**Supplemental Figures and tables**

**Supplementary Table 1: MAP subject maternal and household clinical characteristics**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| MAPsample ID | Gestational Age at Birth | Gender | Ethnicity | Maternal Age | Household Smoking | Household Pet | Older Siblings | Self-Reported antibiotic Use | Maternal Atopy History |
| J7 | 32.5 | M | Hispanic | 36 | No | Dog | Yes | Yes | No |
| J8 | 31.1 | F | Hispanic | 28 | No | No | Yes | Yes | No |
| J9 | 27.4 | M | Hispanic | 33 | No | No | Yes | No | No |
| J10 | 31.3 | M | Hispanic | 31 | Yes | No | Yes | No | Asthma and seasonal allergies |
| J11 | 33.5 | M | Hispanic | 30 | No | Dog | Yes | No | No |
| J12 | 29.2 | M | Hispanic | 24 | No | Dog | No | No | No |

**Supplementary Figure 1:**

Peptide alignment maps of a) Felis Catus and b) Beta-Lactoglobulin





**Supplemental Figure 2 Relative Quantification Bovine Caseins**



 **MAP samples and non-hydrolyzed fortifier were quantified for bovine caseins. J11 (fortified preterm formula) and the formula sample showed the highest expression of bovine caseins.**