









Supplementary figure S1



Reverse Forward Reverse Forward CAC g g Å _____ _____ ĉ 966N C q 966T Y640F gDNA cDNA

С D502Y/K658Y S⁷⁰¹del STAT3β D⁵⁰² K⁶⁵⁸ 465 721 585 688 130 320 N-ter α1 α3 α4 DNA binding Linke SH2 <u>α2</u> TAC **STAT3**β D⁵⁰² K⁶⁵⁸ 688 722 465 130 320 585 N-ter DNA binding TAD α1 α2 α3 Linker SH2 α4 S⁷⁰¹del D⁵⁰² K⁶⁵⁸ 130 585 320 465 68 N-ter α1 α3 DNA binding Linke TAD α2 α4 SH2

D⁵⁰² K⁶⁵⁸ 688 770 130 320 465 585 N-ter α1 α3 α4 DNA binding TAD α2 linke

769

Supplementary figure S2



Supplementary figure S3

