

Supplemental Material for:
Rheostats and toggle switches for modulating protein function
File 7: Physicochemical trends: Positions 60-62

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Figures S73-S87. Physico-chemical trends: positions 60-62. Repression assay data for each position were color-coded according to various physico-chemical scales. For example, Figures S73-S75 show results for position 60 color-coded by accessible surface area of the free side chain [46], side chain branching, and charge/polarity/aromaticity. The relevant parameter can be determined from the legend in the lower right hand corner of each graph. (Note that the legend is placed in a middle location for position 62, in order to place results for LLhT and LLhT/V52A in close proximity.)

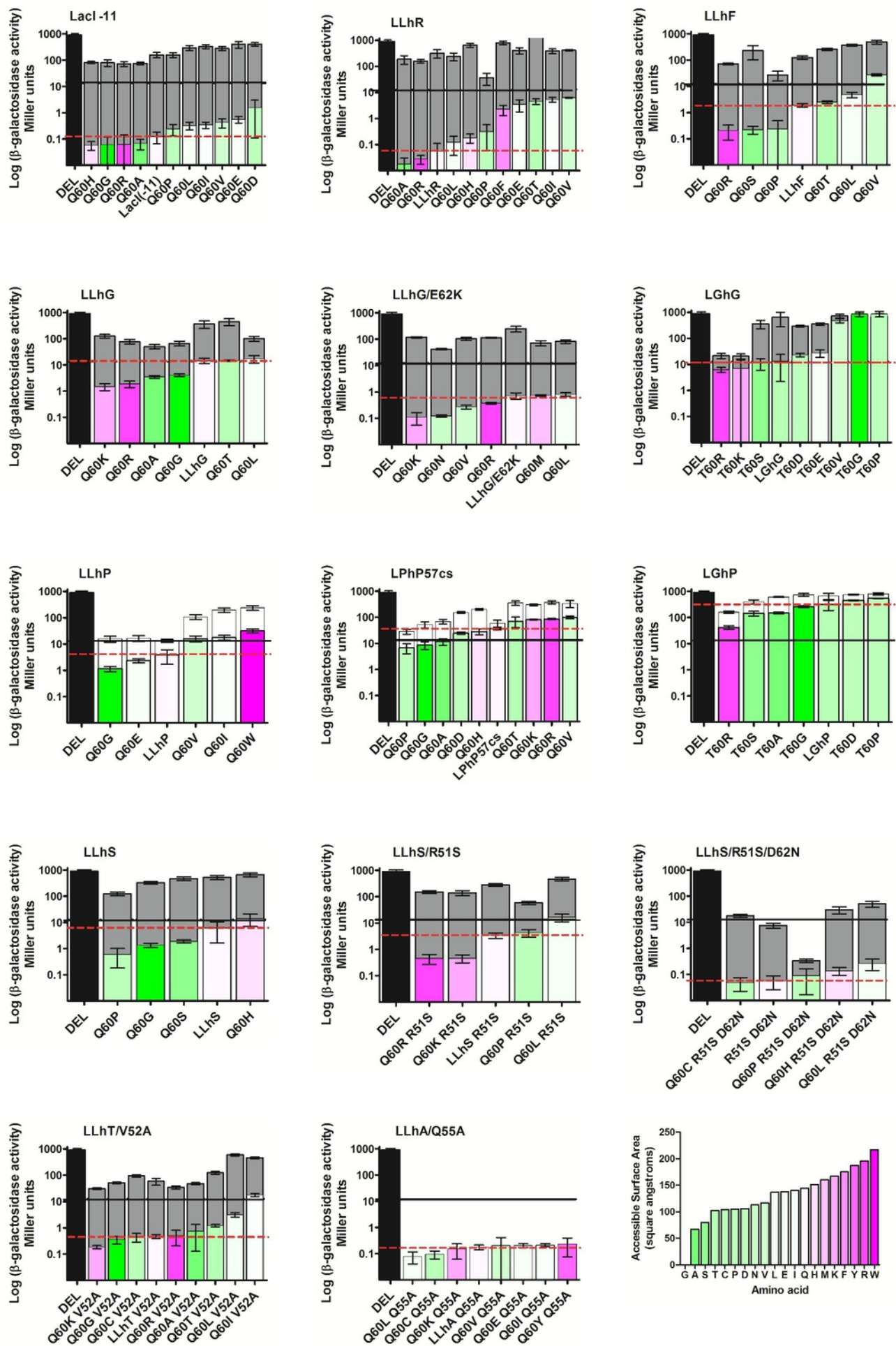


Figure S73: Physicochemical trends: Position 60, Accessible surface area

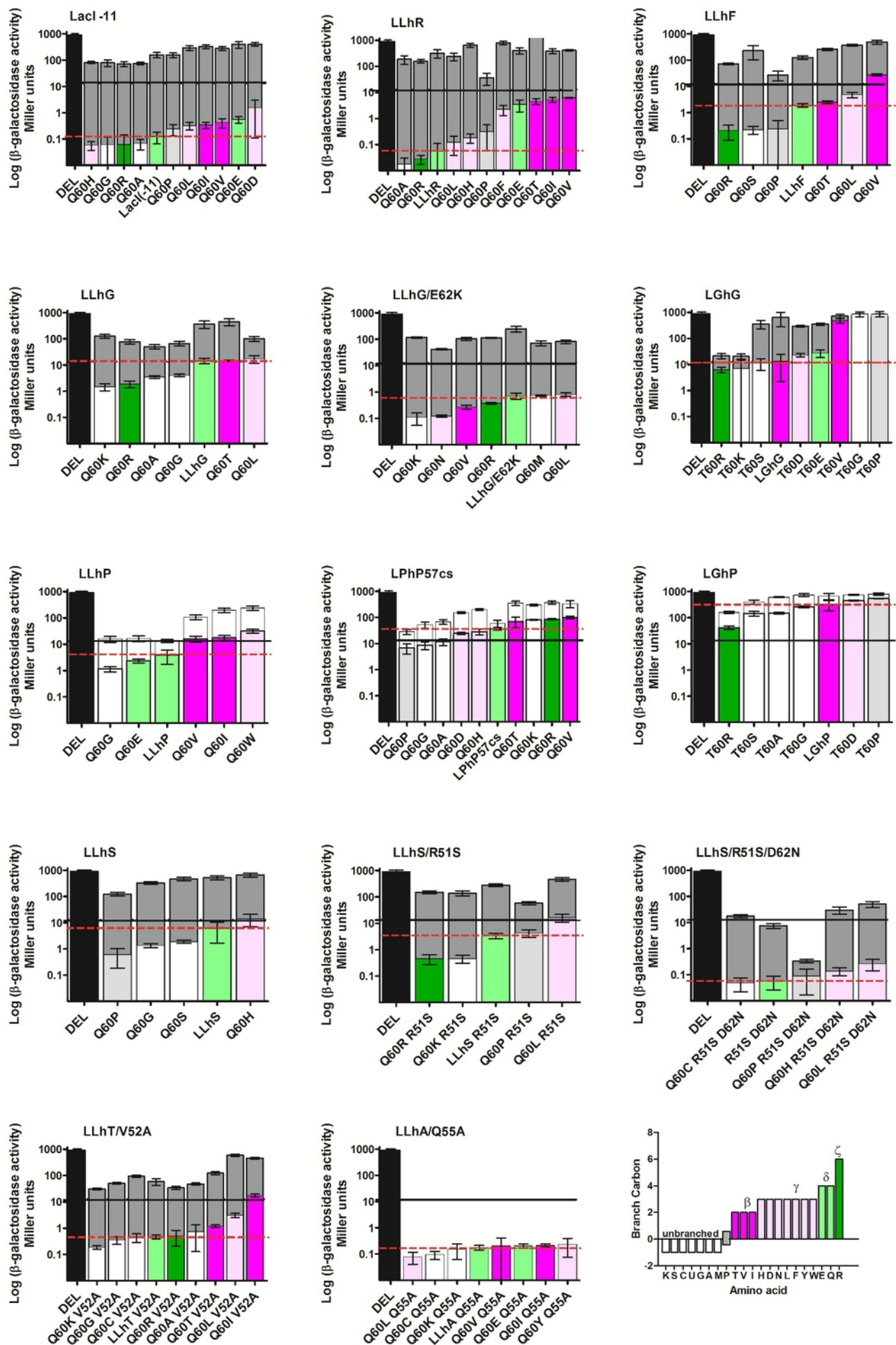


Figure S74: Physicochemical trends: Position 60, Side chain branching

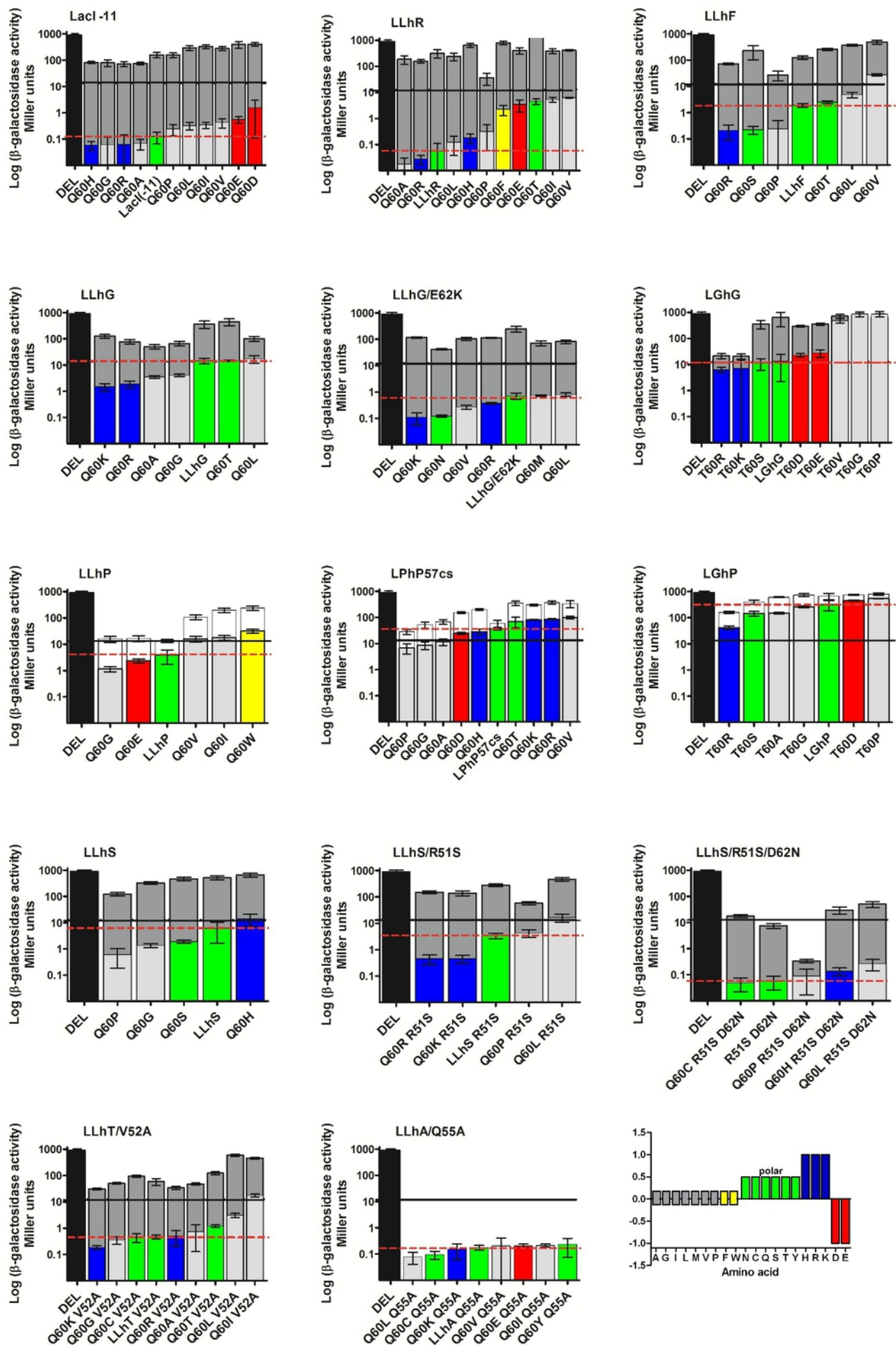


Figure S75: Physicochemical trends: Position 60, Charge/polarity/aromaticity

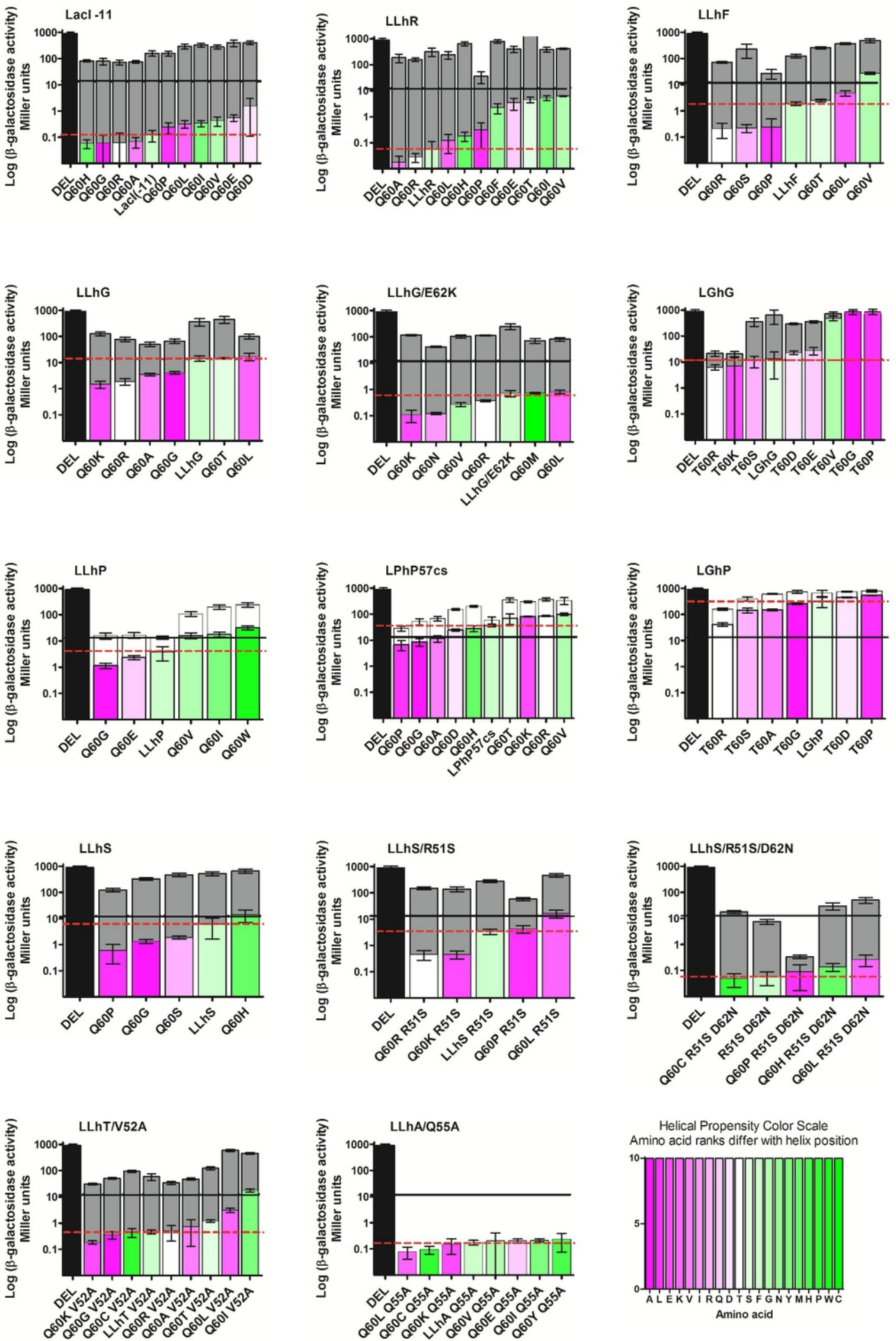


Figure S76: Physicochemical trends: Position 60, Helical propensity (C' scale)

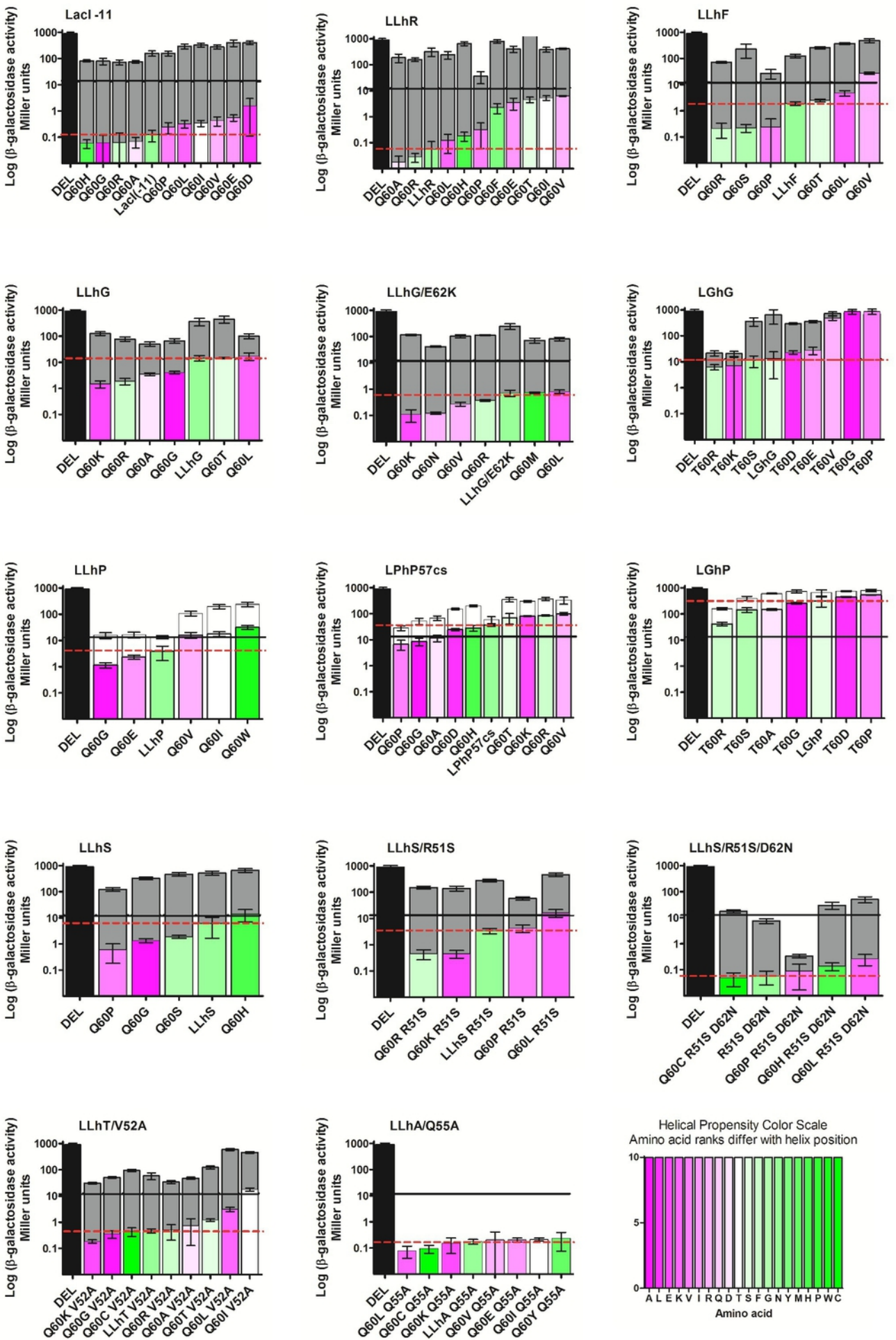


Figure S77: Physicochemical trends: Position 60, Helical propensity (C'' scale)

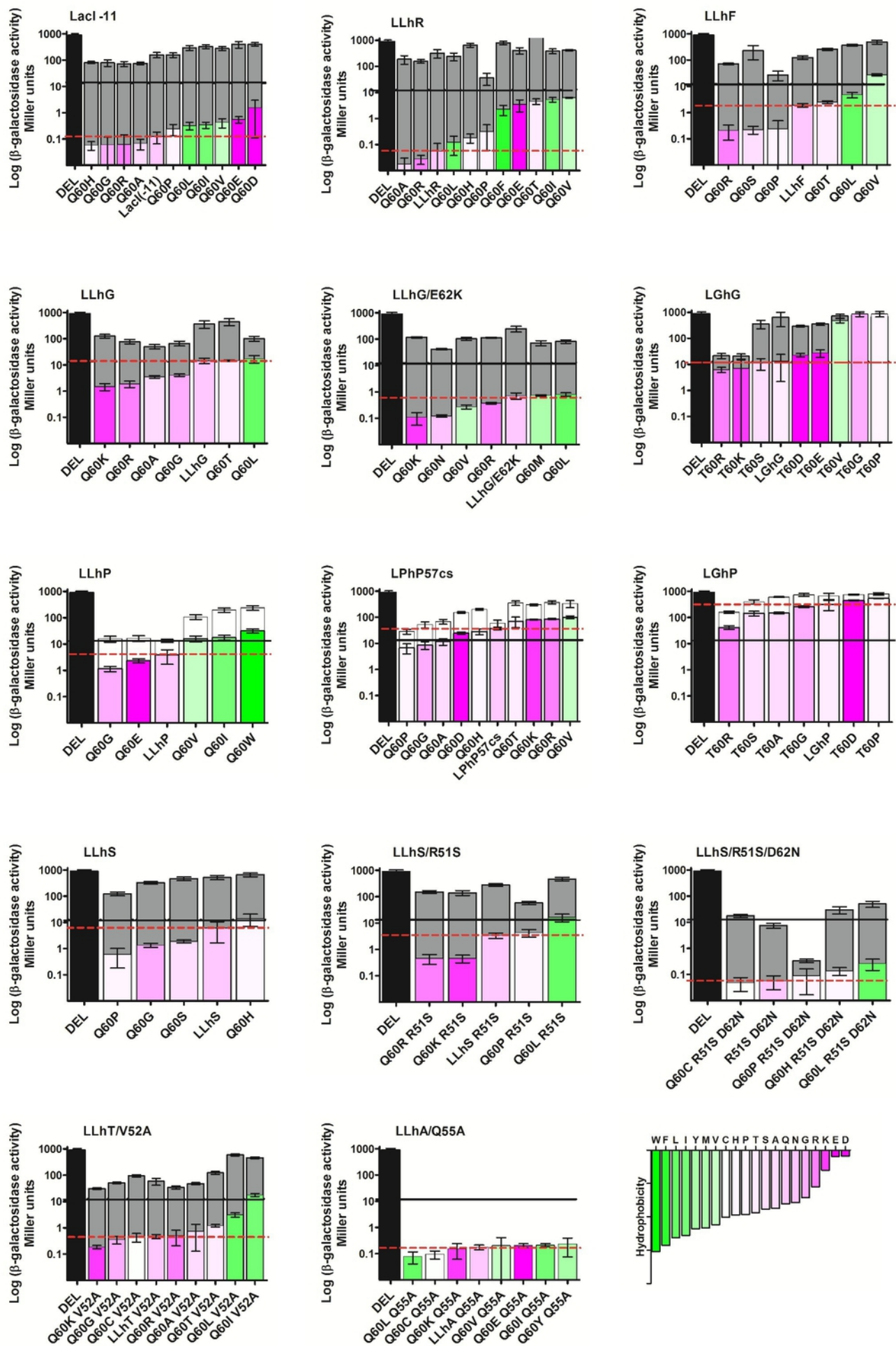


Figure S78: Physicochemical trends: Position 60, Hydrophobicity

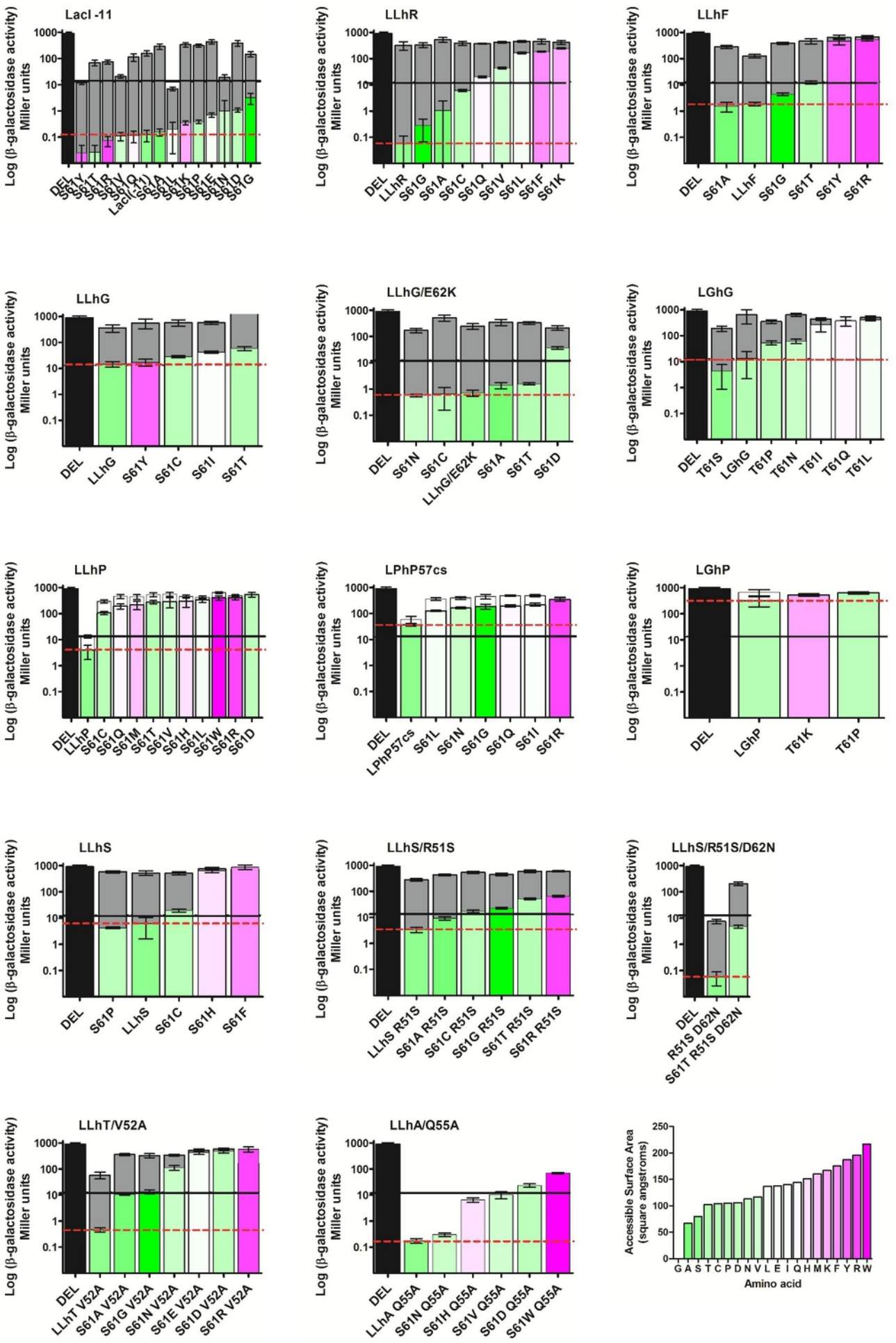


Figure S79: Physicochemical trends: Position 61, Accessible surface area

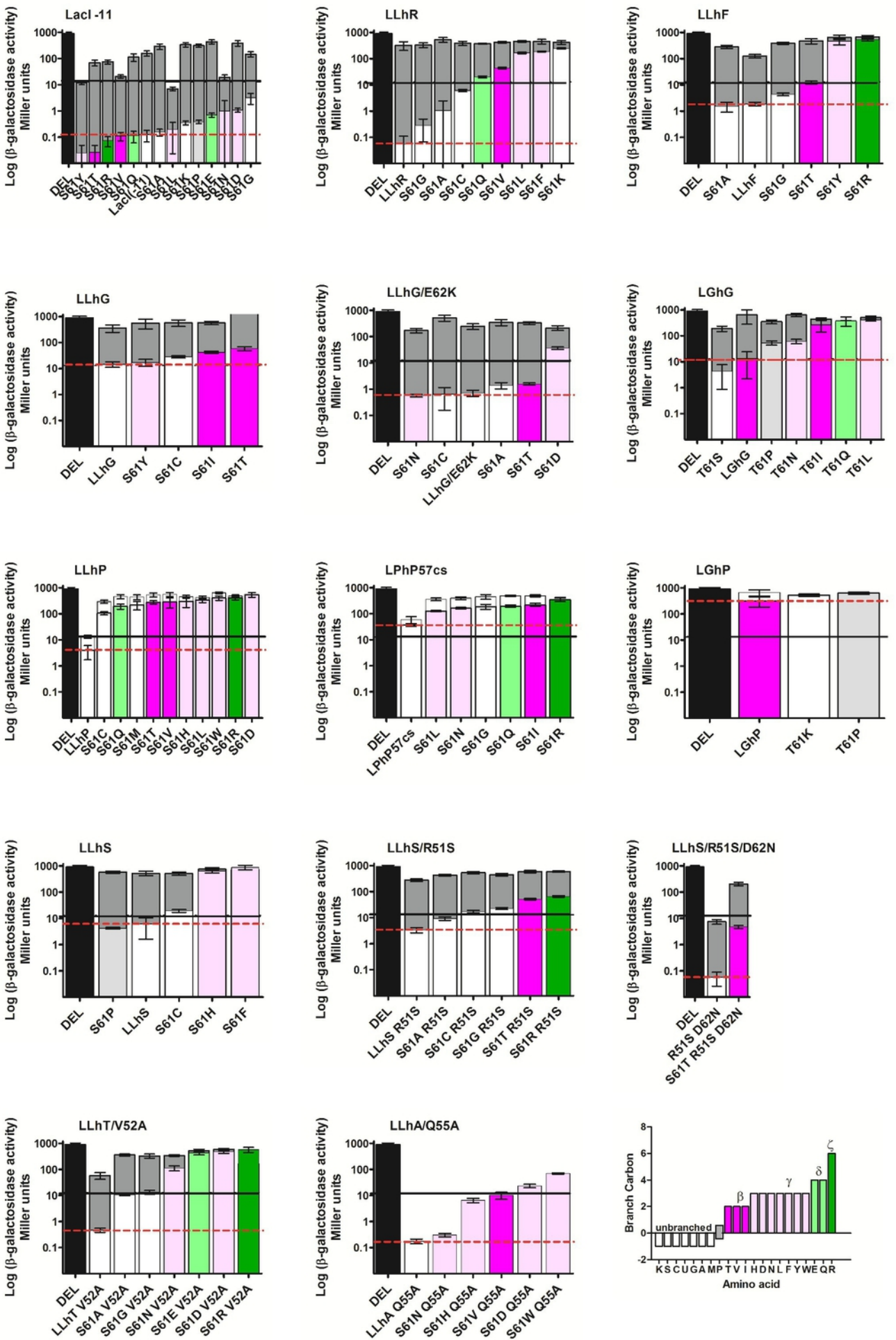


Figure S80: Physicochemical trends: Position 61, Side chain branching

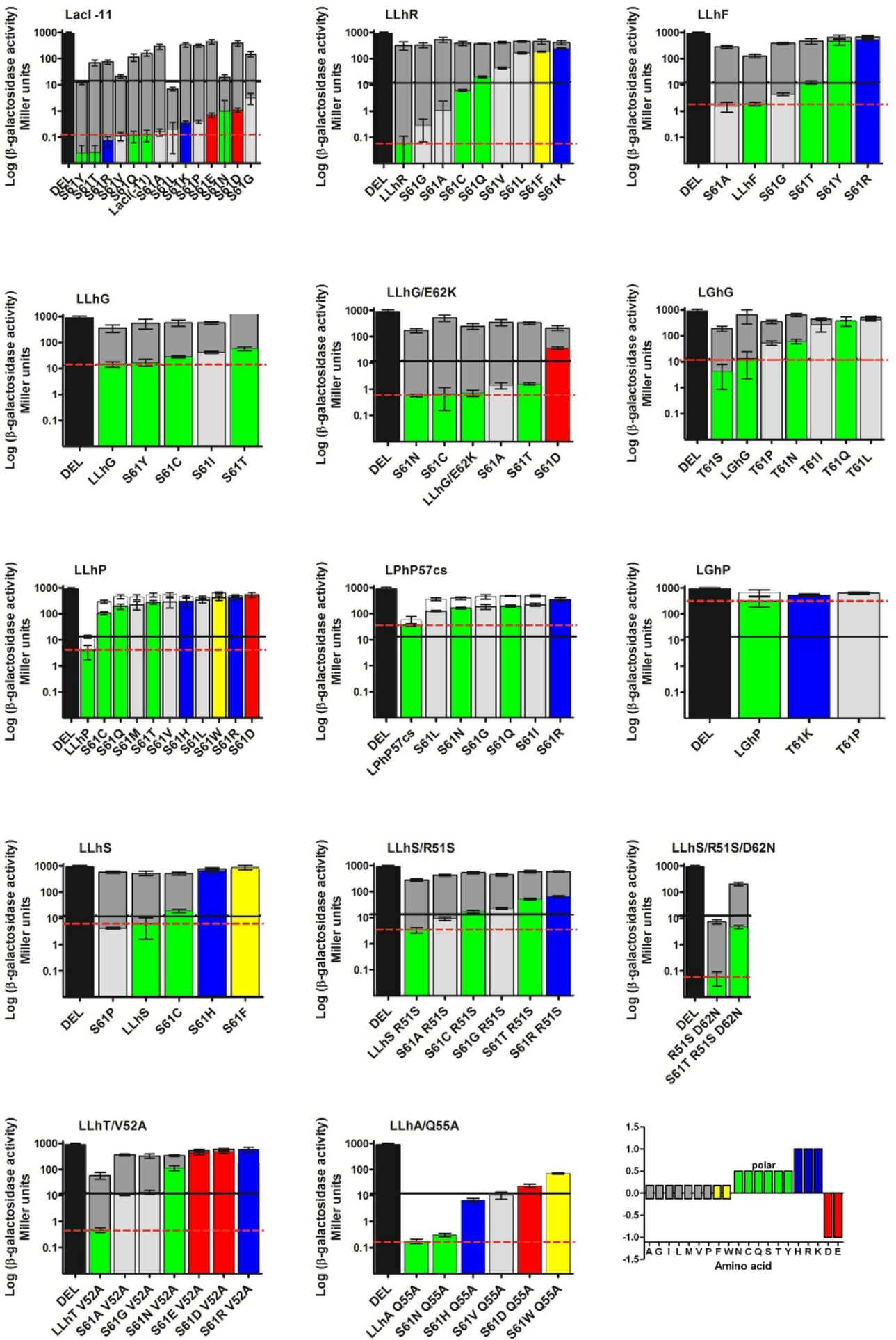


Figure S81: Physicochemical trends: Position 61, Charge/polarity/aromaticity

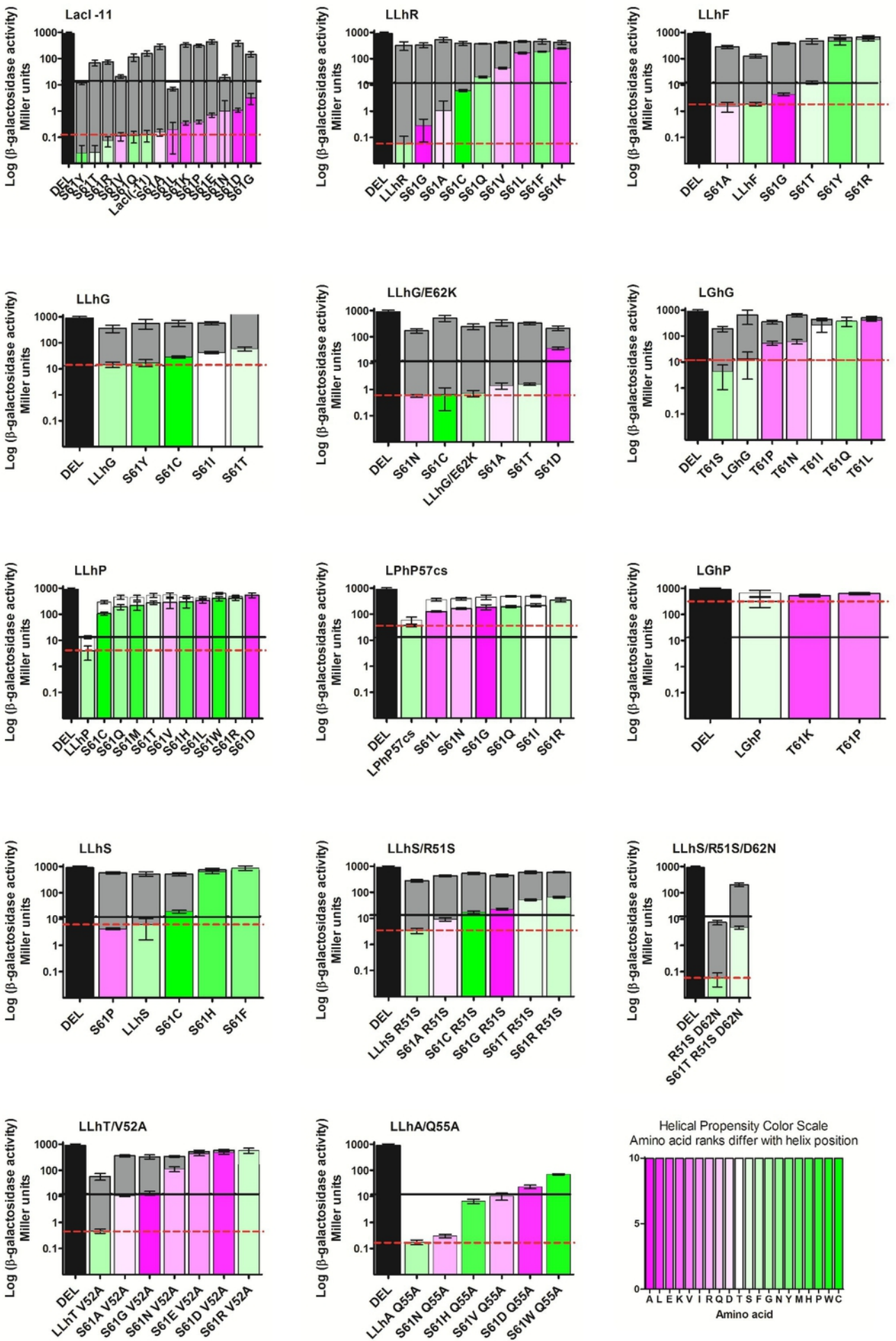


Figure S82: Physicochemical trends: Position 61, Helical propensity (C'' scale)

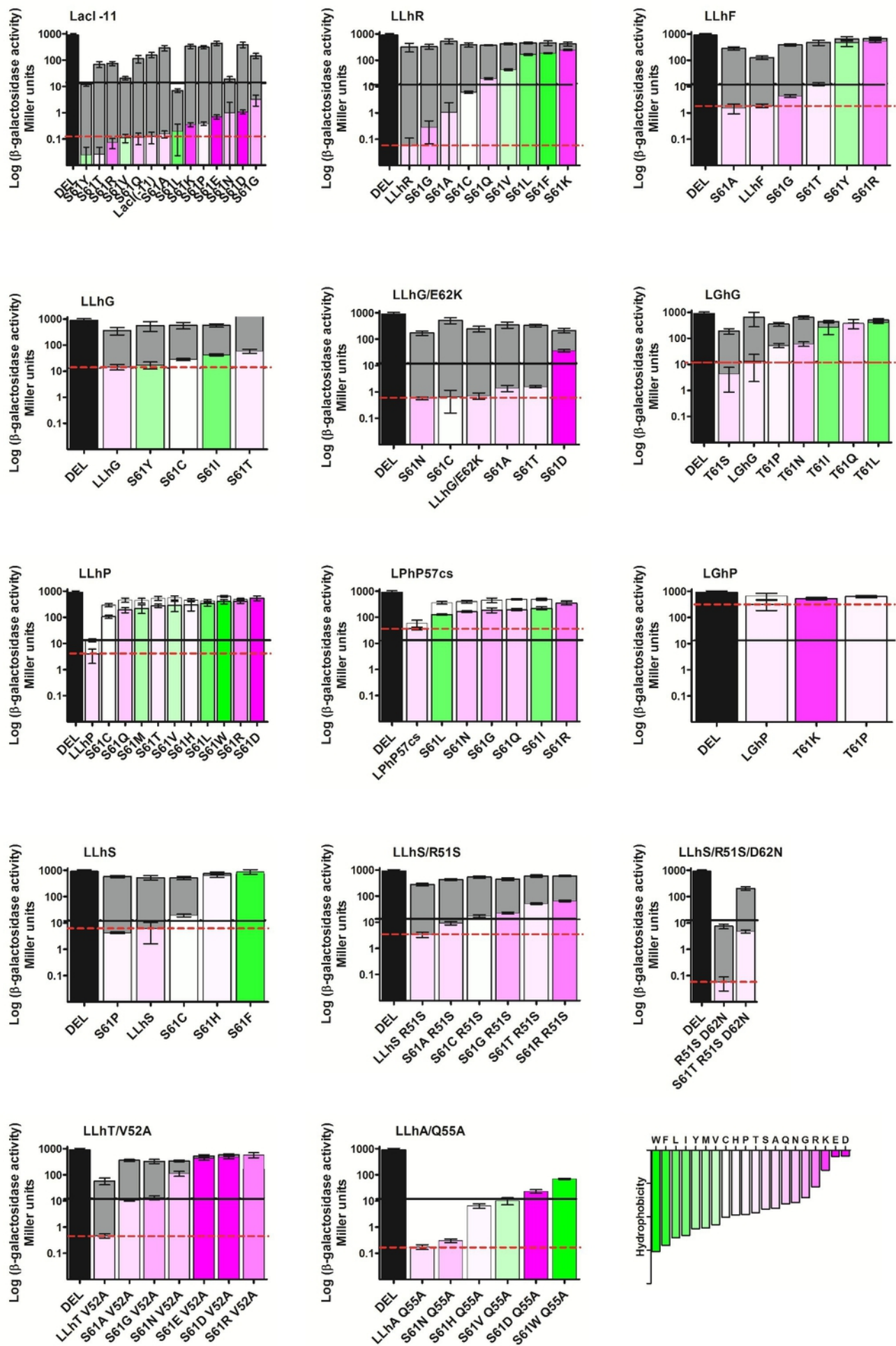


Figure S83: Physicochemical trends: Position 61, Hydrophobicity

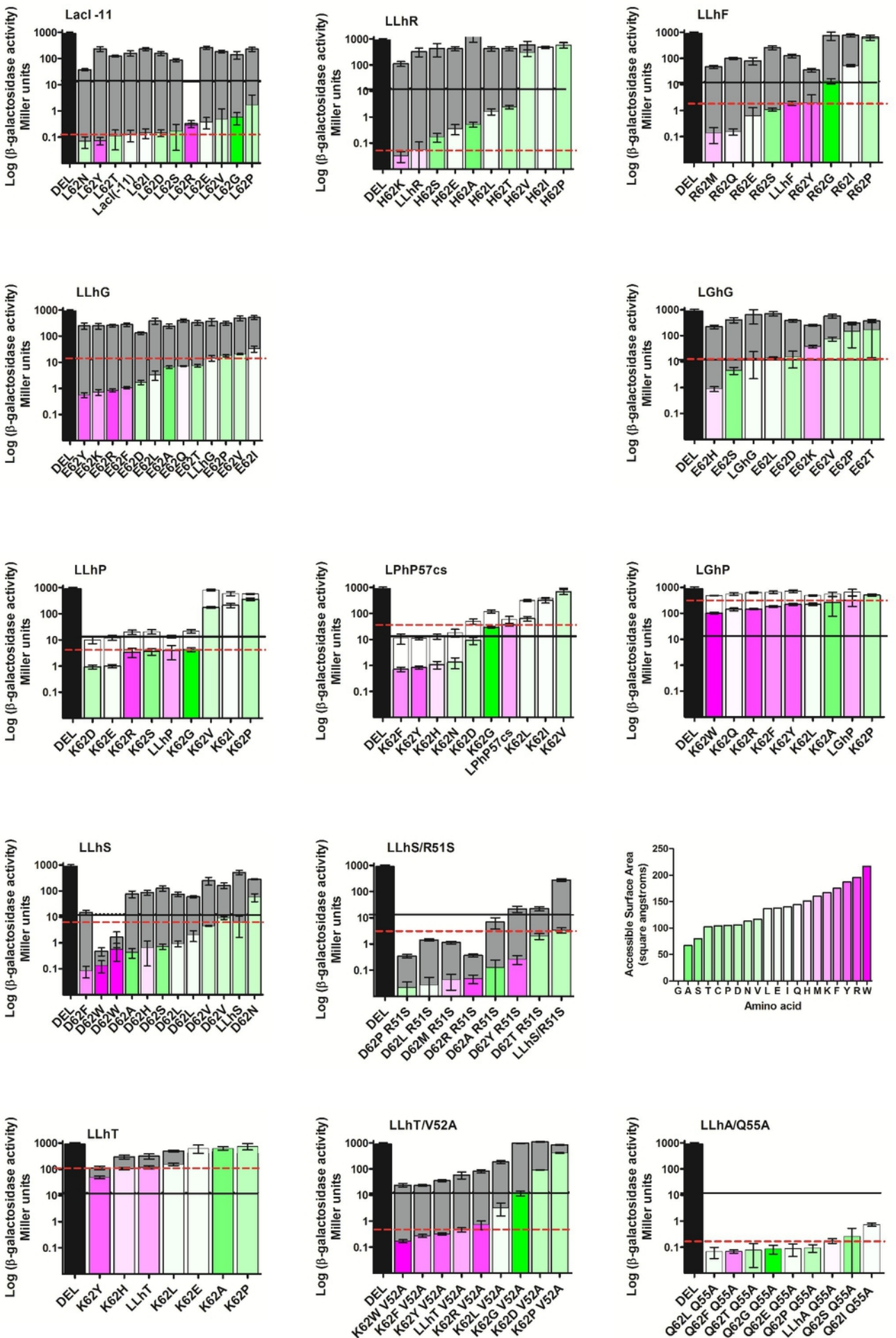


Figure S84: Physicochemical trends: Position 62, Accessible surface area

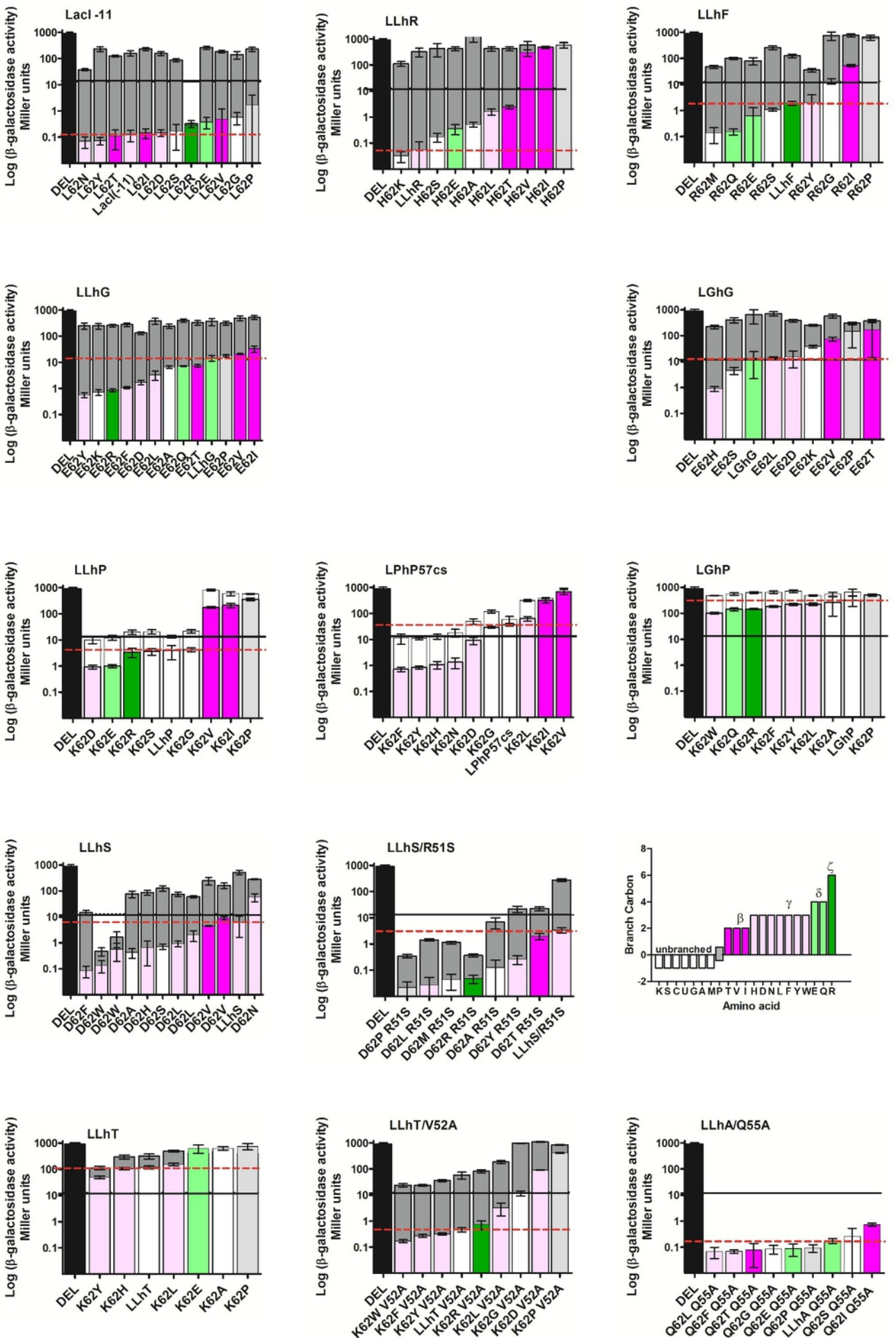


Figure S85: Physicochemical trends: Position 62, Side chain branching

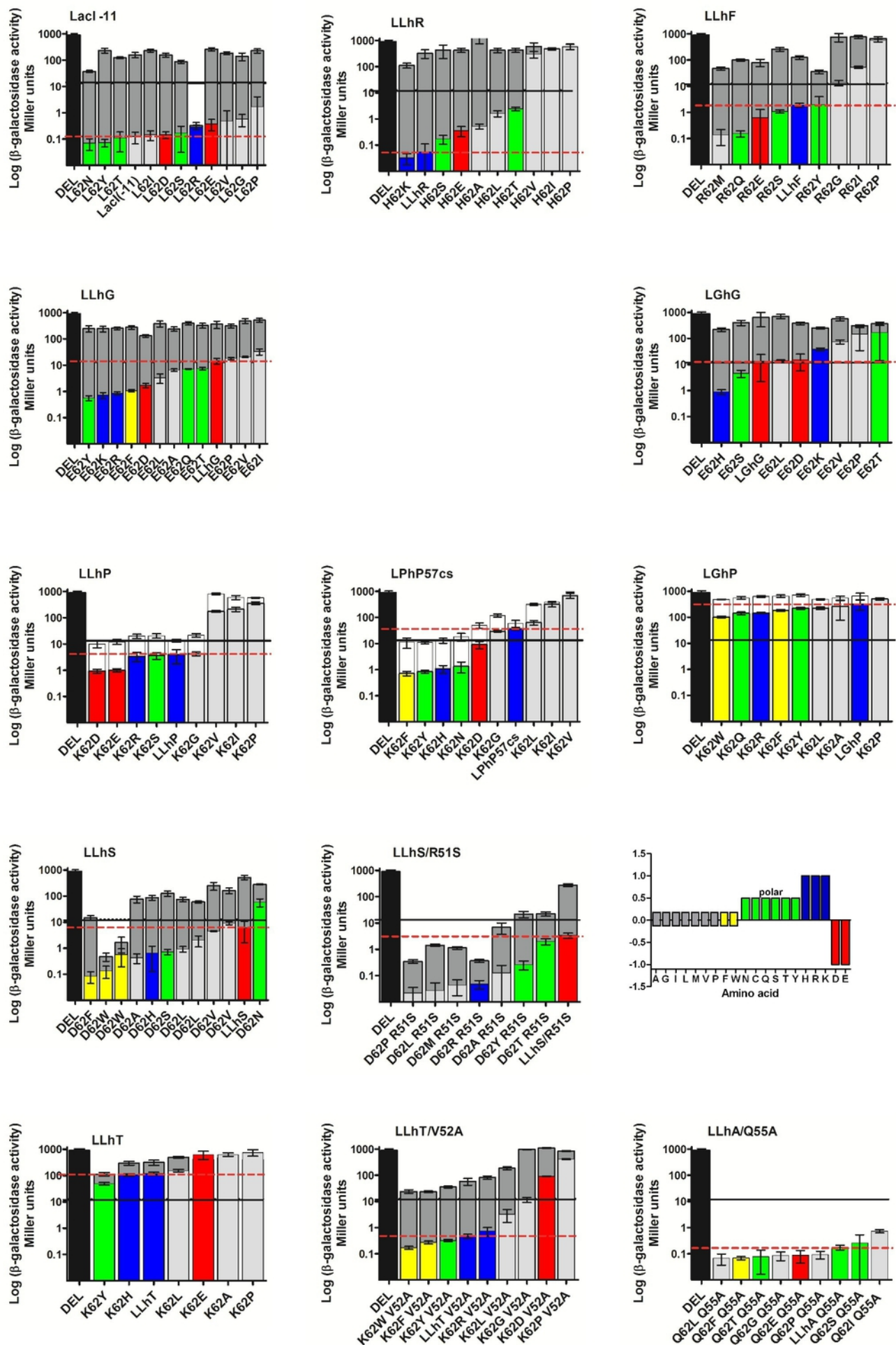


Figure S86: Physicochemical trends: Position 62, Charge/polarity/aromaticity

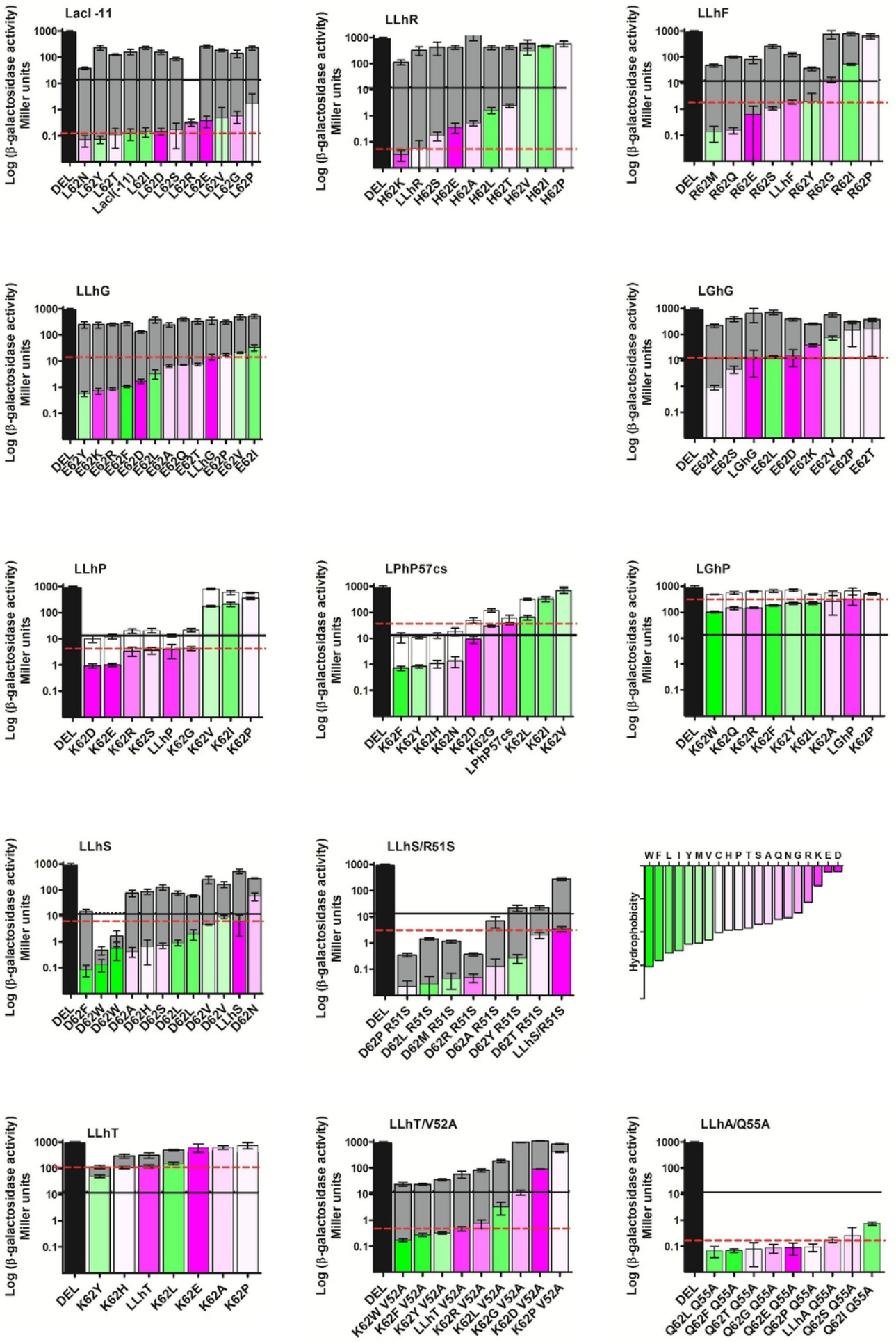


Figure S87: Physicochemical trends: Position 62, Hydrophobicity