

Supplementary materials:

Prediction of GPI-modification

To predict the effect of CD177 c.1291G>A polymorphism, the protein sequence of both CD177 variant (wildtype and mutant) were analysed in big-PI predictor GPI modification site and GPI-anchor possibilities for both proteins were scored.

MSAVLLLALL GFILPLPGVQ ALLCQFGTVQ HWWKVSDLPR
QWTPKNTSCD SGLGCQDTLM LIESGPQVSL VLSKGCTEAK
DQEPRVTEHR MGPGLSLISY TFVCRQEDFC>NNLVNSLPLW
APQPPADPGS LRCPVCLSME GCLEGTTEEI CPKGTTHCYD
GLLRLRGGGI FSNLRVQGCM PQPVCNLLNG TQEIGPVGMT
ENCDMKDFLT CHRGTTIMTH GNLAQEPTDW TTSNTEMCEV
GQVCQETLLL LDVGLTSTLV GTKGCSTVGA QNSQKTTIHS
APPGVLVASY THFCSSDLN SASSSSVLLN SLPPQAAPVP
GDRQCPTCVQ PLGTCSSGSP RMTCPRGATH CYDGYIHLG
GGLSTKMSIQ GCVAQPSSFL LNHTRQIGIF SAREKRDVQP
PASQHEGGGA EGLESITWGV GLALAPALWW **G**VVCPSC

Total Score for Potential GPI.....: 5.50

MSAVLLLALL GFILPLPGVQ ALLCQFGTVQ HWWKVSDLPR
QWTPKNTSCD SGLGCQDTLM LIESGPQVSL VLSKGCTEAK
DQEPRVTEHRMGPGLSLISYTFVCRQEDFC>NNLVNSLPLWAPQ
PPADPGSLRCPVCLSMEGCLEGTTEEICPKGTTHCYDGLRLRG
GGI FSNLRVQGCMPQPVCNLLNGTQEIGPVGMTENCDMKDFLT
CHRGTTIMTH GNLAQEPTDW TTSNTEMCEVGQVCQETLLL
LDVGLTSTLV GTKGCSTVGA QNSQKTTIHS APPGVLVASY
THFCSSDLN SASSSSVLLN SLPPQAAPVP GDRQCPTCVQ
PLGTCSSGSP RMTCPRGATH CYDGYIHLGGGLSTKMSIQ
GCVAQPSSFL LNHTRQIGIF SAREKRDVQP PASQHEGGGA
EGLESITWGVGLALAPALWW **R**VVCPSC

Total Score for Potential GPI.....: -6.98

Supplementary Figure S1: Prediction of GPI modification induced by the CD177 c.1291G>A polymorphism (bold letter) by big-PI Predictor GPI Modification Site. The total score for GPI in the wild type CD177 (left) and the mutant variant (right) is calculated by the big-PI Predictor Modification Software.