Gene: ['A', 'B', 'C', 'DPB1', 'DQA1', 'DQB1', 'DRB1', 'DRB3', 'DRB4', 'DRB5']

Diagram

Description automatically generated

**Class I: A B C**

ใช้ส่วน alpha1 alpha2

**Class II: DPB1 DQA1 DQB1 DRB1 DRB3 DRB4 DRB5**

ใช้ส่วน alpha1 beta2

Ref: Abul K. Abbas, Andrew H. H. Lichtman, Shiv Pillai - Cellular and Molecular Immunology-Elsevier (2017)

**Alleles ตัวแทน**

['A\*29:126Q' 379.0]

['A\*02:760N' 7.0]

with average of 295.9446317427386

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['B\*13:123Q' 371.0]

['B\*15:182N' 6.0]

with average of 294.44950322087567

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['C\*02:205Q' 400.0]

['C\*03:20N' 7.0]

with average of 304.75860271115744

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['DPB1\*01:01:01:01' 258.0]

['DPB1\*1285:01N' 2.0]

with average of 193.64941278816877

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['DQA1\*01:01:01:01' 255.0]

['DQA1\*04:12N' 11.0]

with average of 234.2751798561151

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['DQB1\*05:03:01:01' 269.0]

['DQB1\*05:235N' 4.0]

with average of 189.06989247311827

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['DRB1\*15:203Q' 267.0]

['DRB1\*01:39N' 4.0]

with average of 153.1701090074584

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['DRB3\*01:01:02:01' 266.0]

['DRB3\*01:26N' 25.0]

with average of 155.4517543859649

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['DRB4\*01:01:01:01' 266.0]

['DRB4\*01:121N' 5.0]

with average of 156.7816593886463

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['DRB5\*01:01:01:01' 266.0]

['DRB5\*01:101N' 7.0]

with average of 153.3068783068783

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**เลือก Alleles ตัวแทน**

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with average of 294.44950322087567

เลือก <https://www.rcsb.org/sequence/1A1N> (MHC CLASS I MOLECULE B\*3501**)**

**50 - 84 alpha helix 1**

**140 - 179 alpha helix 2**

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['C\*03:20N' 7.0]

with average of 304.75860271115744

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