## SUPPORTING INFORMATION

## Direct antibody isolation on cells using affinity-tag guided proximity selection

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Fig. S1. Overexpression of four GPCRs showed high expression levels in HEK293T cells.Fig. S2. Four SLCs successfully displayed the snorkel tag to the cell surface with good expression in HEK293T cells.



Anti-Myc staining

**Fig. S1. Overexpression of four GPCRs showed high expression levels in HEK293T cells.** Four human GPCRs, namely CCR9, CXCR3, CXCR4, CXCR7 (truncated form, truncated at amino acid Tyr322), were over-expressed in HEK293T as stable cell lines, respectively. In all constructs, the N-terminus is composed of a CD8a signal peptide followed by a Myc tag. The GPCR expression levels were quantified by anti-Myc staining using non-permeabilized live cells in the flow cytometry experiments. Red: GPCR stable cells; blue: parental HEK293T.



Anti-Myc staining

**Fig. S2. Four SLCs successfully displayed the snorkel tag to the cell surface with good expression in HEK293T cells.** Four human SLCs, namely SLC1A5, SLC6A5, SLC6A14, and SLC7A11, were over-expressed in HEK293T as stable cell lines, respectively. In all constructs, a snorkel tag, which is composed of a transmembrane domain followed by a Myc-tag, was fused to the C-terminus in order to display the Myc-tag to the extracellular space. The SLC expression levels were quantified by anti-Myc staining using non-permeabilized live cells in the flow cytometry experiments. Red: SLC stable cell; blue: parental HEK293T.