

1 **SUPPORTING INFORMATION**

2 **In vitro functional analysis of four variants of human asparagine synthetase**

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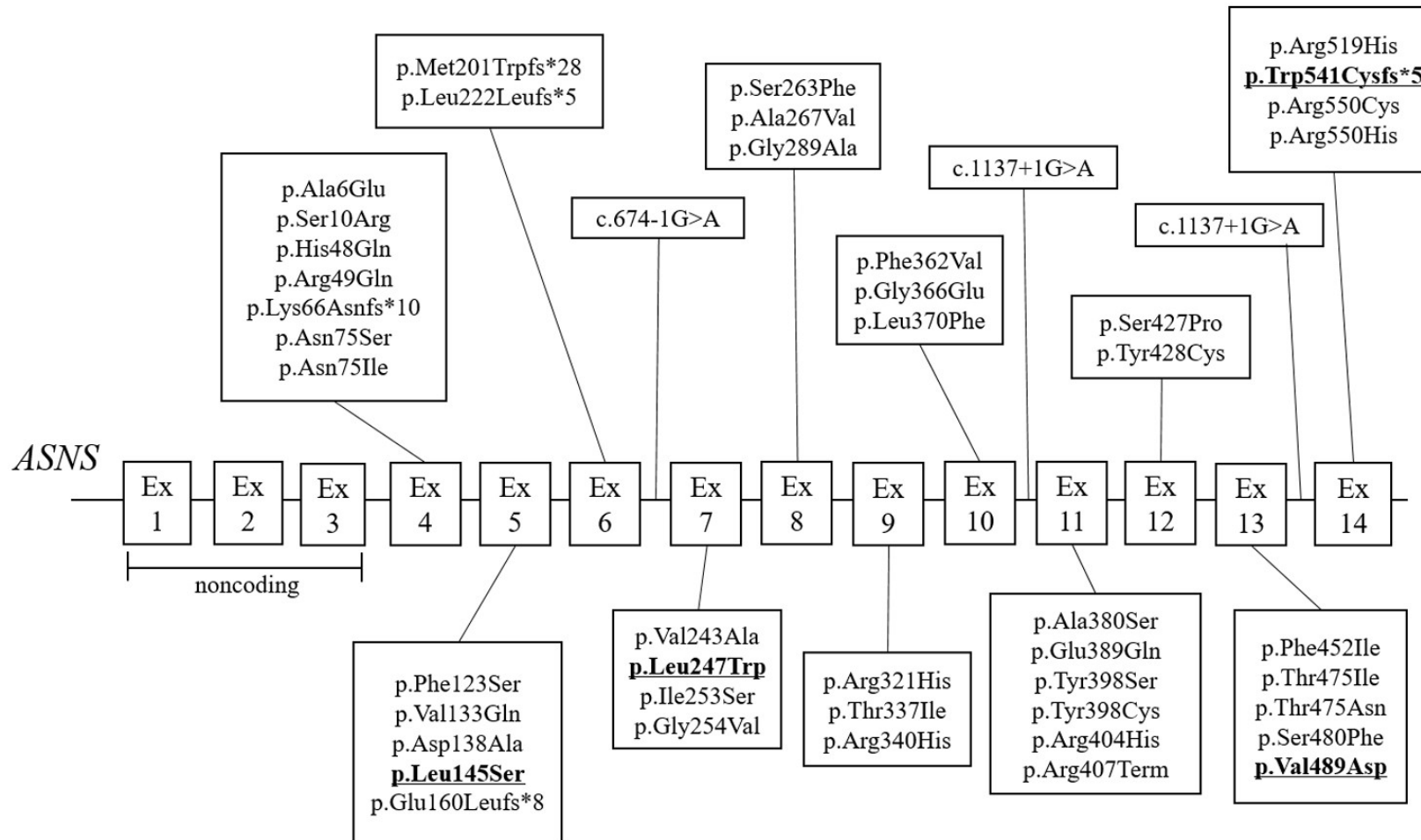
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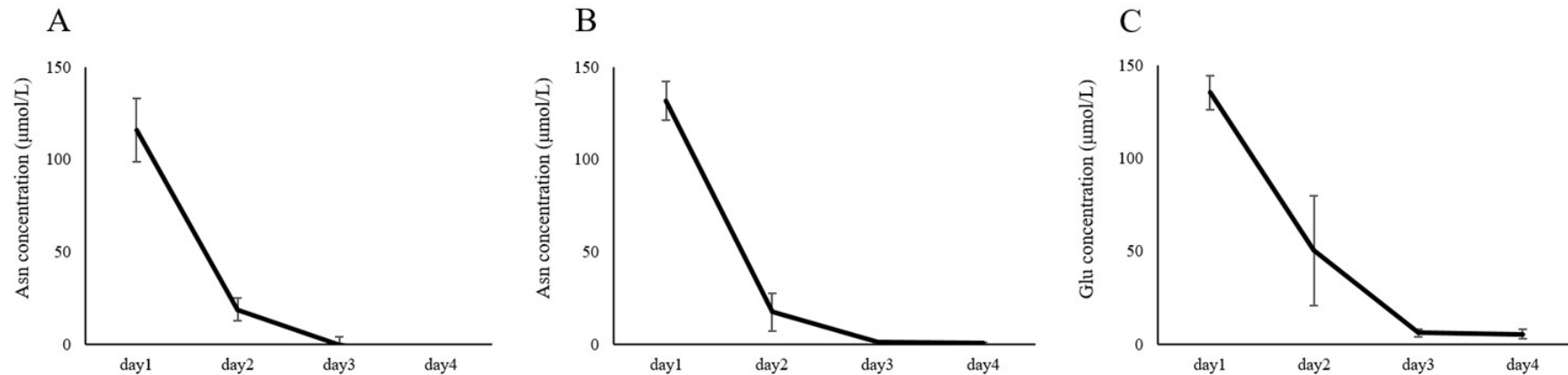
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18 **FIGURE S1** Reported variants of *ASNS*. Variants in bold and underlined are those analyzed in this study



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20 **FIGURE S2** Changes in the enzymatic activity of recombinant human ASNS over time. A, Concentration of asparagine measured by

21 the ninhydrin method using 6.4  $\mu\text{g}$  of recombinant human ASNS and glutamine as the substrate for the enzymatic reaction. B,

22 Concentration of asparagine measured by the HPLC fluorescence detection method using 6.4  $\mu\text{g}$  of recombinant human ASNS and

23 glutamine as the substrate for the enzymatic reaction. C, Concentration of glutamate measured by the HPLC fluorescence detection

24 method using 6.4  $\mu\text{g}$  of recombinant human ASNS and glutamine as the substrate for the enzymatic reaction. The bars in all graphs are

25 standard errors

26 **Supplementary References**

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