SUPPORTING INFORMATION

Targeting Unique Epitopes on Highly Similar Proteins GDF-11 and GDF-8 with Modified DNA Aptamers

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**Figure S1.** Truncation analysis of SOMAmer reagent 12060-28 (GDF-11) and 14583-49 (GDF-8). Affinity ($K_d$) and plateau of the binding curve were determined in radiolabel filter binding assays. The minimal sequences required for activity are highlighted black. Modified nucleotides P (NapdU) and W (TrpdU) are highlighted green and pink, respectively.
**Figure S2.** Equilibrium binding curves and specificity assays for 50-mers compared to the minimal truncates of GDF-11 specific SOMAmer reagent 14495-161.
**Figure S3.** Pair-wise competition binding assays of GDF-11 specific SOMAmer reagents. Radiolabeled probe concentrations were at 10 pM, and competitor reagents were in large excess (10 nM).
Figure S4. Structures of modified nucleotides used in selections. 1-naphthylmethyl (NapdU), 2-naphthylmethyl (2NapdU), 3-indole-2-ethyl (TrpdU), 2-naphthyl-2-ethyl (2NEdU), and 5-(N-benzylcarboxamide)-2’-deoxyuridine (BndU). DMT denotes dimethoxytrityl, CE denotes cyanoethyl, and PPP denotes triphosphate moieties.