

Supplementary File for

**ACME: Pan-specific peptide-MHC class I binding
prediction through attention-based deep neural
networks**

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⁵ Turing AI Institute of Nanjing, Nanjing, China.

⁶ Department of Computer Science and Technology, Tsinghua University, Beijing, China.

⁷ Bioinformatics Division, Beijing National Research Center for Information Science and Technology.

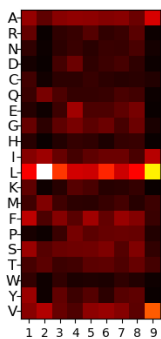
⁸ MOE Key Laboratory of Bioinformatics, Tsinghua University, Beijing 100084, China.

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This file contains the binding motifs of all the allele with experimental data in the IEDB MHC class I binding dataset. Each motif is visualized using a heatmap where every pixel stands for a specific type of amino acid at a certain position in the peptide. The brighter a pixel is, the more important the corresponding residue would be. Motifs were generated as described in Materials and methods.



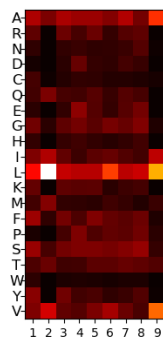
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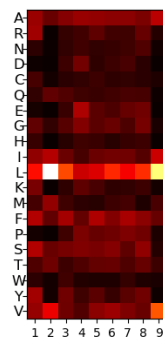
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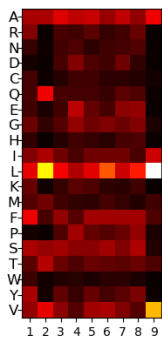
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A*02:03



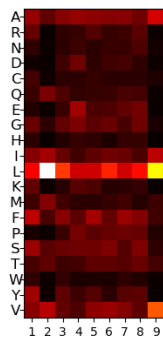
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A*02:05



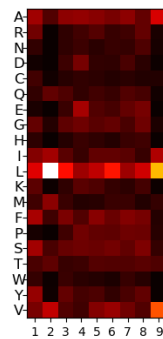
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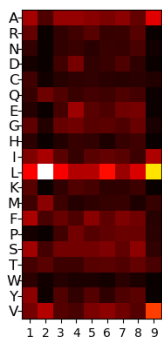
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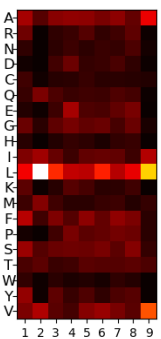
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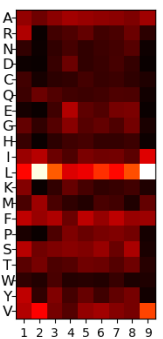
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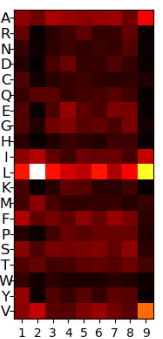
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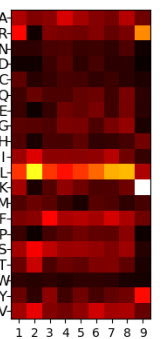
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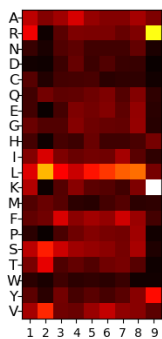
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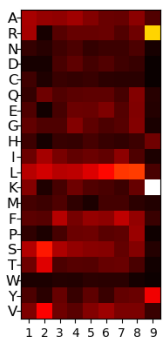
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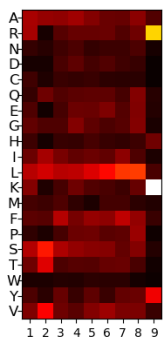
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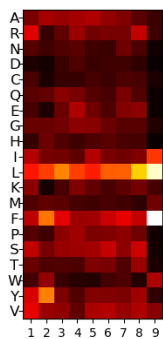
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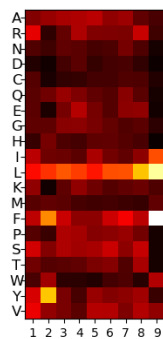
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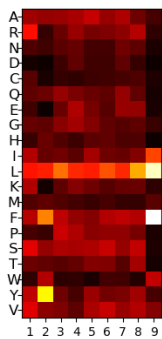
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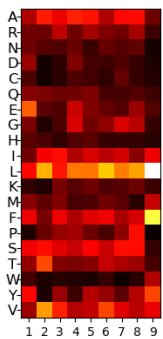
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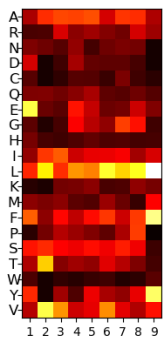
A*24:02



A*24:03



A*25:01



A*26:01



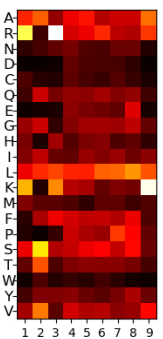
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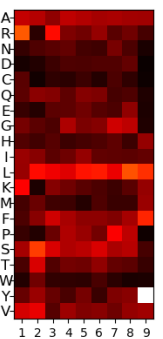
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A*29:02



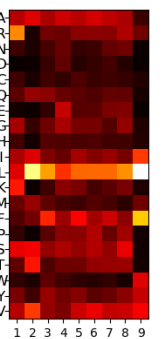
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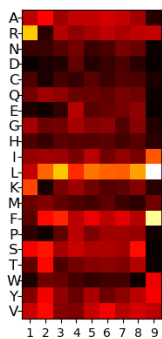
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A*31:01



A*32:01



A*32:07



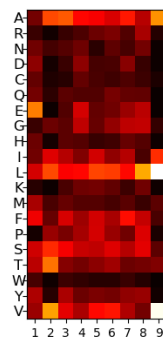
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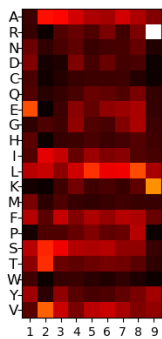
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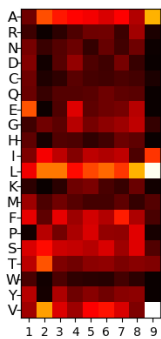
A*68:01



A*68:02



A*68:23



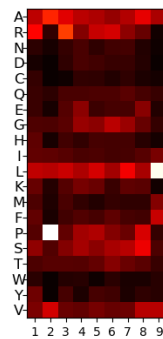
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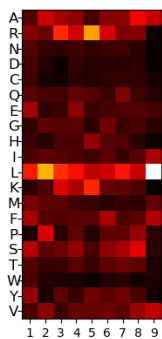
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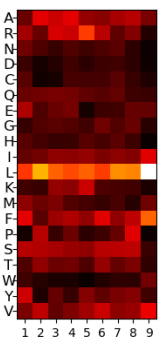
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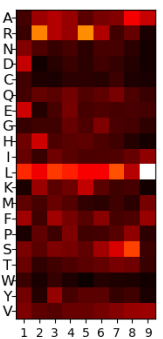
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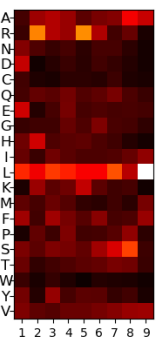
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B*08:02



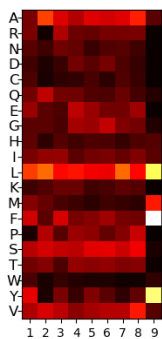
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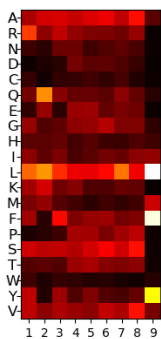
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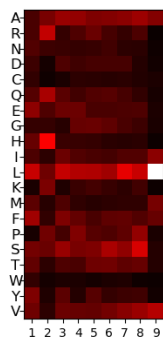
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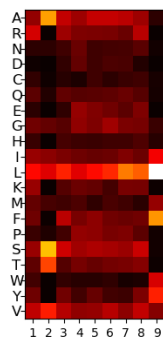
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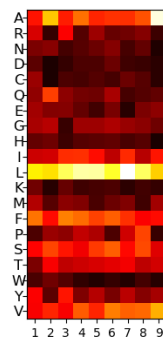
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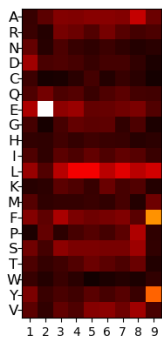
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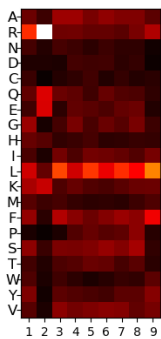
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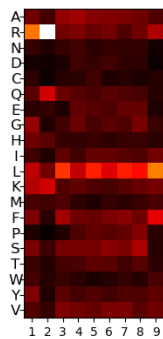
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B*18:01



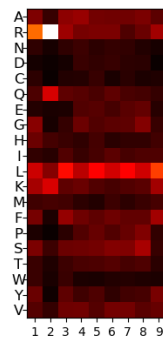
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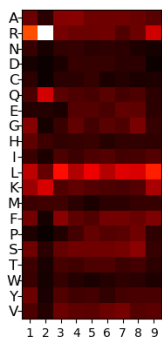
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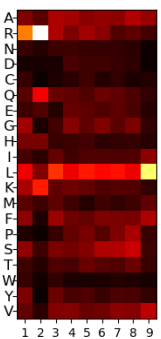
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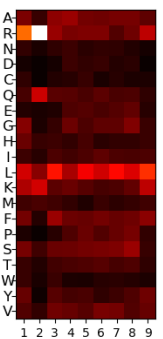
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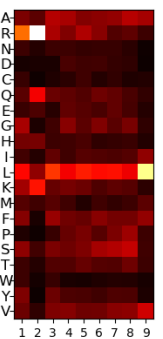
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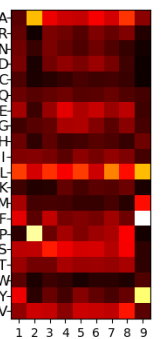
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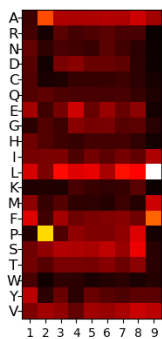
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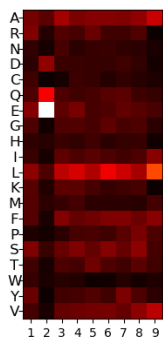
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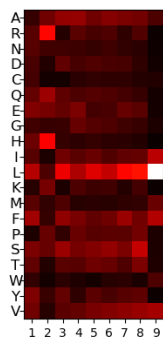
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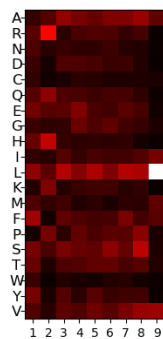
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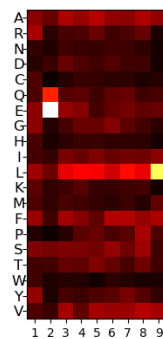
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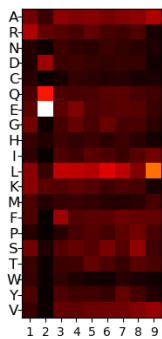
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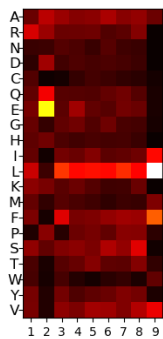
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B*40:01



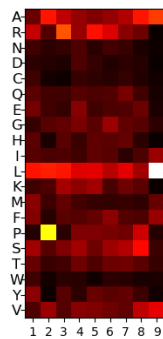
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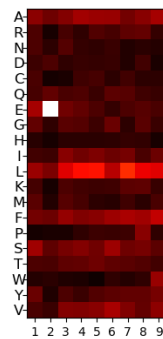
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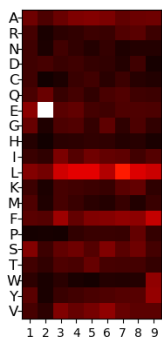
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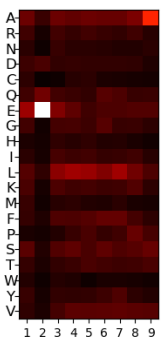
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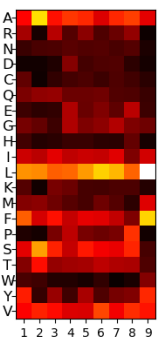
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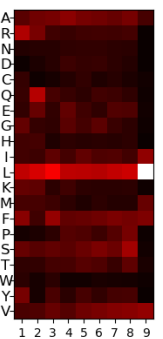
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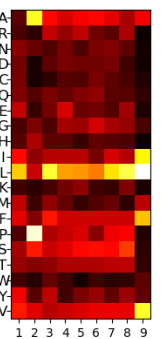
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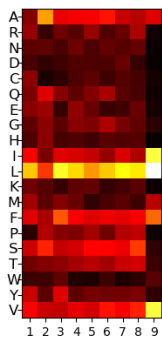
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B*48:01



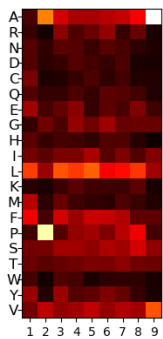
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B*52:01



B*53:01



B*54:01



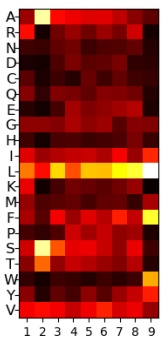
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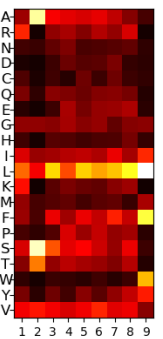
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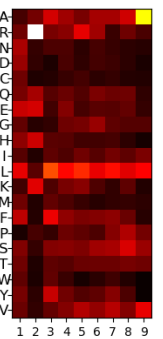
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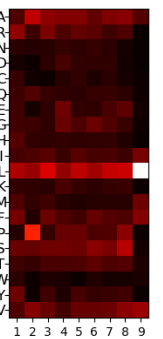
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B*58:02



B*73:01



B*81:01