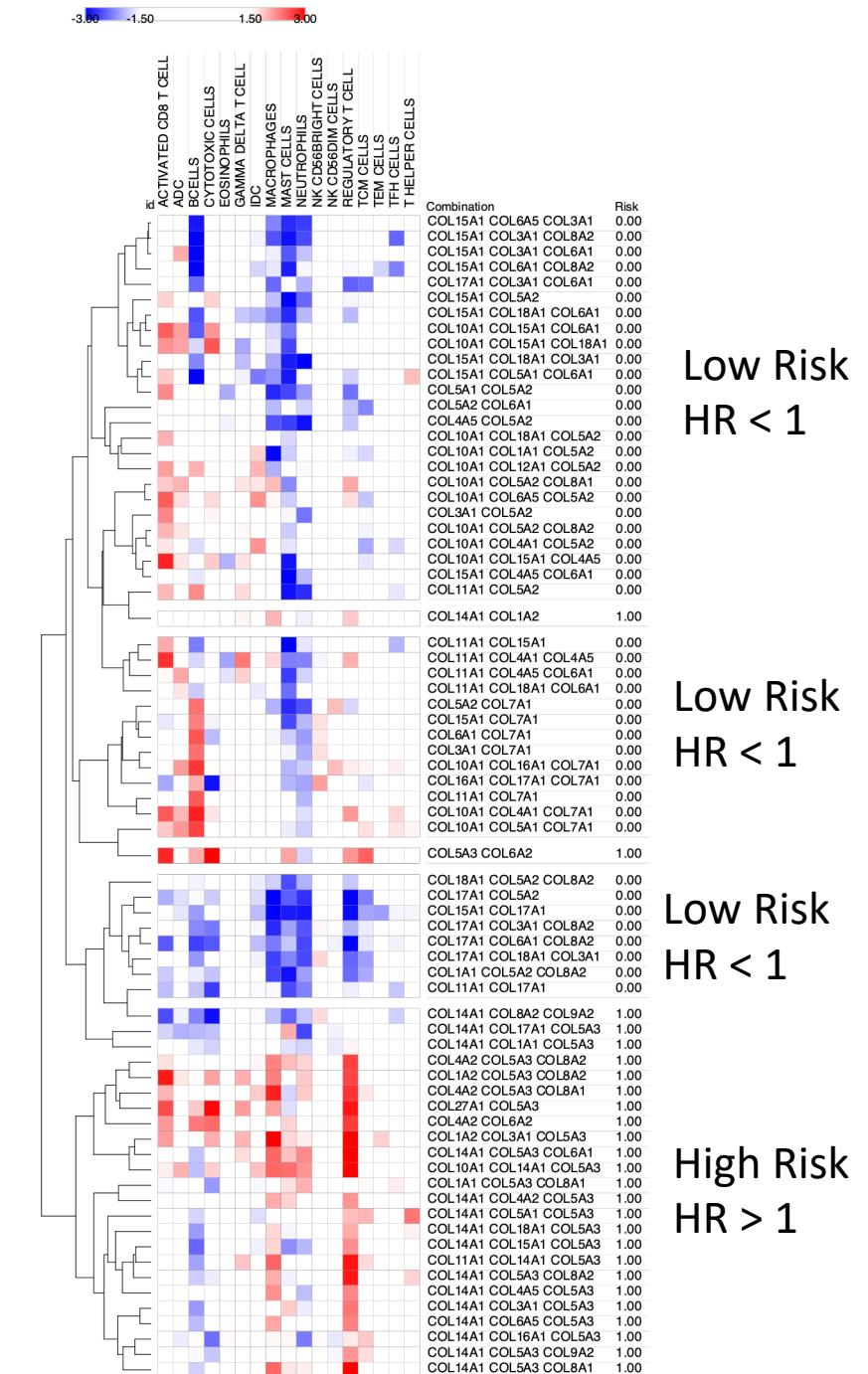
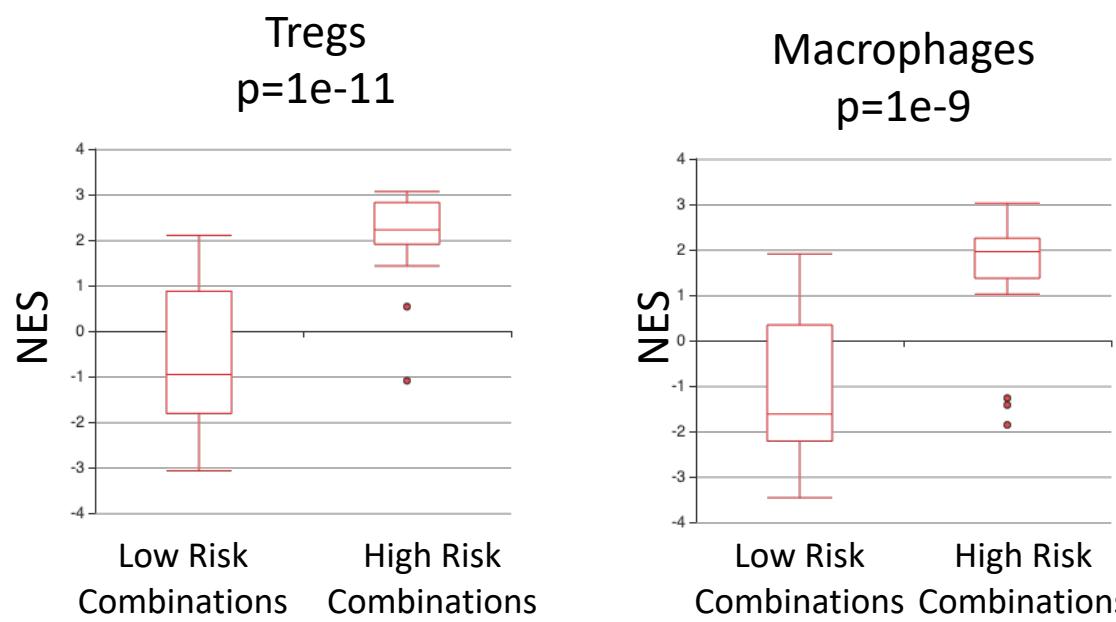
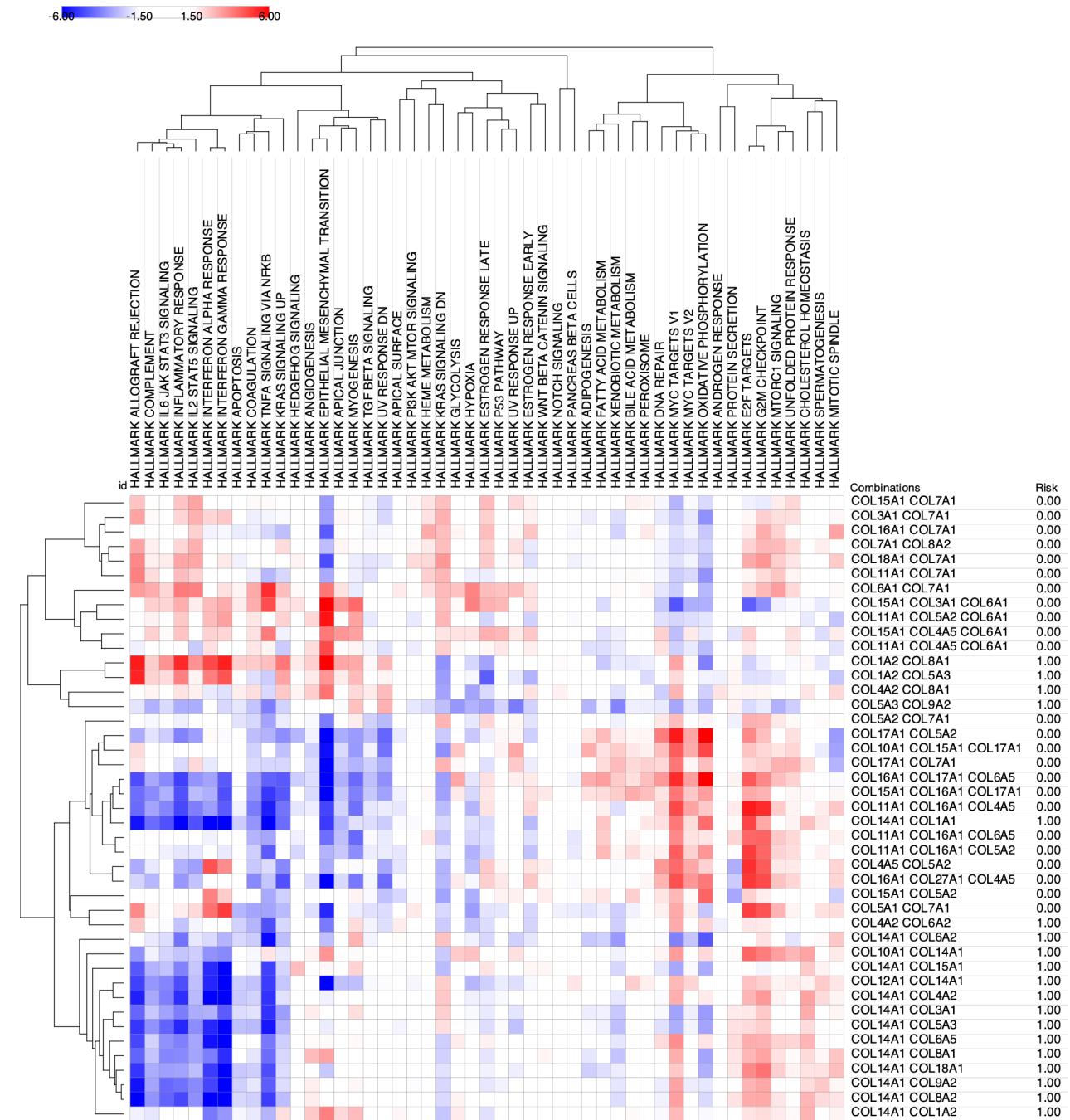


Figure S9A



Low Risk
HR < 1

Low Risk
HR < 1

High Risk
HR > 1

Figure S9B

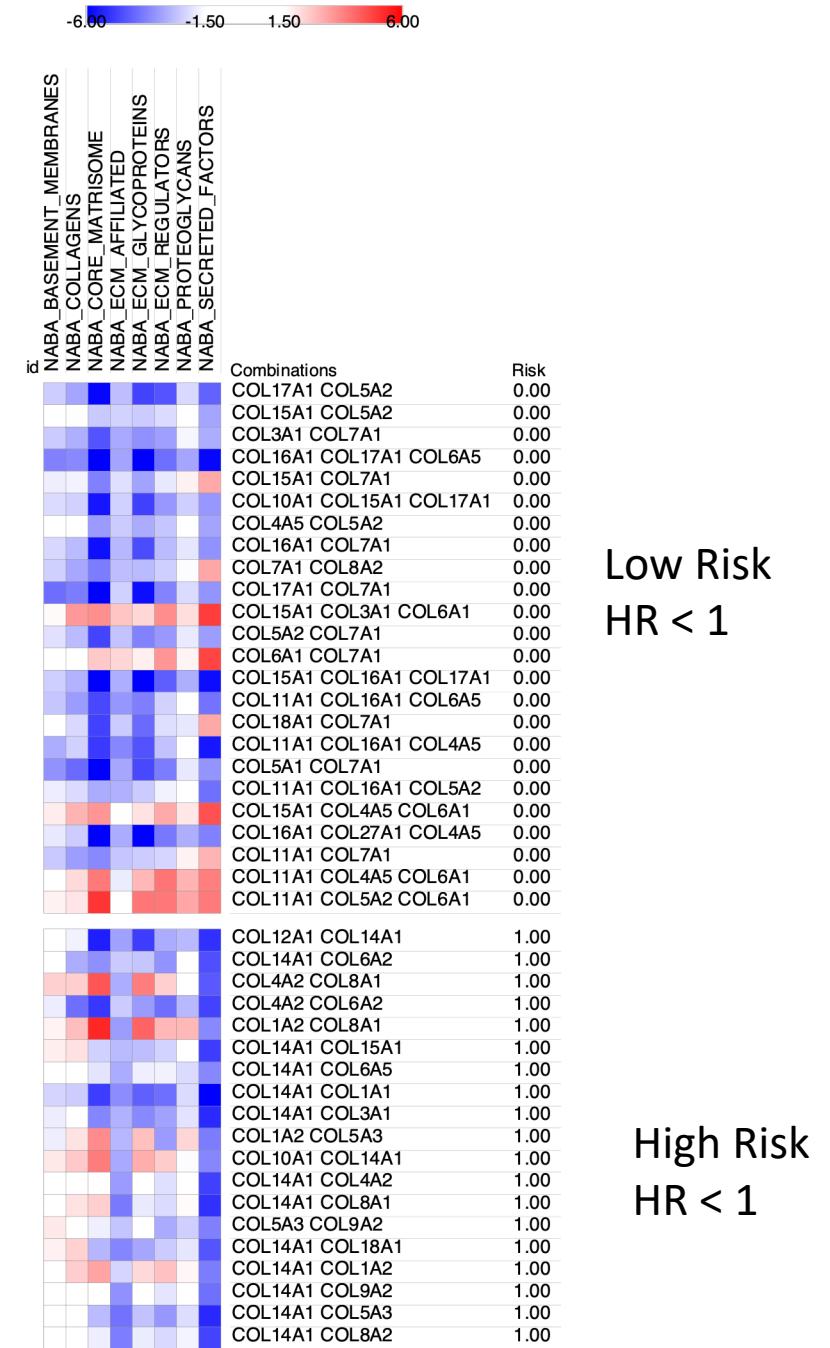
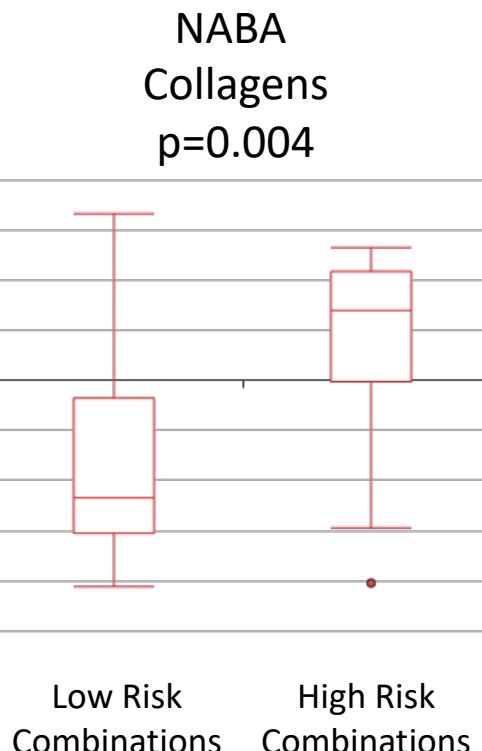
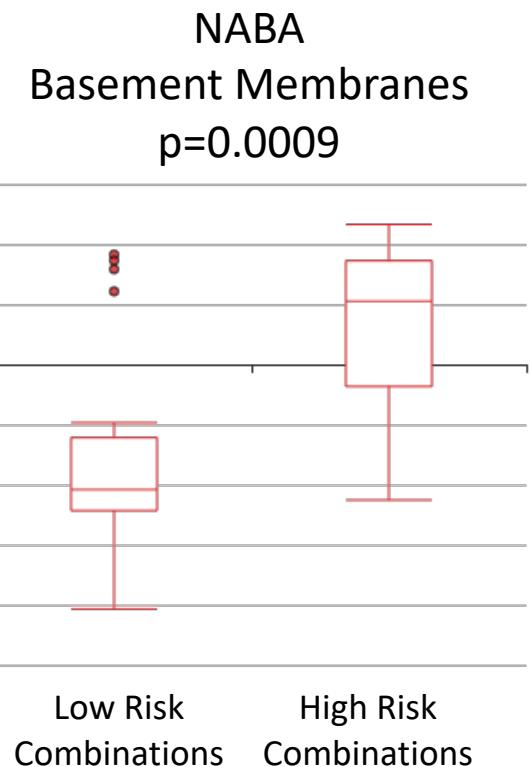


Figure S9C

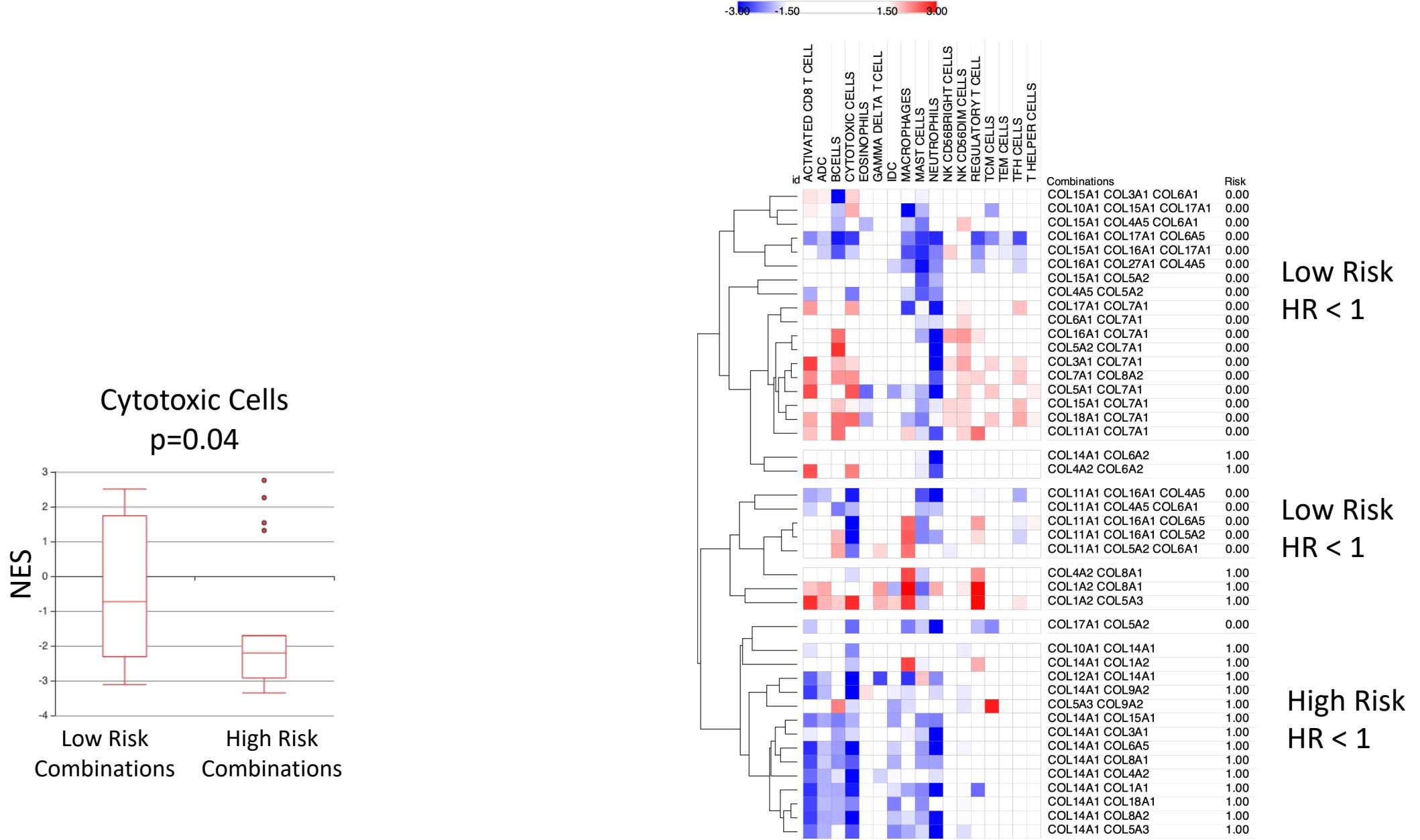


Figure S10A

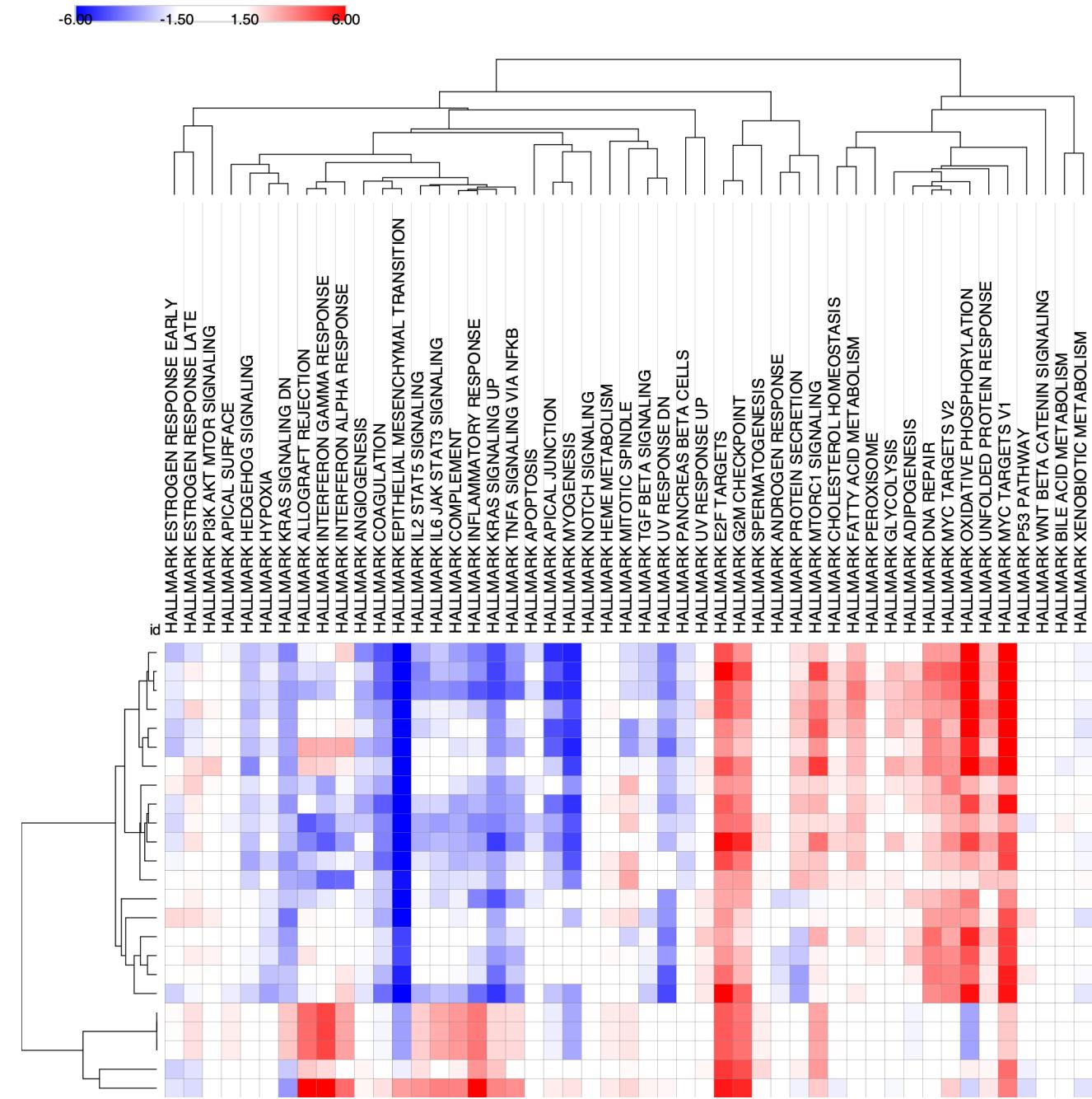
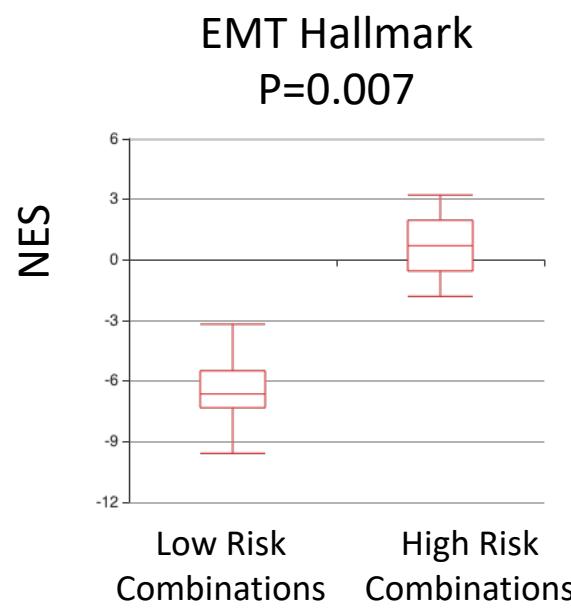


Figure S10B

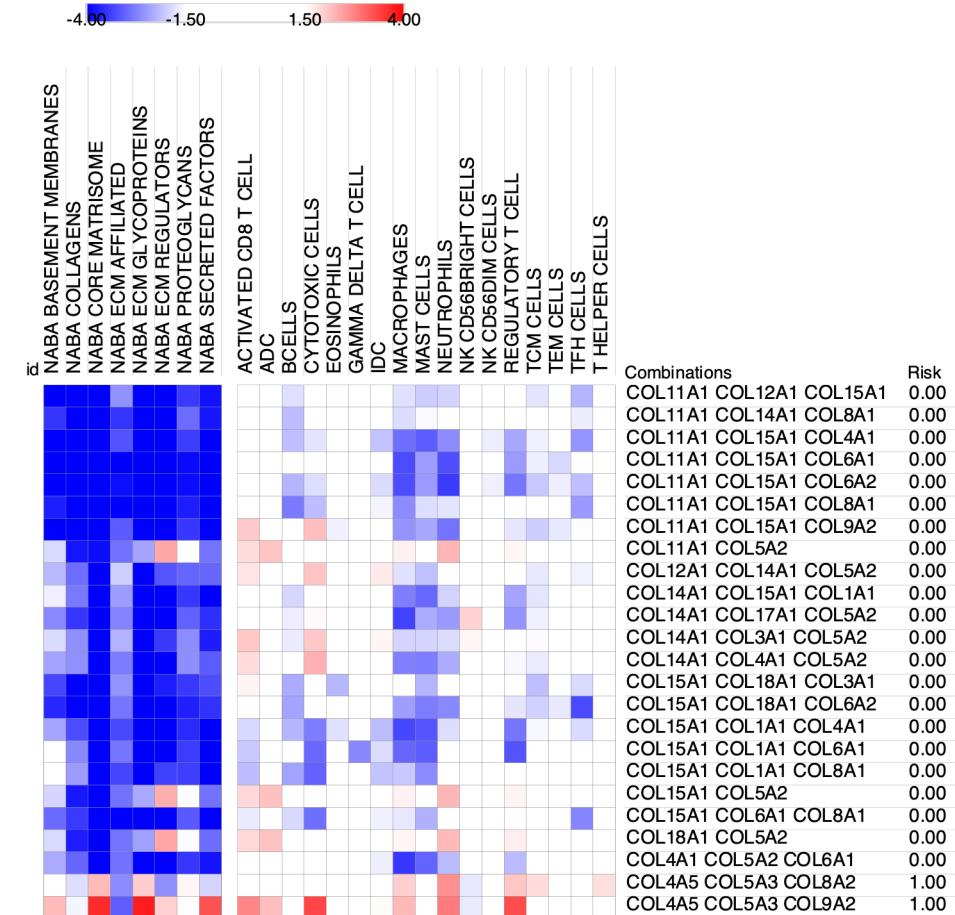
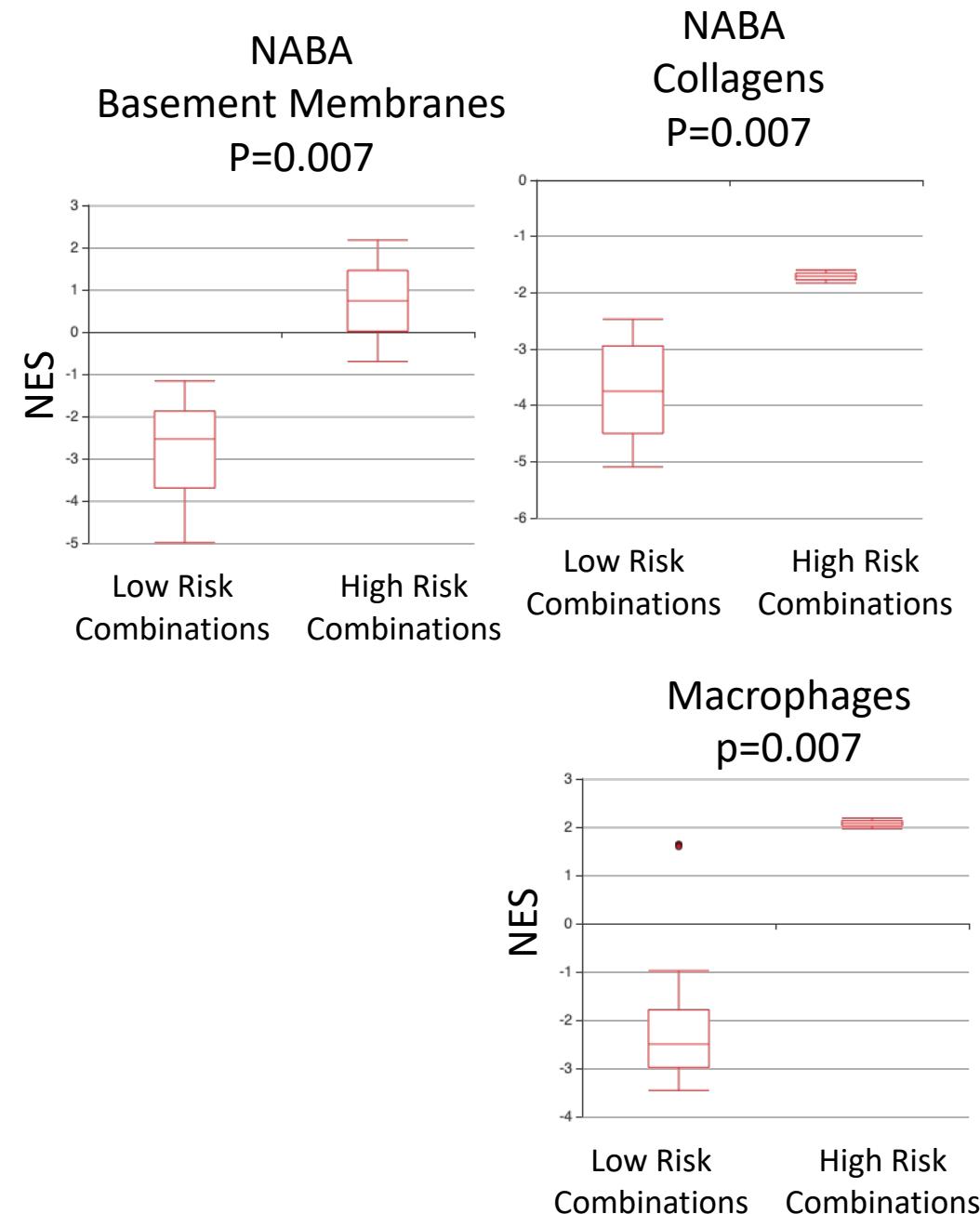
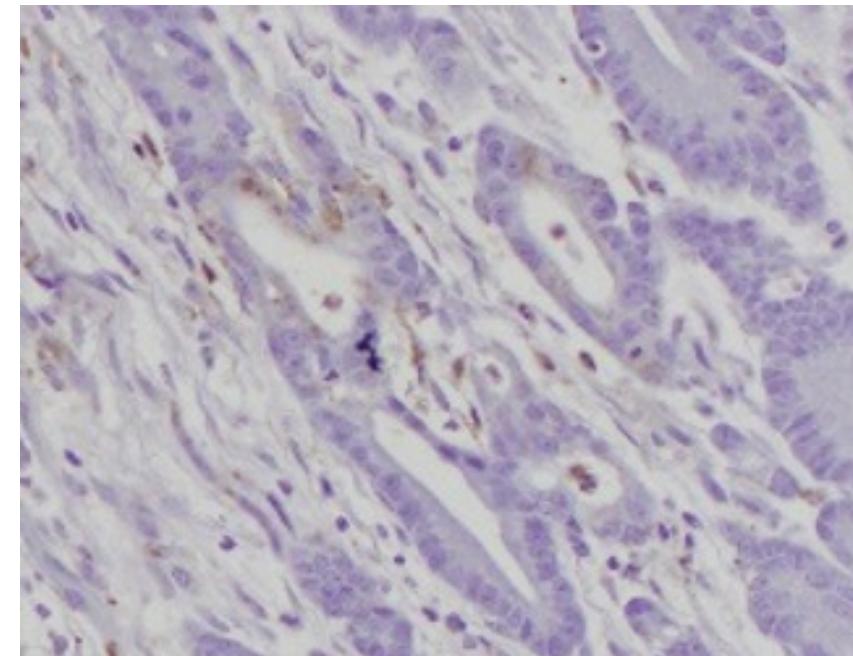


Figure S11A

A.



B.

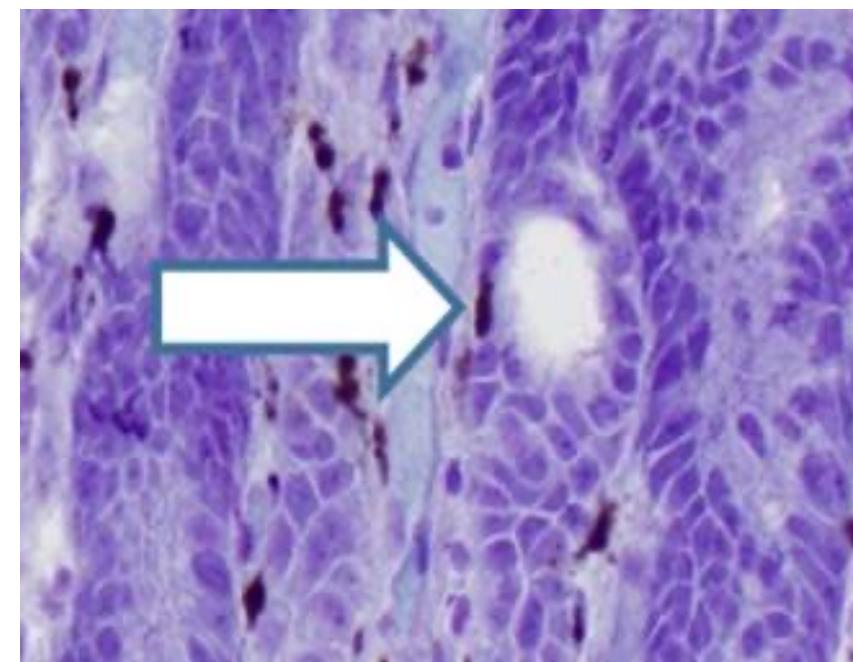
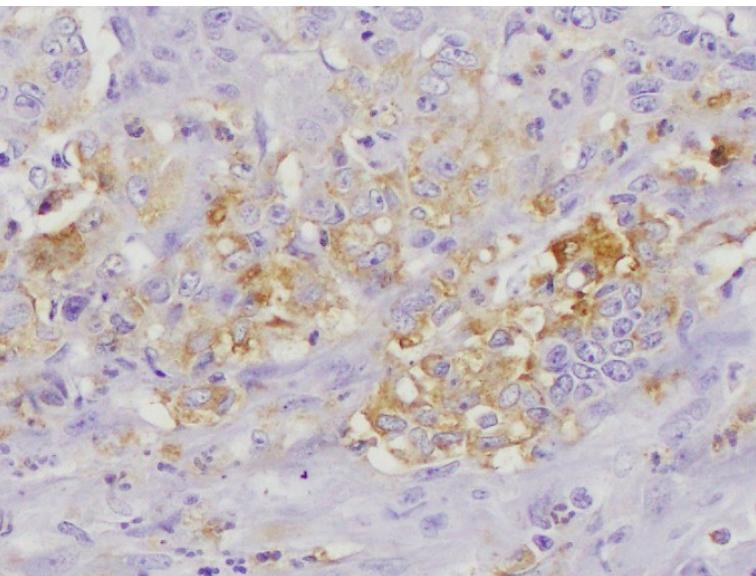
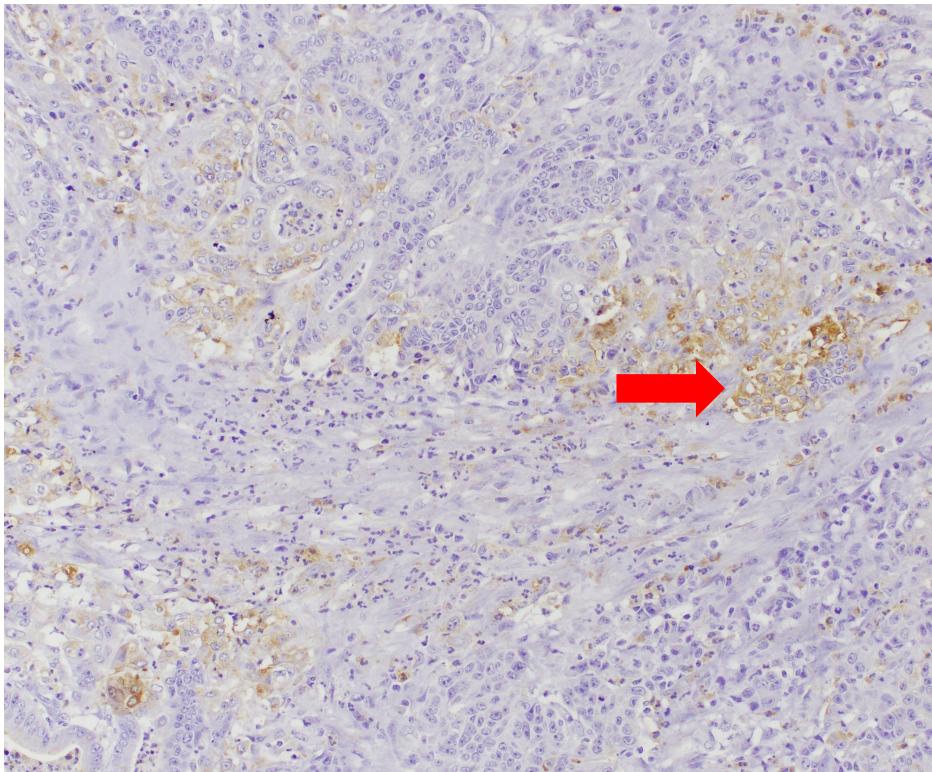


Figure S1B

COL7A1 Epithelium Expression



COL7A1 Stroma Expression

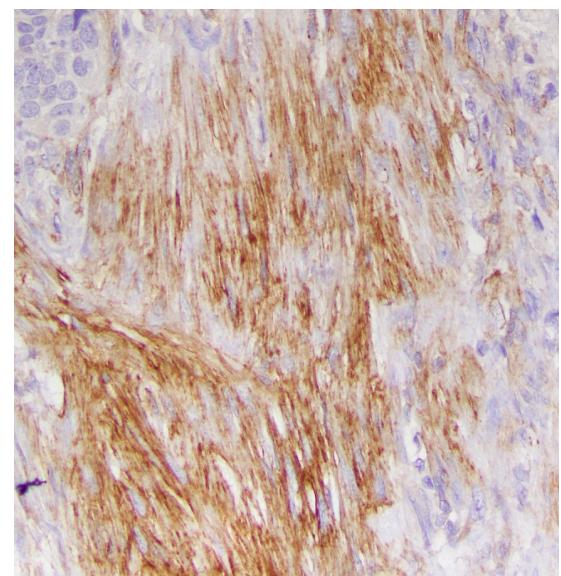
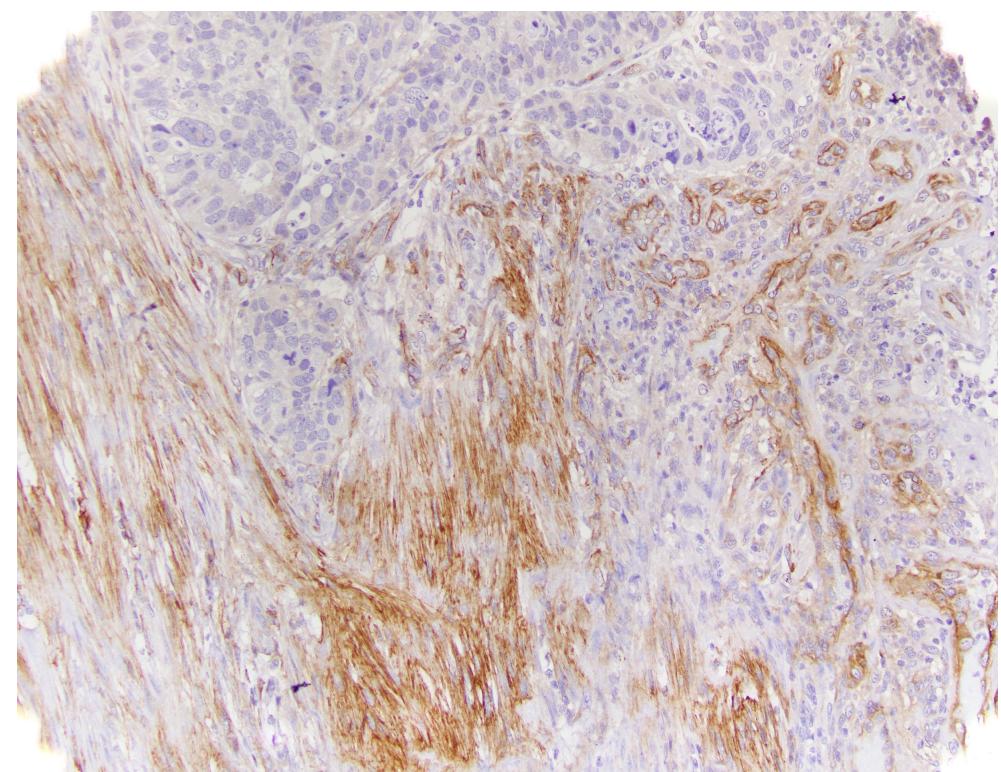


Figure S11C

COL7 expression in normal skin

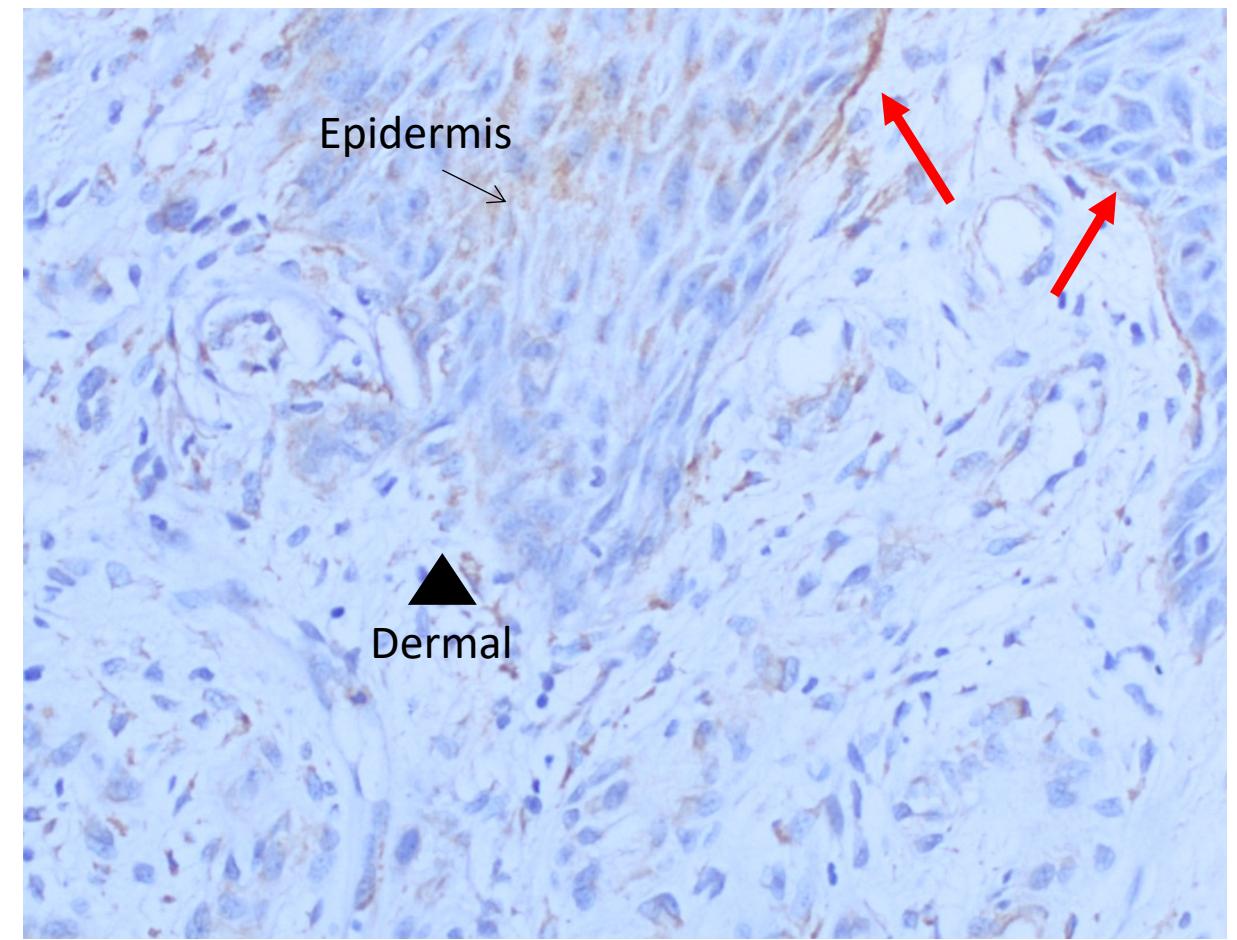


Figure S12A

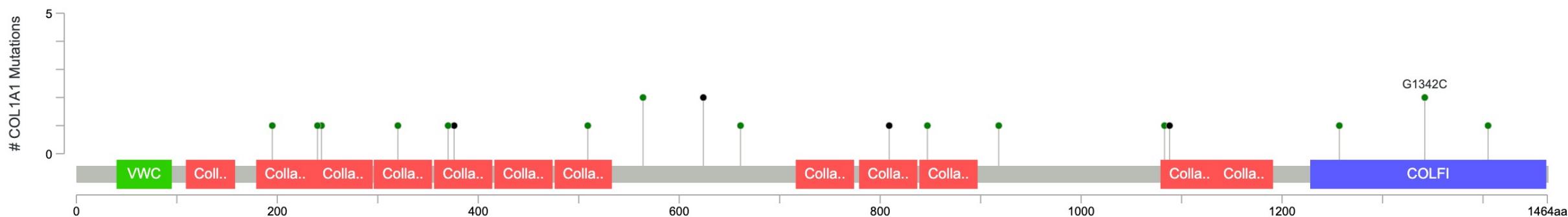
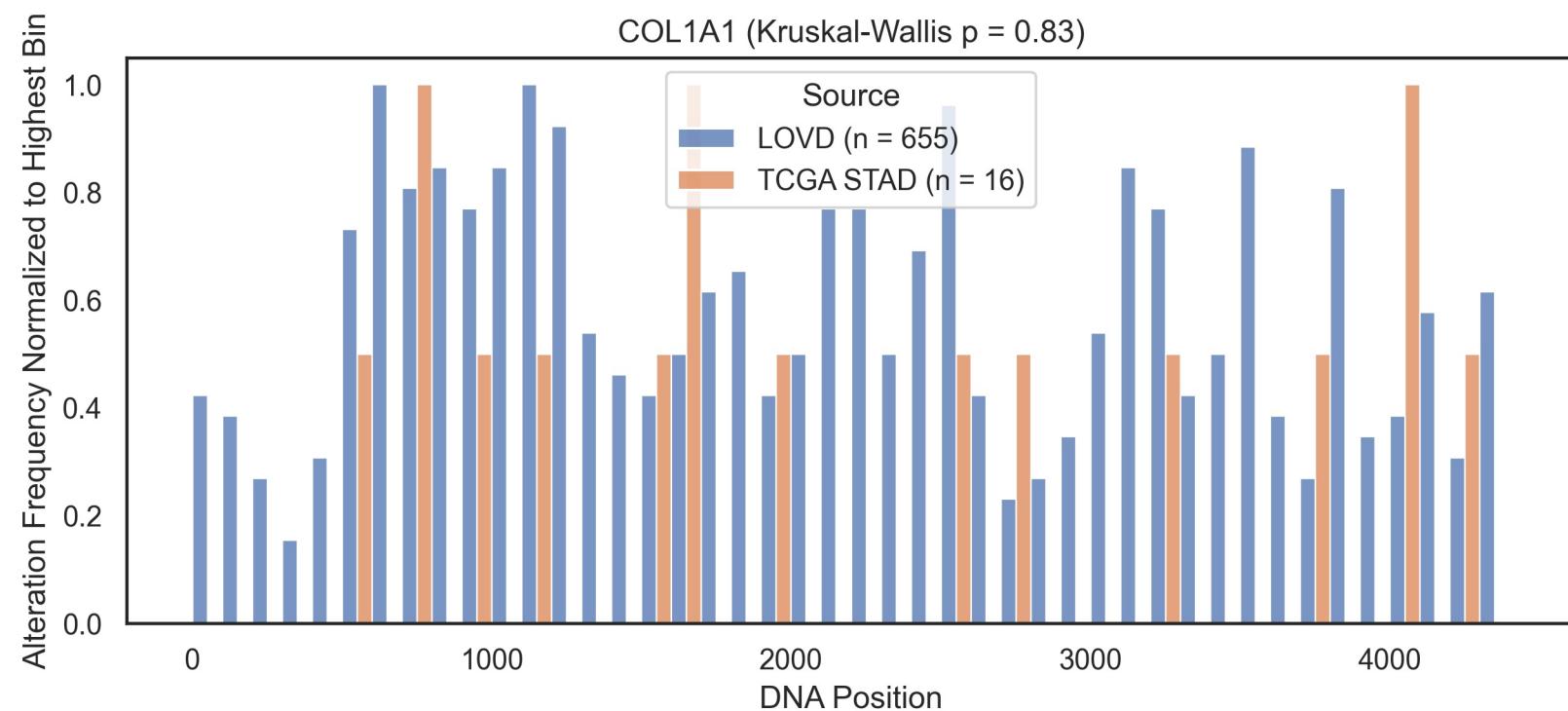


Figure S12A

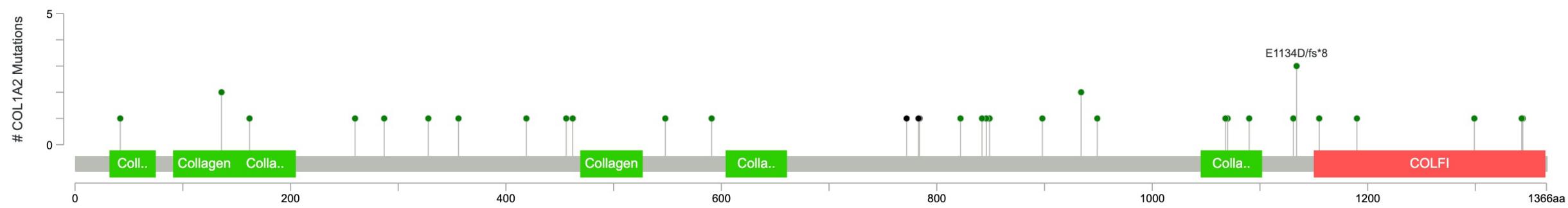
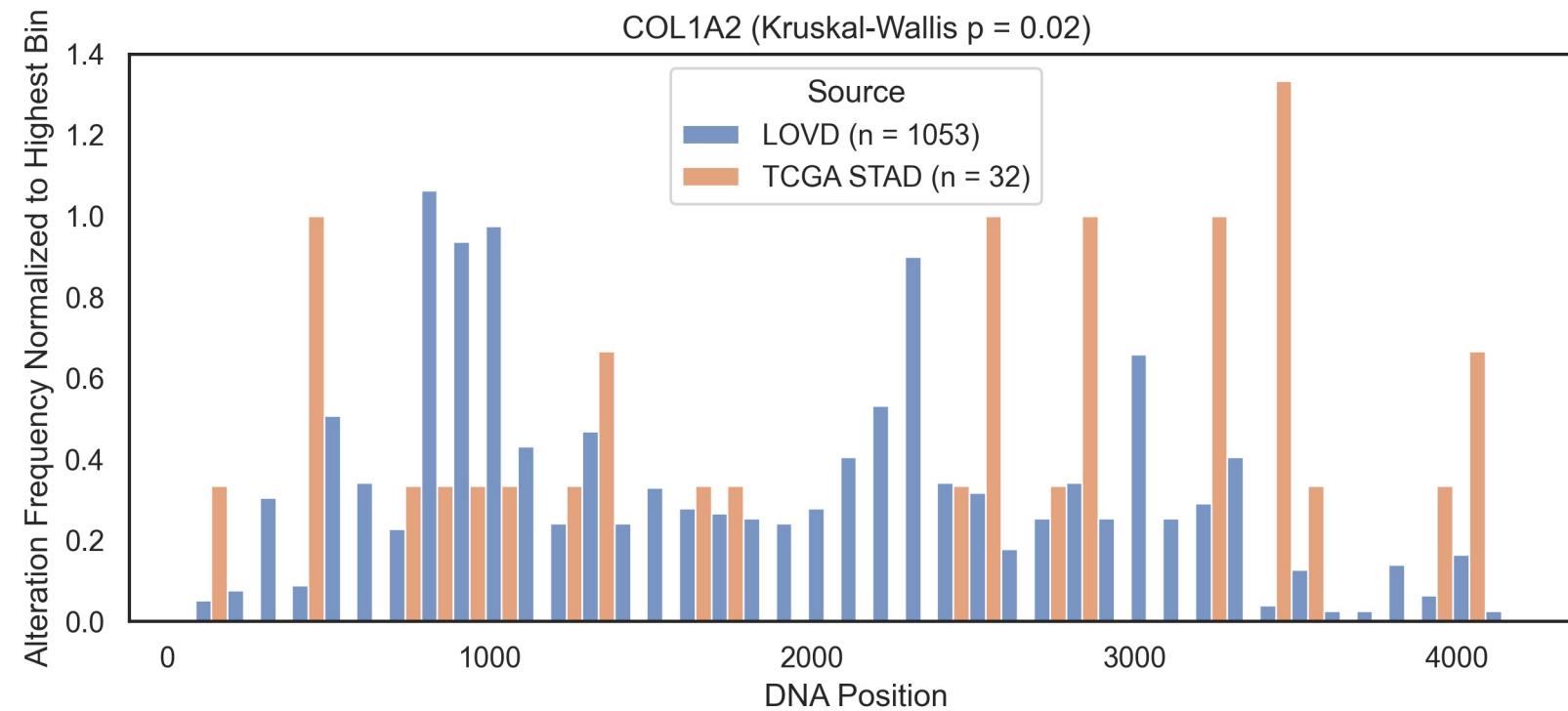


Figure S12B

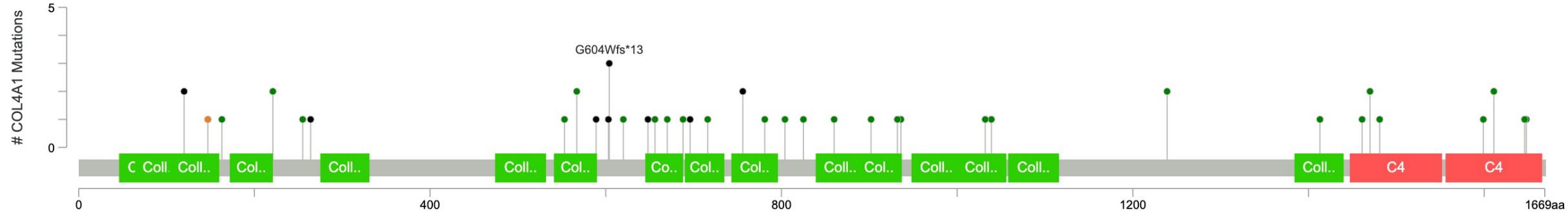
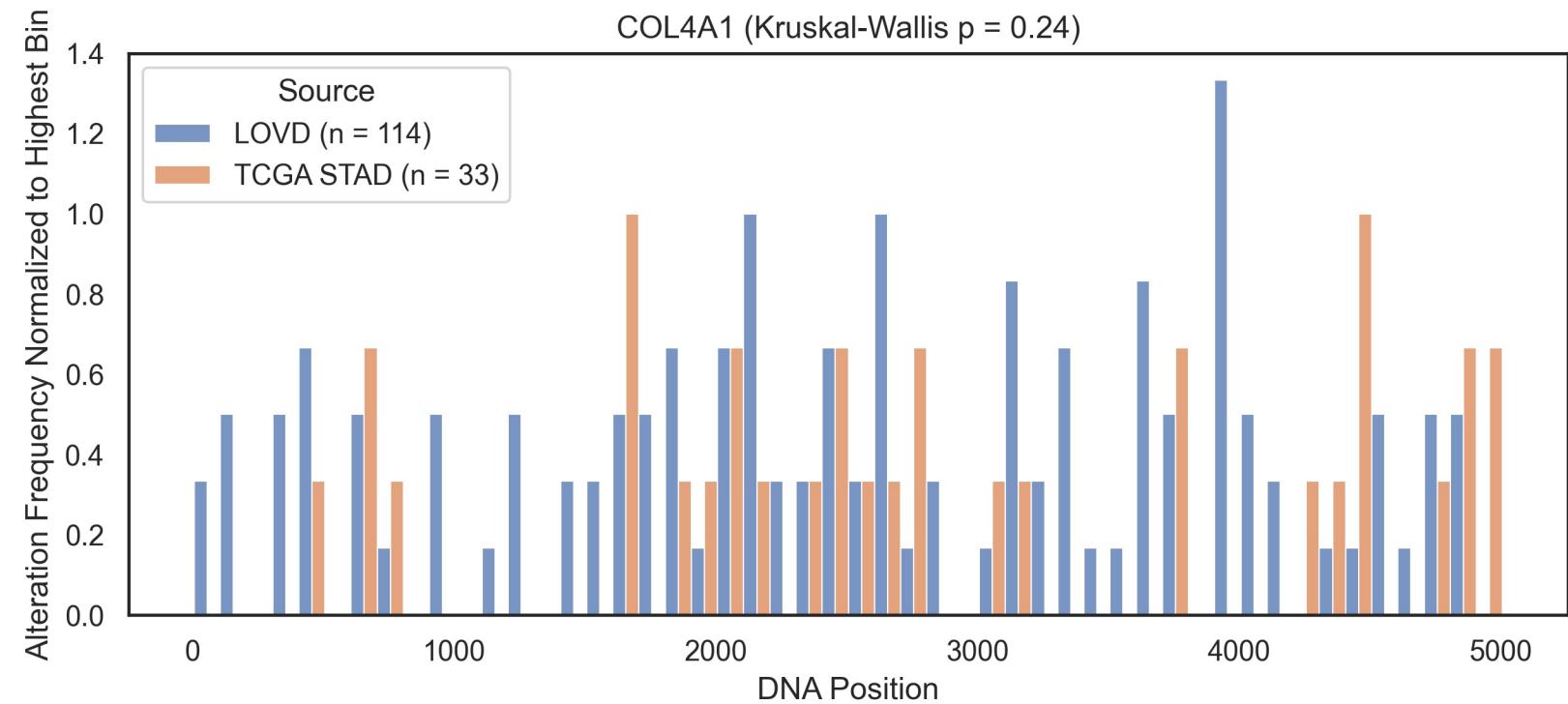


Figure S12B

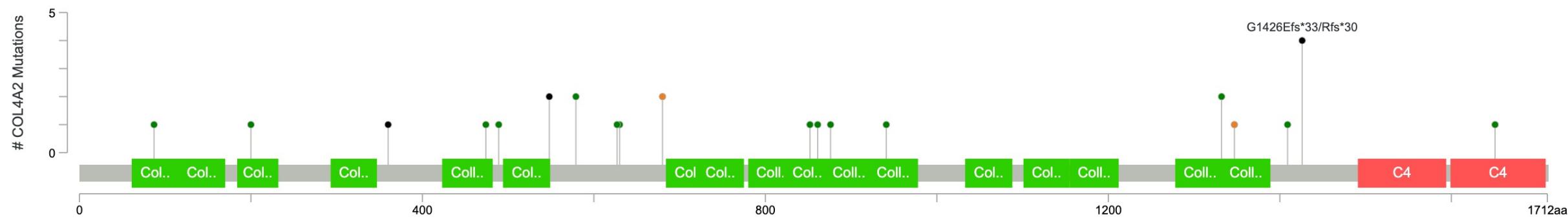
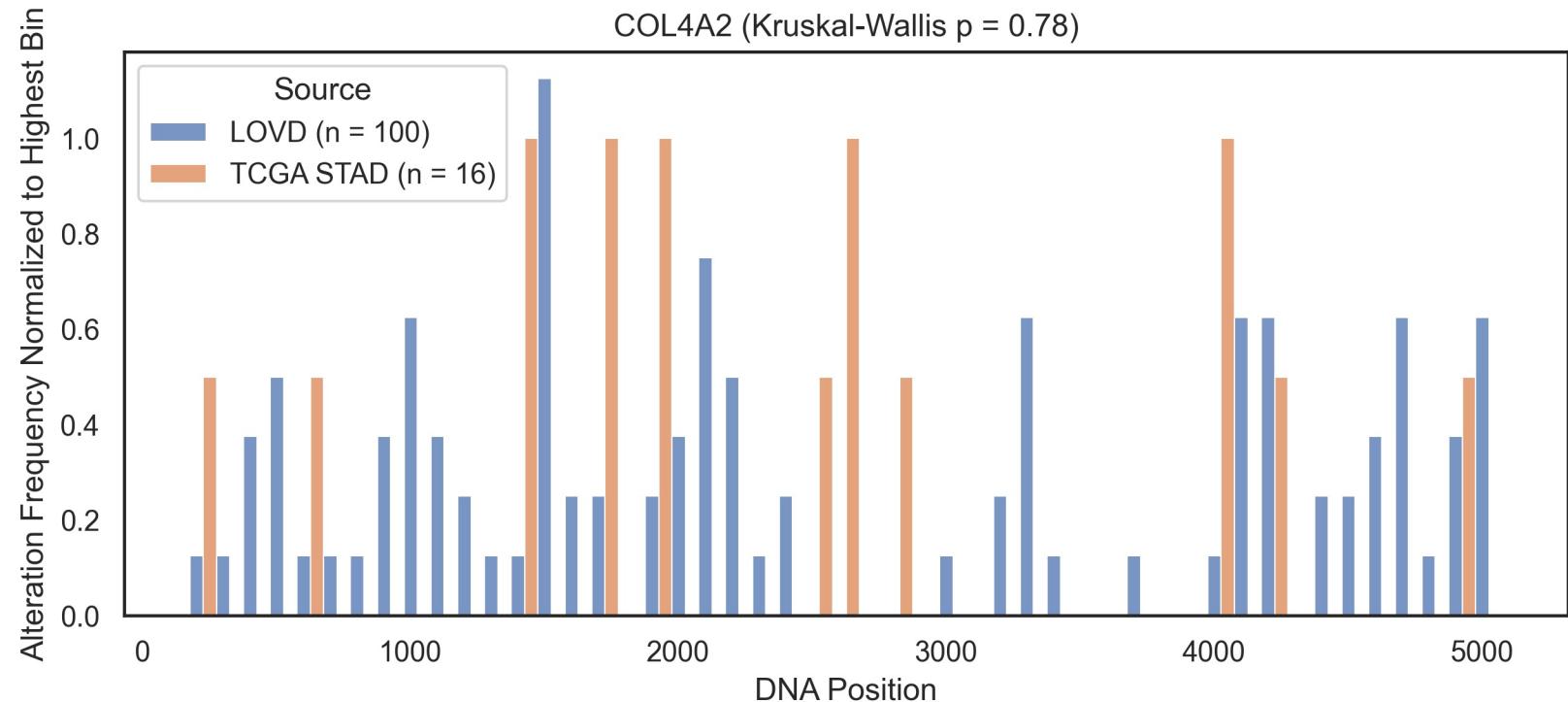


Figure S12C

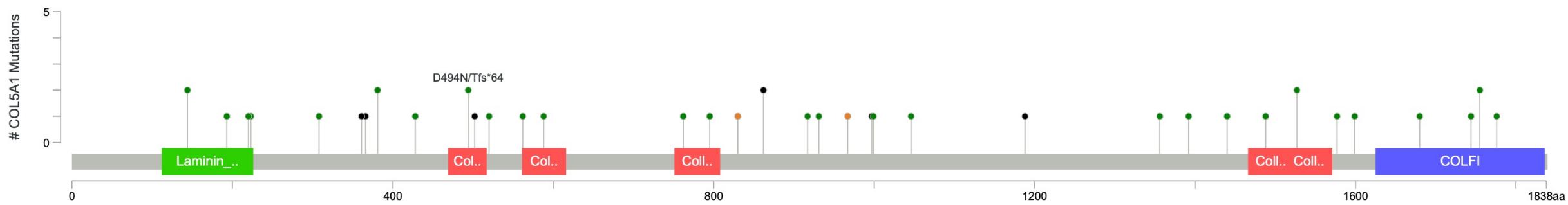
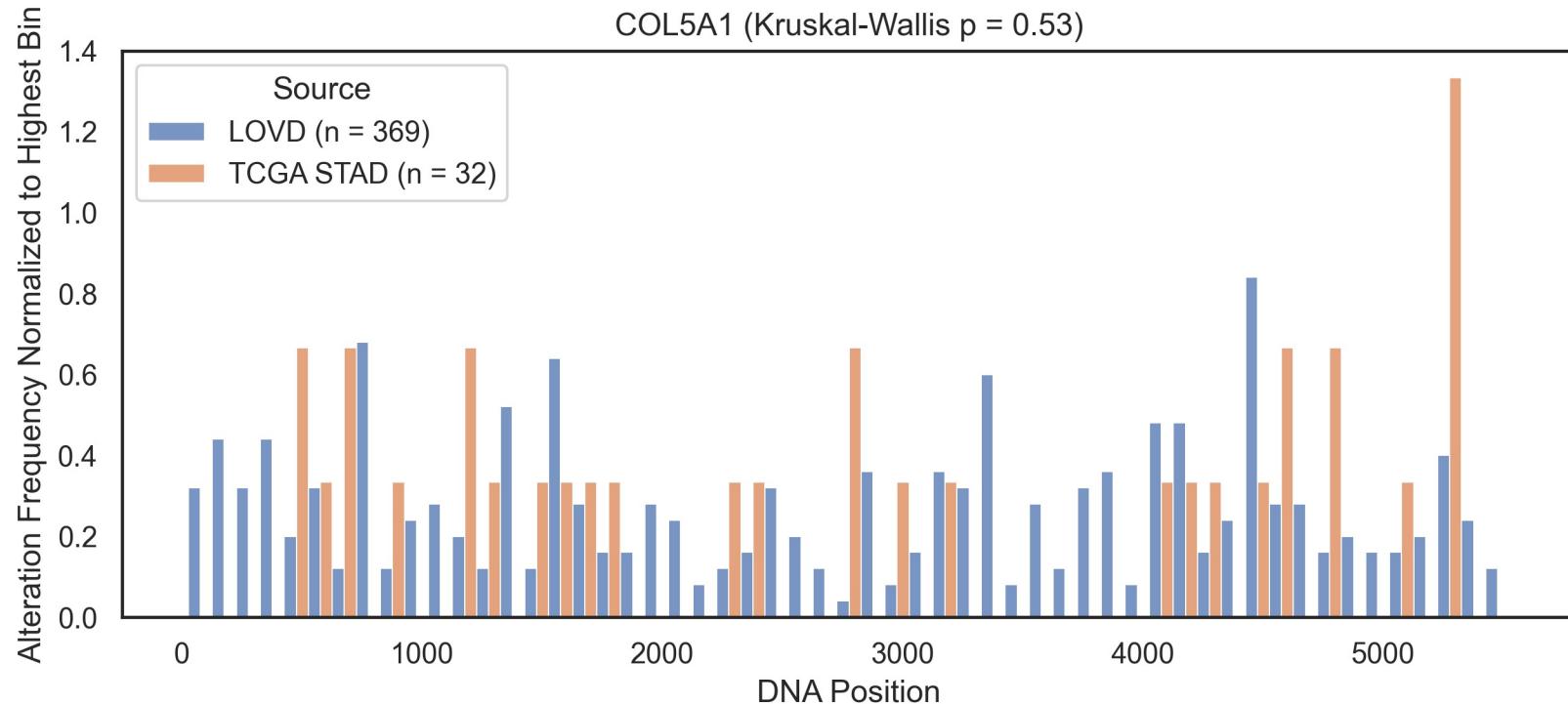


Figure S12C

