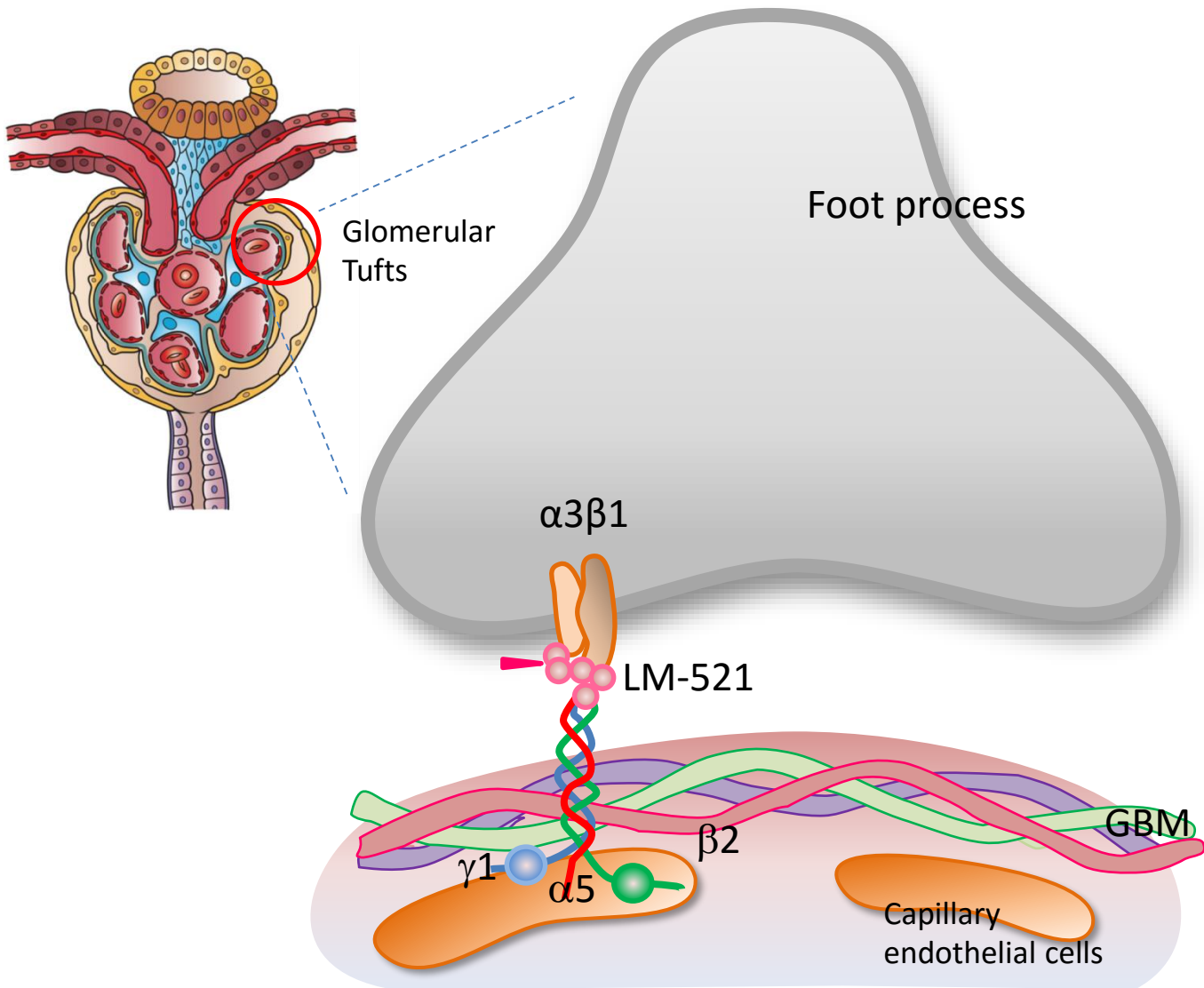


Additional file 5 Scheme of disease mechanism



Additional file 5 Basal attachment of the podocyte sole onto the glomerular basement membrane(GBM).

The globular (G, *red arrowhead*) domain of an unprocessed laminin $\alpha5$ chain (in LM-521) binds integrin receptor (IR) $\alpha3\beta1$ subunit. A loss-of-function of the $\beta2$ subunit (*green*) likely impairs the anchoring of the cell to GBM, thereby leading to the defective polarity and differentiation of the podocytes. The cartoon originally created by Domogatskaya A., et al (*Annu. Rev. Cell Dev. Biol.* 2012. 28:523–53) was modified with permission.