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(54) Title: POLYPEPTIDE ENGINEERING, LIBRARIES, AND ENGINEERED CD98 HEAVY CHAIN AND TRANSFERRIN RECEPTOR BINDING POLYPEPTIDES

(57) Abstract: The present disclosure includes engineering methods and polypeptide libraries that are useful for introducing non-native binding sites into polypeptides. Also provided herein are polypeptides that bind to a CD98hc or transferrin receptor (TfR) protein, methods of generating such polypeptides, and methods of using the polypeptides to target a composition across the blood-brain barrier or to a CD98hc-expressing or TfR-expressing cell.

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