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(54) Title: TYPE I MEMBRANE PROTEINS HETERODIMERS AND METHODS OF USE THEREOF

(57) Abstract: Type I membrane proteins heterodimers are provided. Accordingly, there is provided a heterodimer comprising two polypeptides selected from the group consisting of SIRP alpha, PD1, TIGIT, LILRB2 and SIGLEC10, wherein each of the two polypeptides is capable of binding a natural binding pair thereof, and wherein the heterodimer does not comprise an amino acid sequence of a type II membrane protein capable of binding a natural binding pair thereof. Also provided are nucleic acid constructs and systems encoding the heterodimer, host-cells expressing same and methods of use thereof.

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