Supplemental Figure S1

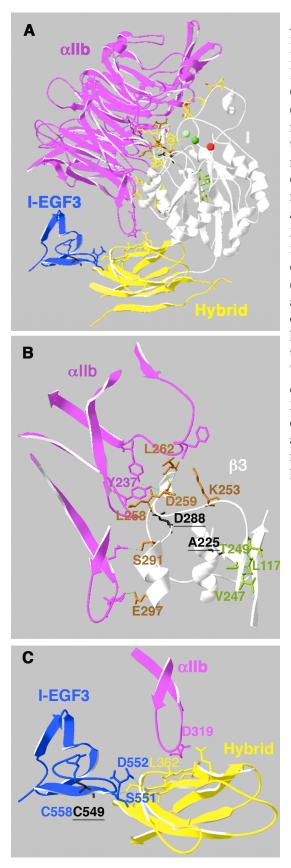


Fig. S1. Mutants defective for expression are at the α/β interface. A. Ribbon structure [from (28)] illustrating the location of the α IIb head (magenta) the β 3 I (white), Hybrid (yellow) and I-EGF3 (blue) domains. SyMBS Ca²⁺ (light green), MIDAS Mg²⁺ (green), and ADMIDAS Ca²⁺ (red) cations are shown in the I domain. Side chains of β residues that are within 3 Å of α are shown (brown) as are those within 3.5 Å (yellow). Side chains of the neighboring α integrin residues are shown in magenta. B. Closer view of the interactions between α and β in the region near D288 and A225 (black underlined; mutated in mys^{G12} and mys^{b47}). For simplicity, most contacts between 3 Å and 3.5 Å [including **R261** known to be key to α/β interface (29)] have been removed and only the side chains of β amino acids within 3 Å of α are shown (brown). **D288** precedes helix α 5 that contains the **S291** and E297 contacts. D288 also hydrogen bonds (green dashed lines) with the 3_{10} helix residue L258 that is hydrogen bonded to aIIb Y237 (magenta). A225 is closest to (within 3.5 Å) L117 (green) that contacts (within 3 Å) V247 and T249 (green) in β 4 that precedes the loop containing the close α/β contact **K253** and leading to the 3_{10} helix. C. Closer view of the loop formed by I-EGF3 cysteines C549 (black underlined; mutated in mys^{XN101}) and C558. Loop residues S551 and D552 contact Hybrid residues and Hybrid L362 in the Hybrid domain is hydrogen bonded to aIIb D319 (magenta).