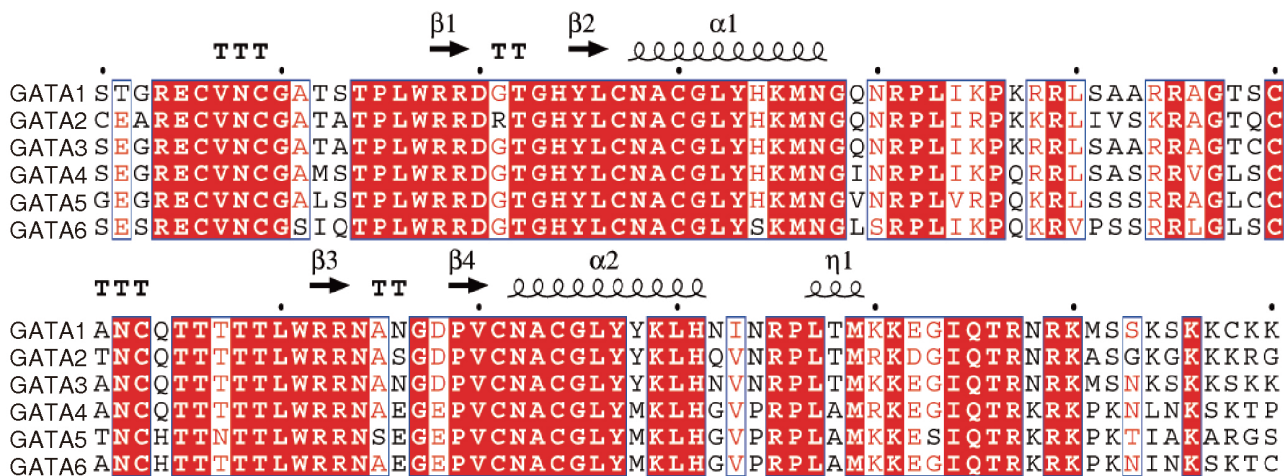


**A****B**

GATA1-WT	PLPPCEAREC VNCGATATPLWRRDRDTGHYLCNACGLYHKMNGQNRPLIRPKRRLIVSKRAGTQCTNCQTTTTLWRRNASGDPVCNACGLY
GATA1-N-Mut	PLPPCEAREC VNCGATATPLWARDRTGHYLCNACGLYHKMNGQNRPLIRPKRRLIVSKRAGTQCTNCQTTTTLWRRNASGDPVCNACGLY
GATA1-C-Mut	PLPPCEAREC VNCGATATPLWRRDRDTGHYLCNACGLYHKMNGQNRPLIRPKRRLIVSKRAGTQCTNCQTTTTLWRRNASGDPVCNACGLY
GATA1-D-Mut	PLPPCEAREC VNCGATATPLWARDRTGHYLCNACGLYHKMNGQNRPLIRPKRRLIVSKRAGTQCTNCQTTTTLWRRNASGDPVCNACGLY
GATA2-WT	SEGREC VNCGATATPLWRRDGTGHYLCNACGLYHKMNGQNRPLIKPKRRLSAARRAGTCCANCQTTTTLWRRNANGDPVCNACGLYKHL
GATA2-N-Mut	SEGREC VNCGATATPLWARDGTGHYLCNACGLYHKMNGQNRPLIKPKRRLSAARRAGTCCANCQTTTTLWRRNANGDPVCNACGLYKHL
GATA2-C-Mut	SEGREC VNCGATATPLWRRDGTGHYLCNACGLYHKMNGQNRPLIKPKRRLSAARRAGTCCANCQTTTTLWRRNANGDPVCNACGLYKHL
GATA2-D-Mut	SEGREC VNCGATATPLWARDGTGHYLCNACGLYHKMNGQNRPLIKPKRRLSAARRAGTCCANCQTTTTLWRRNANGDPVCNACGLYKHL
GATA3-WT	3REC VNCGATSTPLWRRDGTGHYLCNACGLYHKMNGQNRPLIKPKRRLSAARRAGTSCANCQTTTTLWRRNANGDPVCNACGLYKHLN
GATA3-N-Mut	GREC VNCGATSTPLWARDGTGHYLCNACGLYHKMNGQNRPLIKPKRRLSAARRAGTSCANCQTTTTLWRRNANGDPVCNACGLYKHLN
GATA3-C-Mut	GREC VNCGATSTPLWRRDGTGHYLCNACGLYHKMNGQNRPLIKPKRRLSAARRAGTSCANCQTTTTLWRRNANGDPVCNACGLYKHLN
GATA3-D-Mut	GREC VNCGATSTPLWARDGTGHYLCNACGLYHKMNGQNRPLIKPKRRLSAARRAGTSCANCQTTTTLWRRNANGDPVCNACGLYKHLN
GATA4-WT	FSEGREC VNCGAMSTPLWRRDGTGHYLCNACGLYHKMNGINRPLIKPQRRLSASRRVGLSCANCQTTTTLWRRNAEGEPVCNACGLYMK
GATA4-N-Mut	FSEGREC VNCGAMSTPLWARDGTGHYLCNACGLYHKMNGINRPLIKPQRRLSASRRVGLSCANCQTTTTLWRRNAEGEPVCNACGLYMK
GATA4-C-Mut	FSEGREC VNCGAMSTPLWRRDGTGHYLCNACGLYHKMNGINRPLIKPQRRLSASRRVGLSCANCQTTTTLWRRNAEGEPVCNACGLYMK
GATA4-D-Mut	FSEGREC VNCGAMSTPLWARDGTGHYLCNACGLYHKMNGINRPLIKPQRRLSASRRVGLSCANCQTTTTLWRRNAEGEPVCNACGLYMK
GATA5-WT	EGREC VNCGALSTPLWRRDGTGHYLCNACGLYHKMNGVNRPLVRPQKRLSSRRAGLCCCTNCHTTNTTLWRRNSEGEPVCNACGLYMKL
GATA5-N-Mut	EGREC VNCGALSTPLWARDGTGHYLCNACGLYHKMNGVNRPLVRPQKRLSSRRAGLCCCTNCHTTNTTLWRRNSEGEPVCNACGLYMKL
GATA5-C-Mut	EGREC VNCGALSTPLWRRDGTGHYLCNACGLYHKMNGVNRPLVRPQKRLSSRRAGLCCCTNCHTTNTTLWRRNSEGEPVCNACGLYMKL
GATA5-D-Mut	EGREC VNCGALSTPLWARDGTGHYLCNACGLYHKMNGVNRPLVRPQKRLSSRRAGLCCCTNCHTTNTTLWRRNSEGEPVCNACGLYMKL
GATA6-WT	REC VNCGSIQTPLWRRDGTGHYLCNACGLYSKMNGLSRPLIKPQKRVPSRRRLGLSCANCHTTNTTLWRRNAEGEPVCNACGLYMKLHGV
GATA6-N-Mut	REC VNCGSIQTPLWARDGTGHYLCNACGLYSKMNGLSRPLIKPQKRVPSRRRLGLSCANCHTTNTTLWRRNAEGEPVCNACGLYMKLHGV
GATA6-C-Mut	REC VNCGSIQTPLWRRDGTGHYLCNACGLYSKMNGLSRPLIKPQKRVPSRRRLGLSCANCHTTNTTLWRRNAEGEPVCNACGLYMKLHGV
GATA6-D-Mut	REC VNCGSIQTPLWARDGTGHYLCNACGLYSKMNGLSRPLIKPQKRVPSRRRLGLSCANCHTTNTTLWRRNAEGEPVCNACGLYMKLHGV

**Supplementary Information, Figure S4 Strategies for mutation of GATA family members.** (A) A schematic diagram illustrating two conserved zinc-finger domains of GATA family (red). The secondary structure of GATA3 is depicted in this figure. (B) Mutation strategy of GATA family members. A diagram depicting detailed protein sequences of the conserved zinc-finger domains of GATA family members. Mutated sites are highlighted in green.