v_2^n v_3^n

γ_n^2 γ_n^3

v_n

γ_n^1 v_4^n

v_1^n γ_n^4

γ_n^5

v_5^n

$\tilde{x}_n$

△ **SCI**   □ **CRE**   ▽ **CN**

Class 1

Class 2

Class 3

Class 4

...

Class 317

Class 318

Class 319

Class 320

(a) Input Protein   (b) Iterative Clustering △□▽   (c) Output Amino Acids   (d) Classification