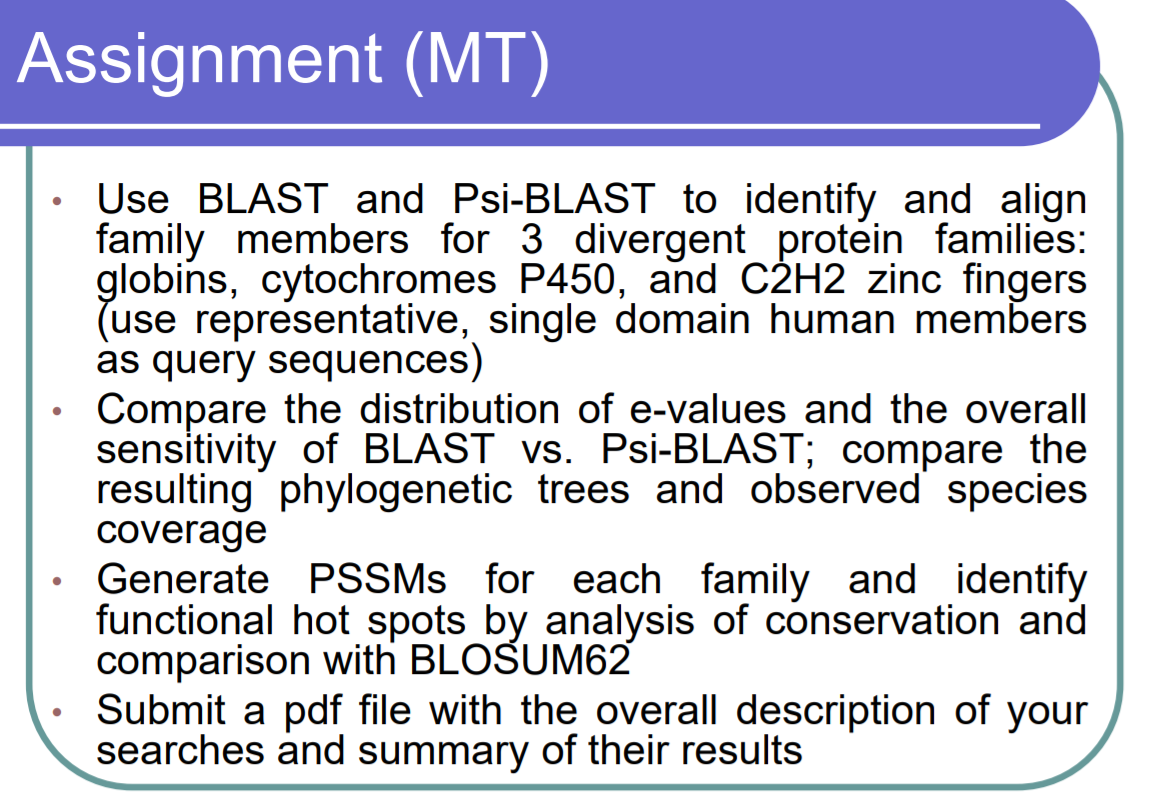
**Kishan Sarpangala**

**Assignment 3**



**BLAST RESULTS**

**Neuroglobin**

Blast Result: Neuroglobin Fasta file:

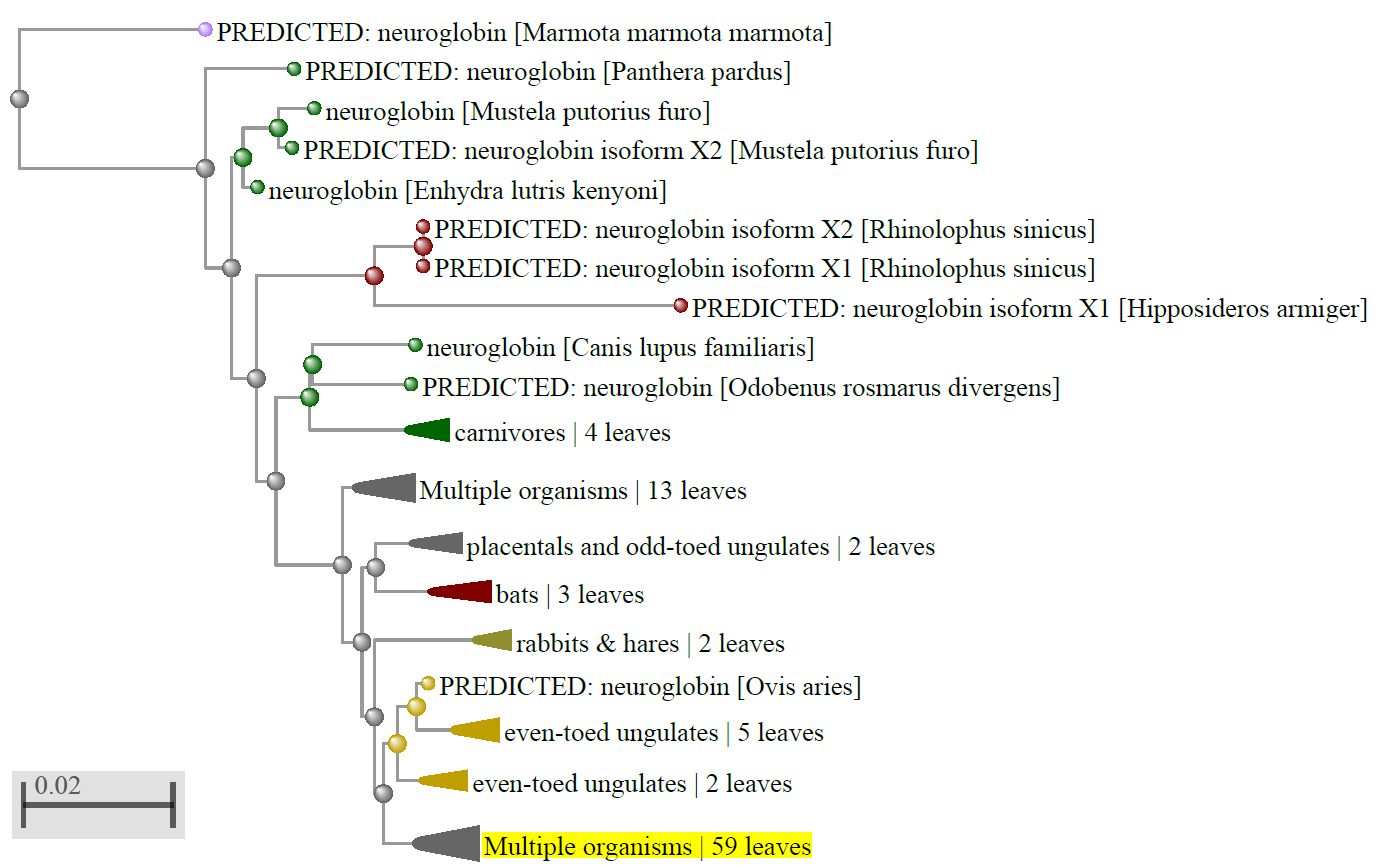
Blast Result in Excel format:

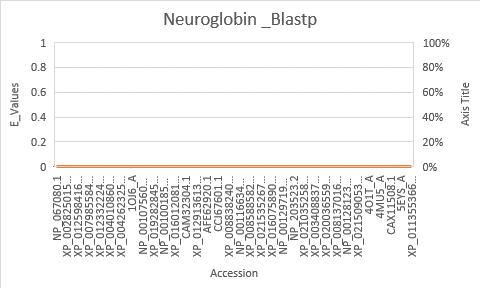


Analysis:



Diagram Tree of Neuroglobin





**Cytochromes P450**

**Blast Result**: Cytochromes P450 Fasta file:

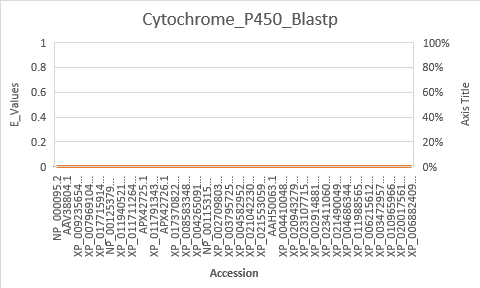
 

Blast Result in Excel format:

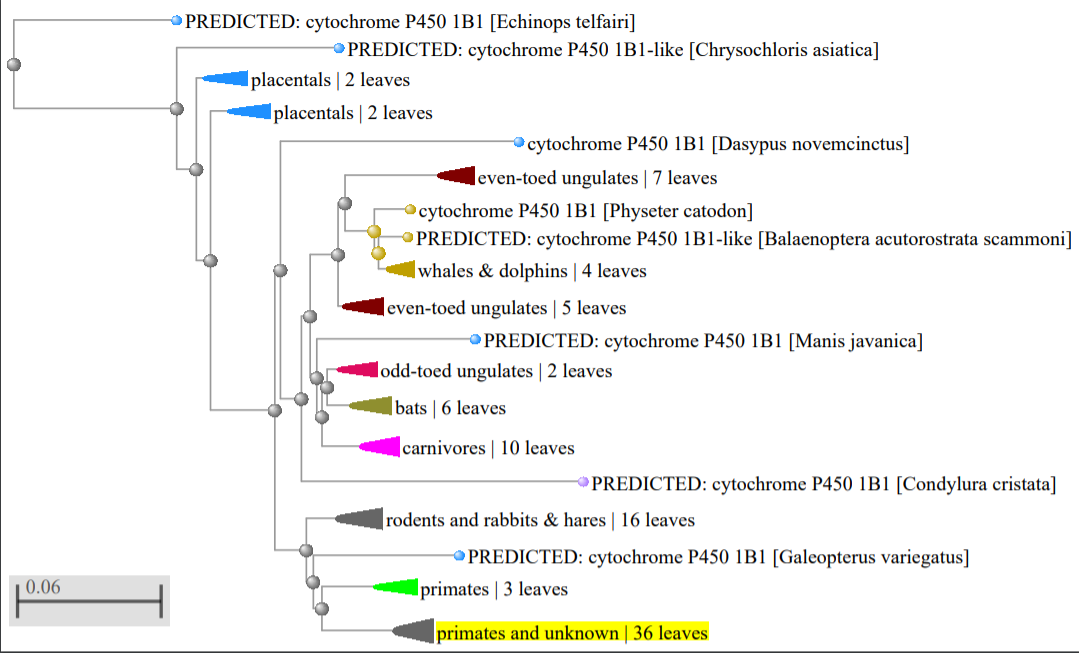


Analysis:





**Diagram Tree of Cytochromes P450:**



**C2H2 Zinc Fingers**

Blast Result: C2H2 Zinc Fingers Fasta file:

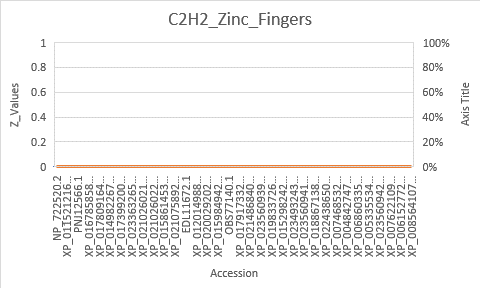
** **

Blast Result in Excel format:

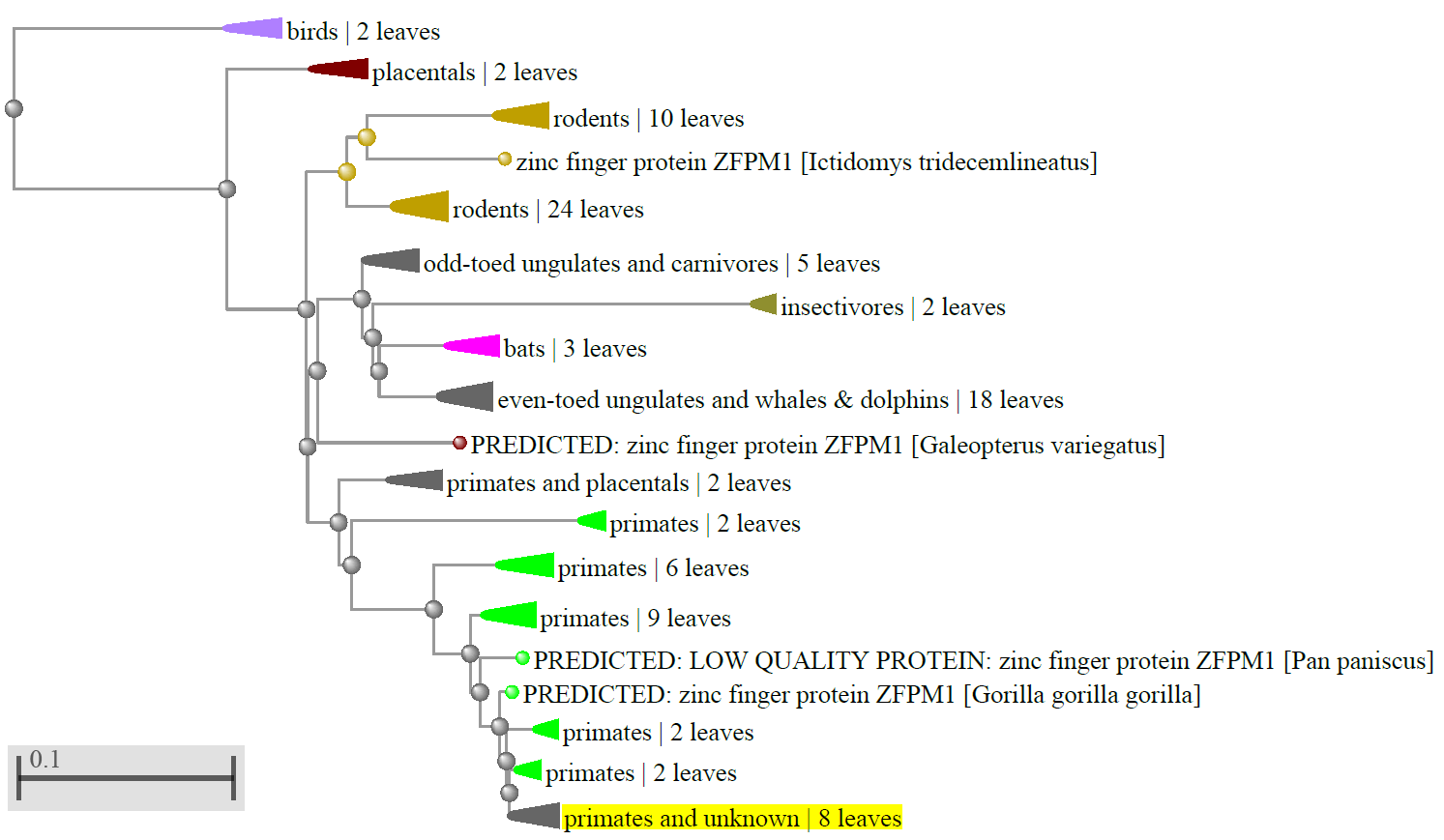
****

**Analysis:**

****



**Diagram Tree of C2H2 Zinc Fingers:**



**PSI\_BLAST RESULTS**

**Neuroglobin**

Blast Result:

First Iteration Second Iteration Third Iteration

Blast Result in Excel format:

First Iteration Second Iteration Third Iteration

Neuroglobin Fasta file:



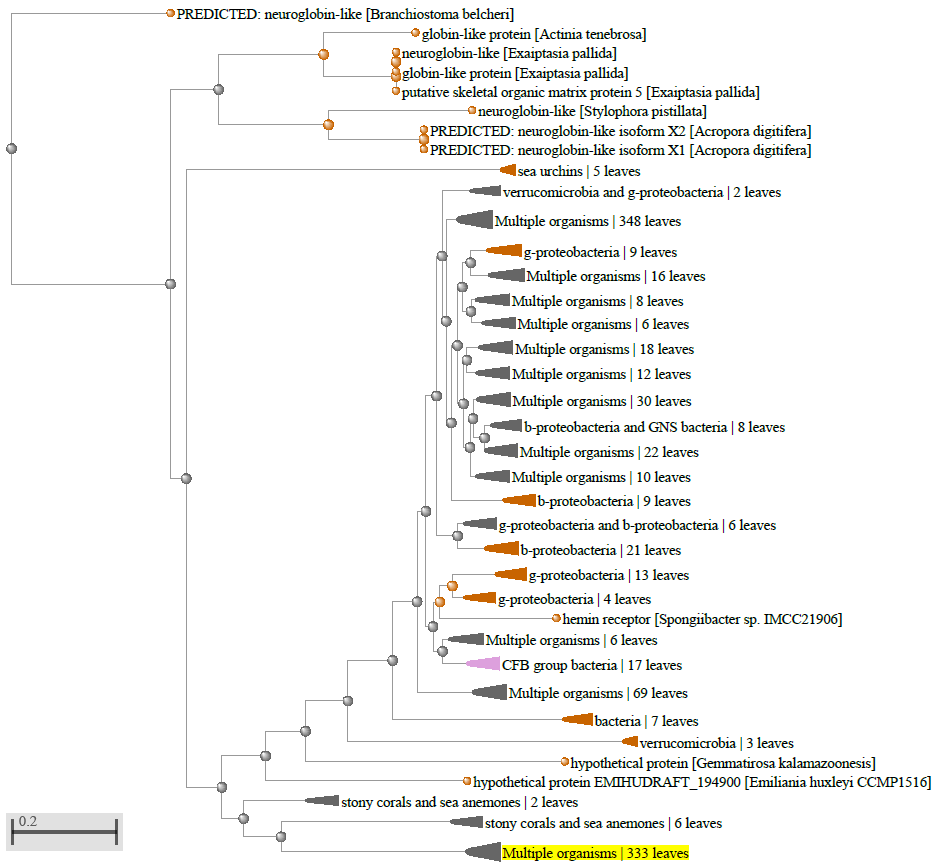
Diagram Tree of Neuroglobin

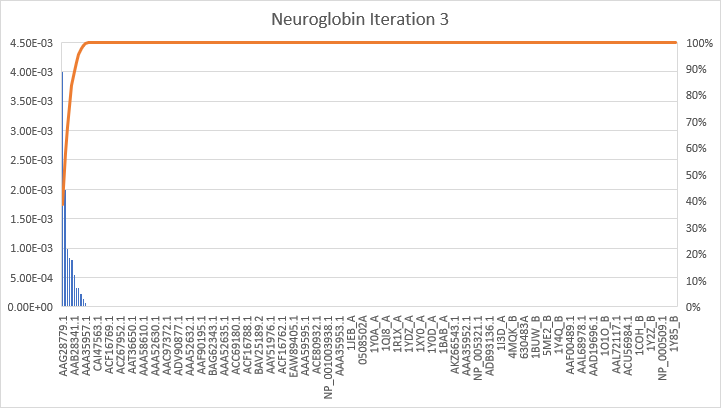
**  **

**Analysis:**

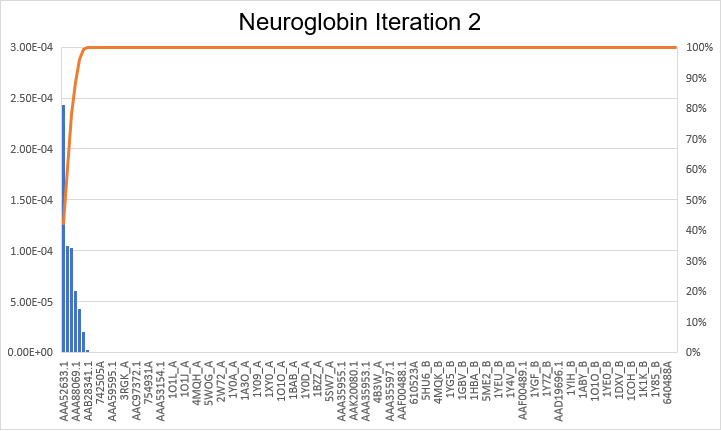
****

**Third Iteration Neuroglobin Tree:**

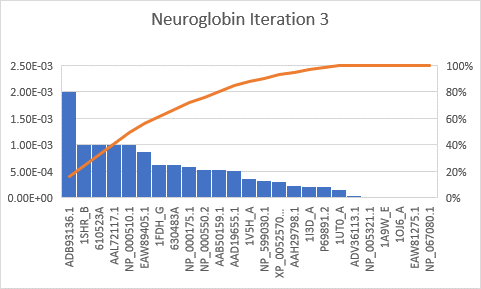




**Note**: Accession is defined in X-axis and Y-axis has the E values defined



**Note**: Accession is defined in X-axis and Y-axis has the E values defined



**Note**: Accession is defined in X-axis and Y-axis has the E values defined

I plotted the Histogram; you can notice the different curve ranges

**PSSM:**

The Resultant matrix available as .txt file

****

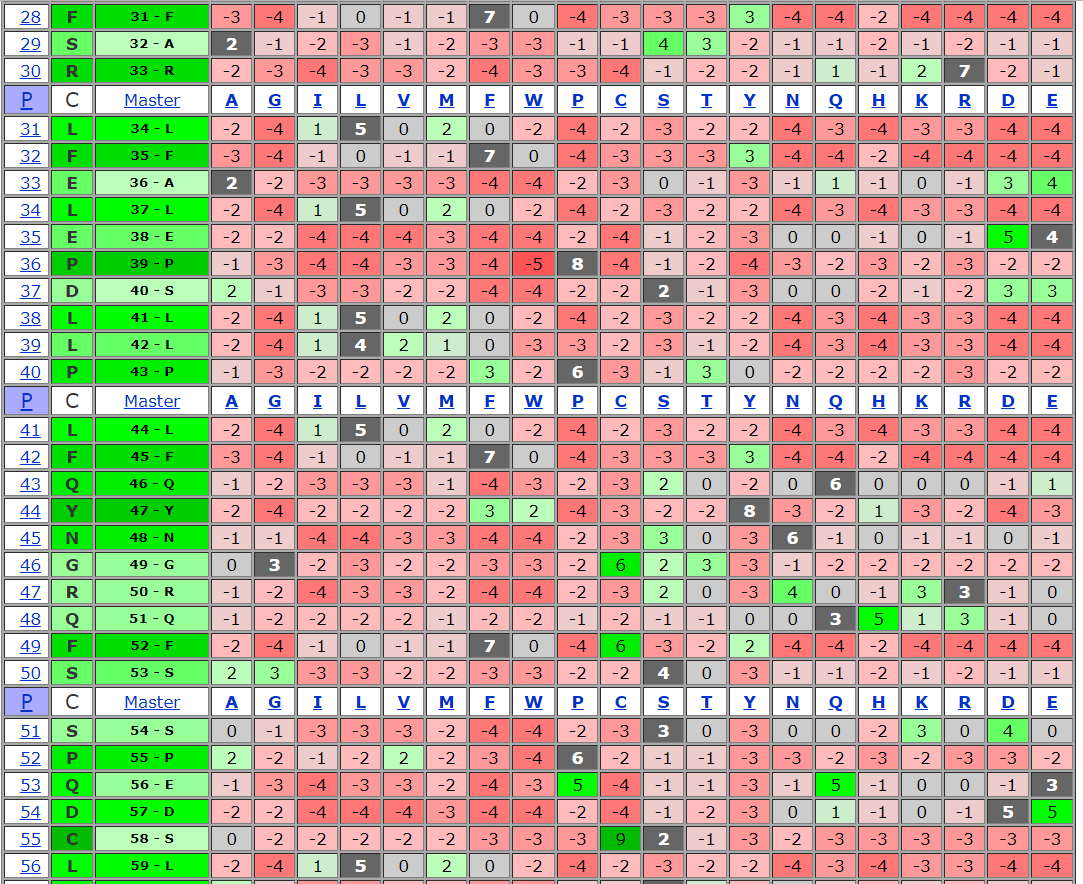
****



PSSM: cd08920

Hot spot Is the important residue. Altering the green spots will cause disease







**Alignment:**

**2nd- iteration – Multiple Alignment**

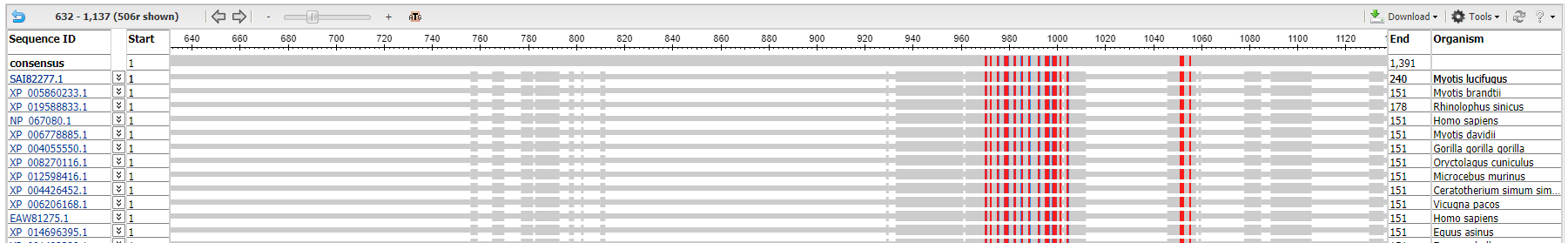
[**https://www.ncbi.nlm.nih.gov/projects/msaviewer/?key=4WhLpcZqCa\_FRDeg5lUBps9mcqe7CveZSTPHwDEhwPwlHc4C847SSX65W589duRWHg9hri\_CAKongTznCpAnsRmCMIM4rAaEG704ijKOM5Mm**](https://www.ncbi.nlm.nih.gov/projects/msaviewer/?key=4WhLpcZqCa_FRDeg5lUBps9mcqe7CveZSTPHwDEhwPwlHc4C847SSX65W589duRWHg9hri_CAKongTznCpAnsRmCMIM4rAaEG704ijKOM5Mm)

**or**

[**https://goo.gl/kggzPc**](https://goo.gl/kggzPc)

**3rd- iteration – Multiple Alignment**

[**https://goo.gl/1YCMY2**](https://goo.gl/1YCMY2)

 **2nd- iteration – Multiple Alignment**

**Cytochromes P450**

**Alignment Result**:

Blast Result:

First Iteration Second Iteration Third Iteration

Blast Result in Excel format:

First Iteration Second Iteration Third Iteration

Cytochromes P450 Fasta file:



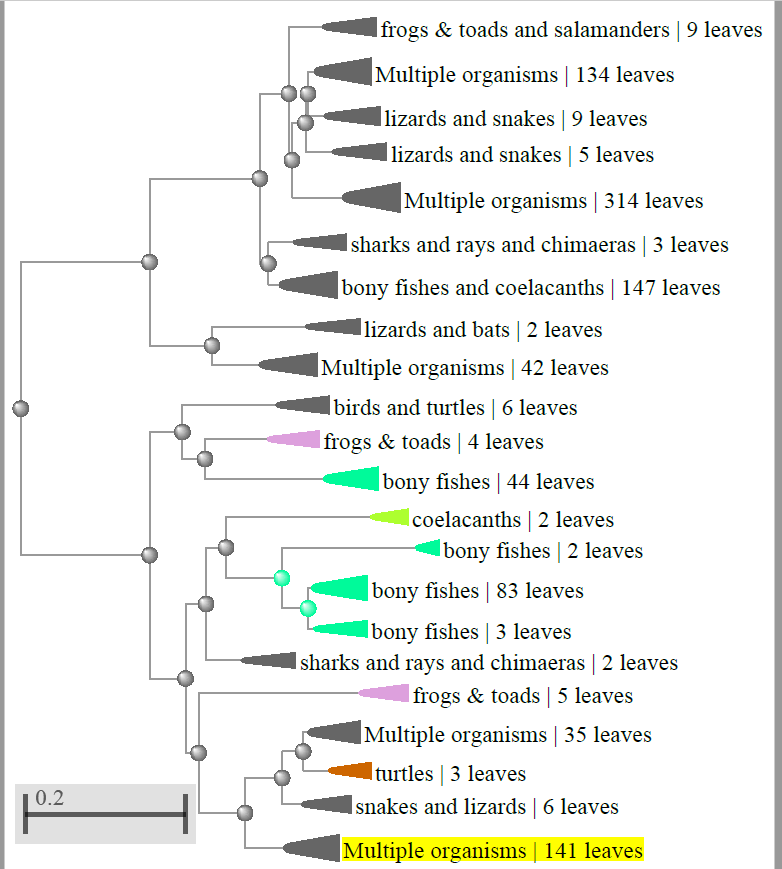
Diagram Tree of Cytochromes P450

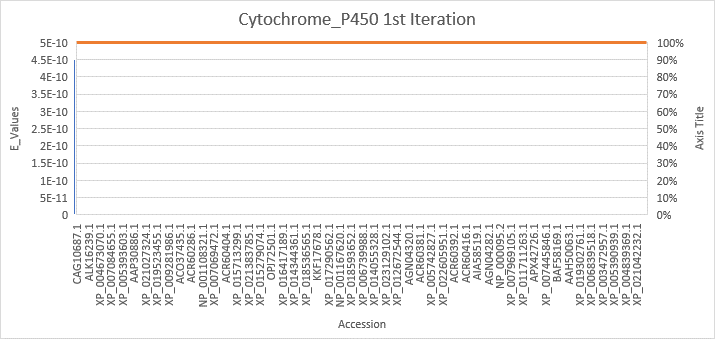
First Iteration Second Iteration Third Iteration

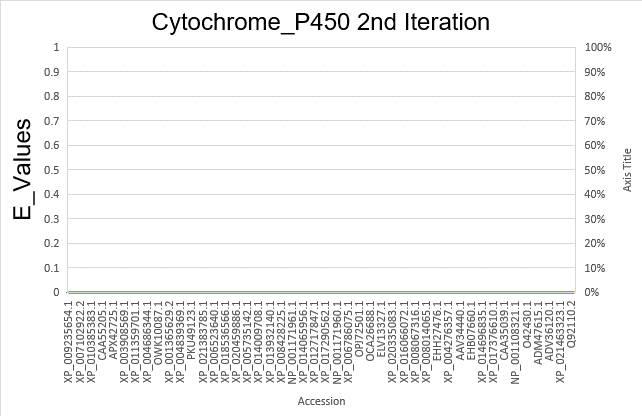
**  **

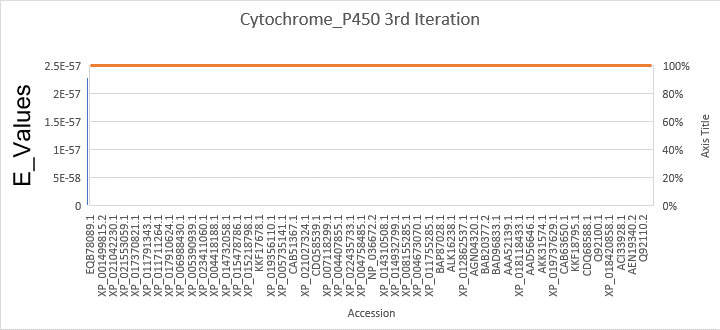
Analysis:











**Note**: Accession is defined in X-axis and Y-axis has the E values defined

PSSM:



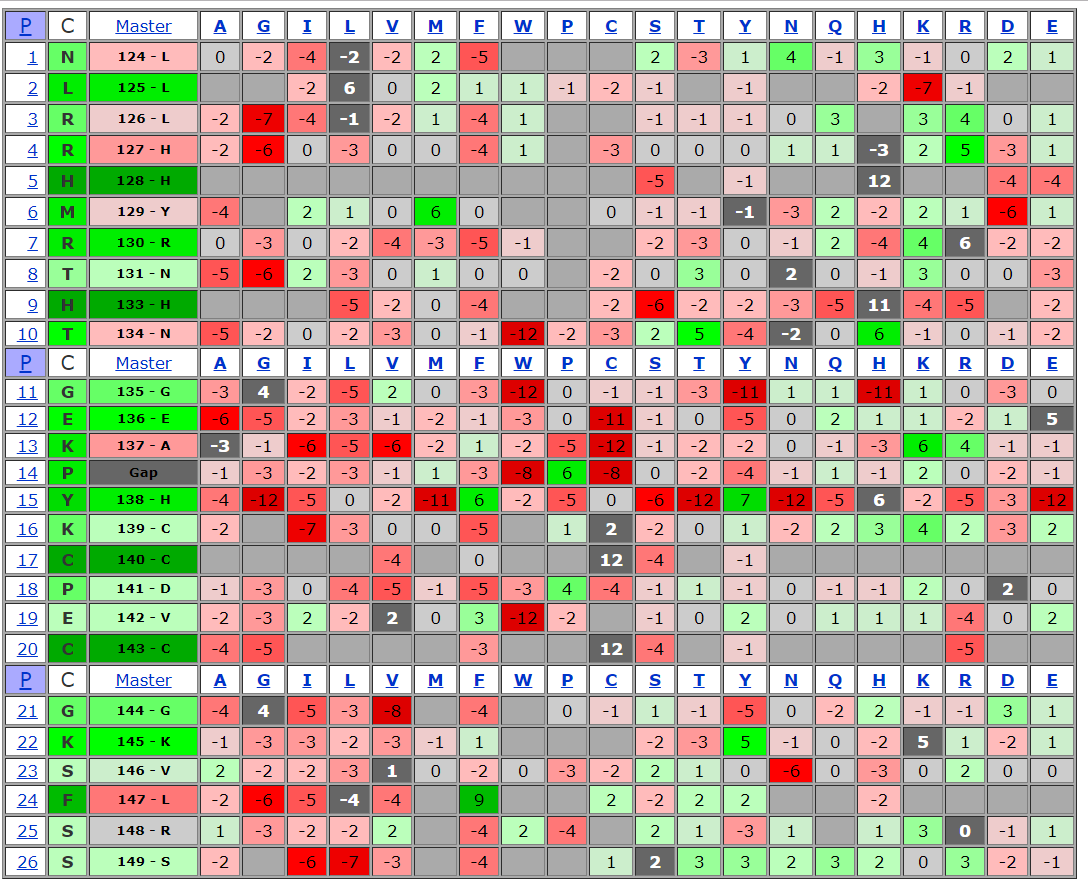
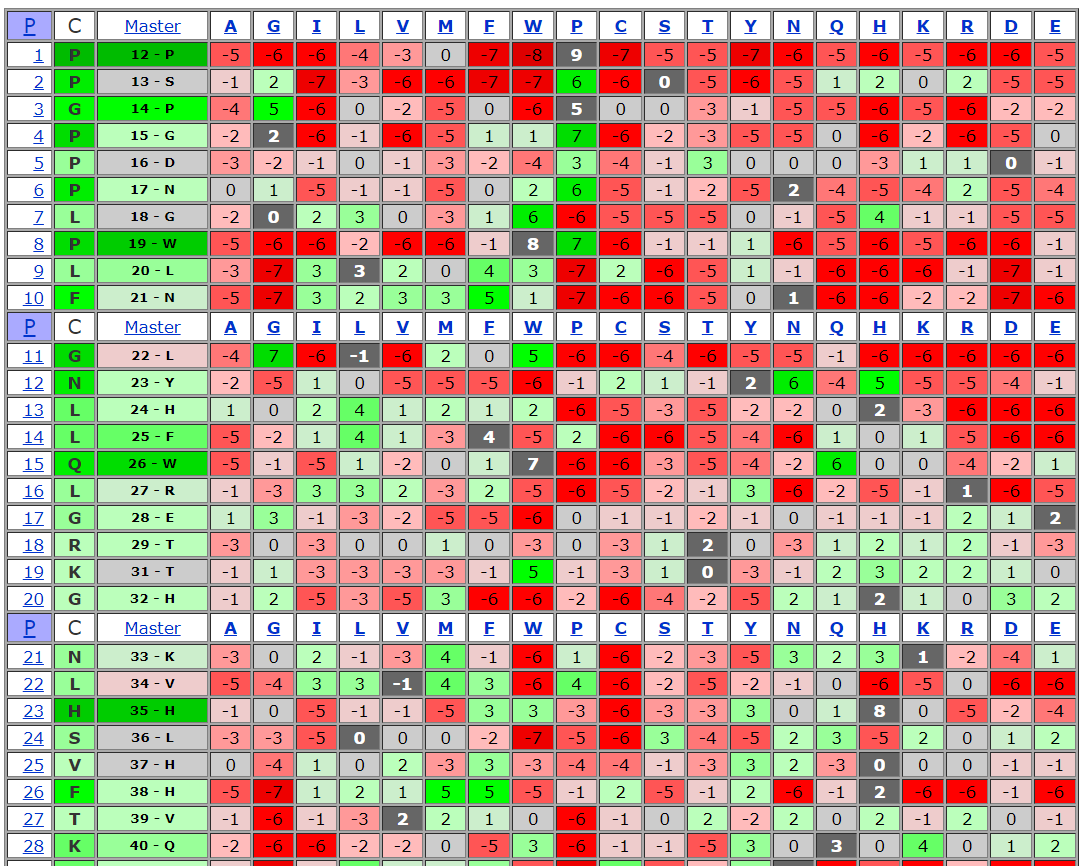
Matrix View

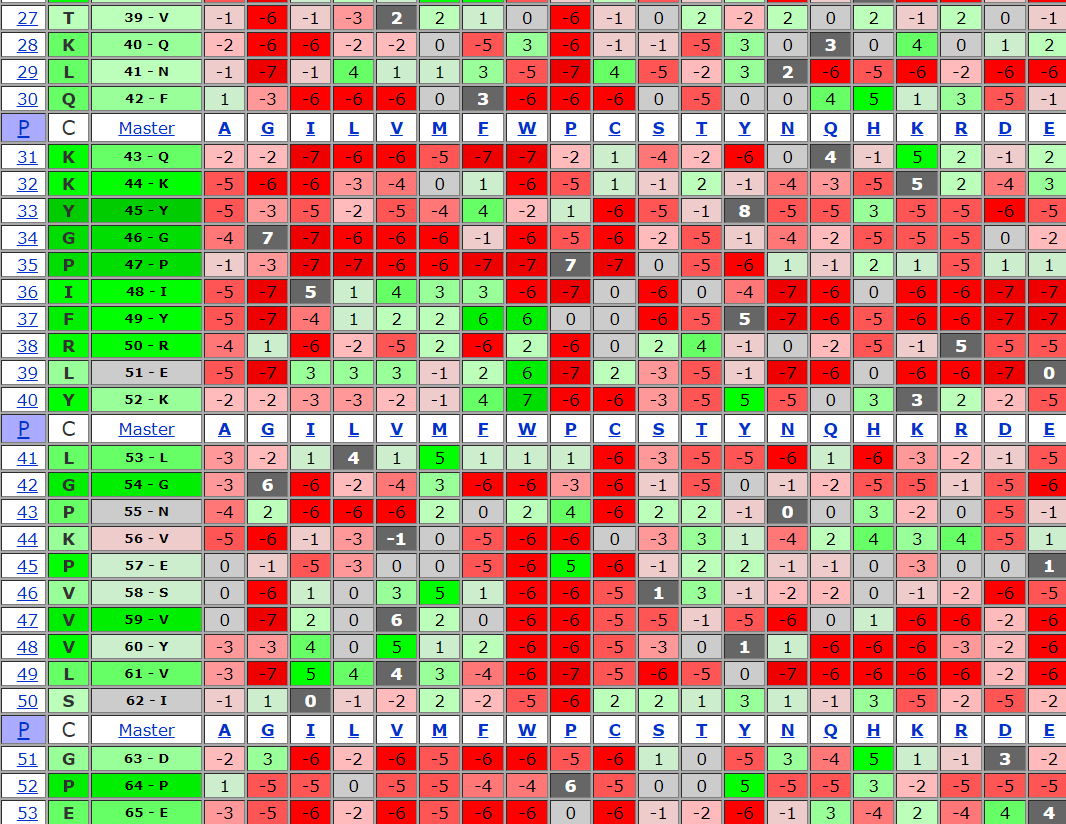


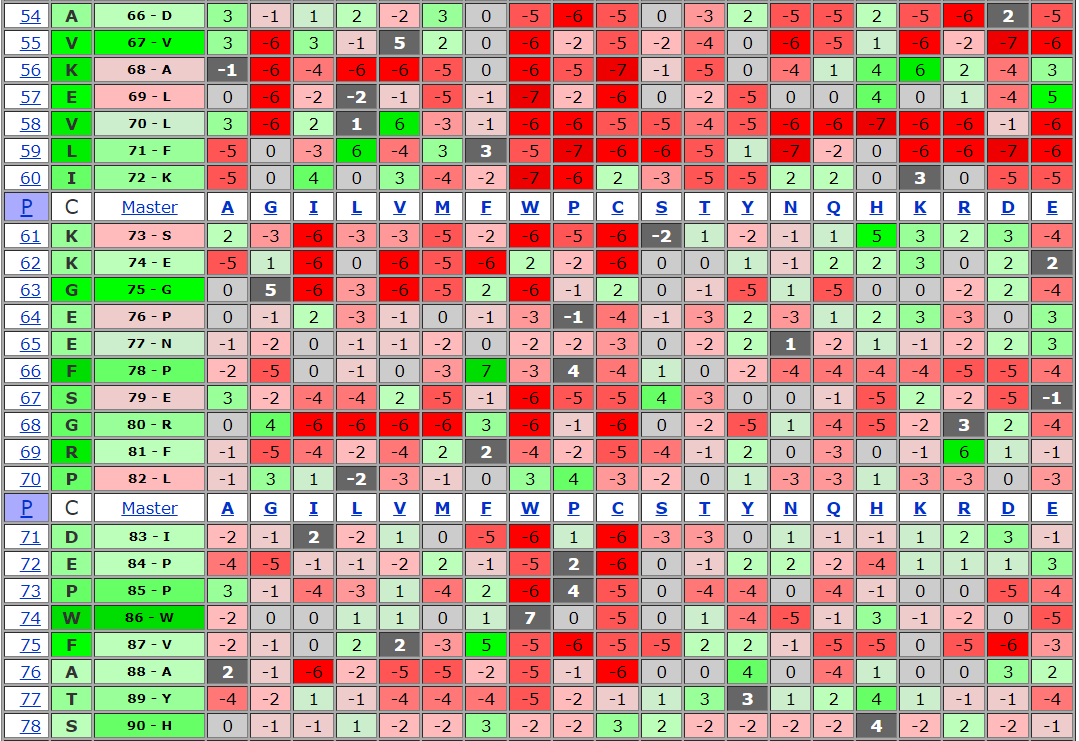


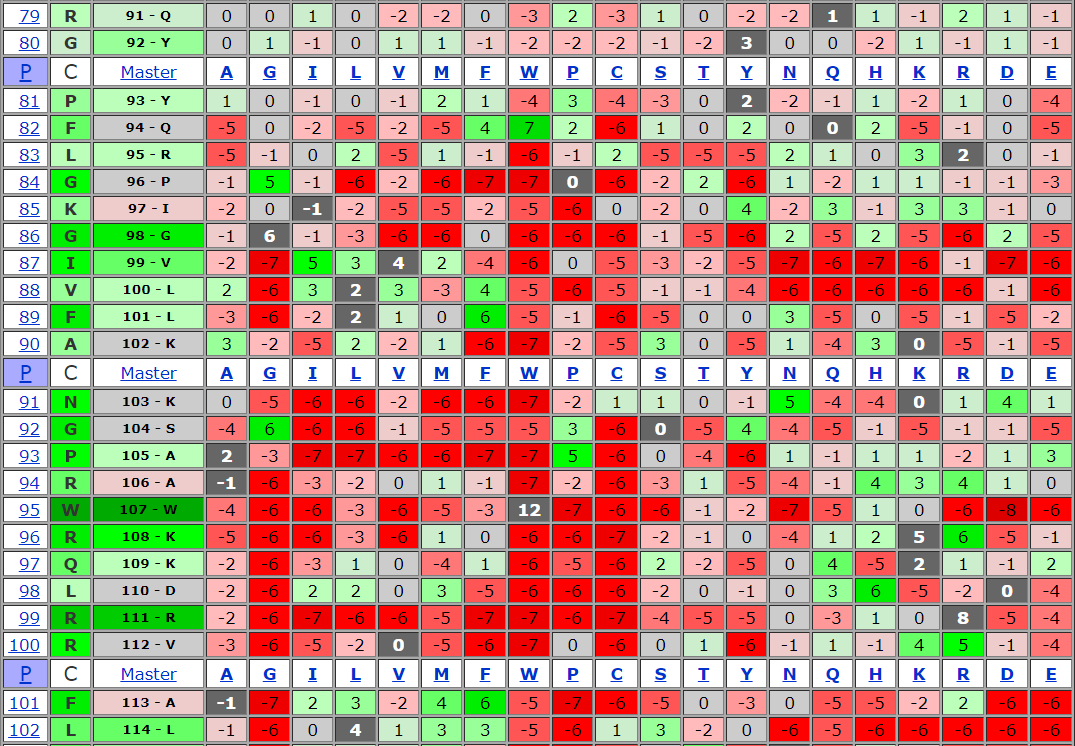
PSSM ID : 306555

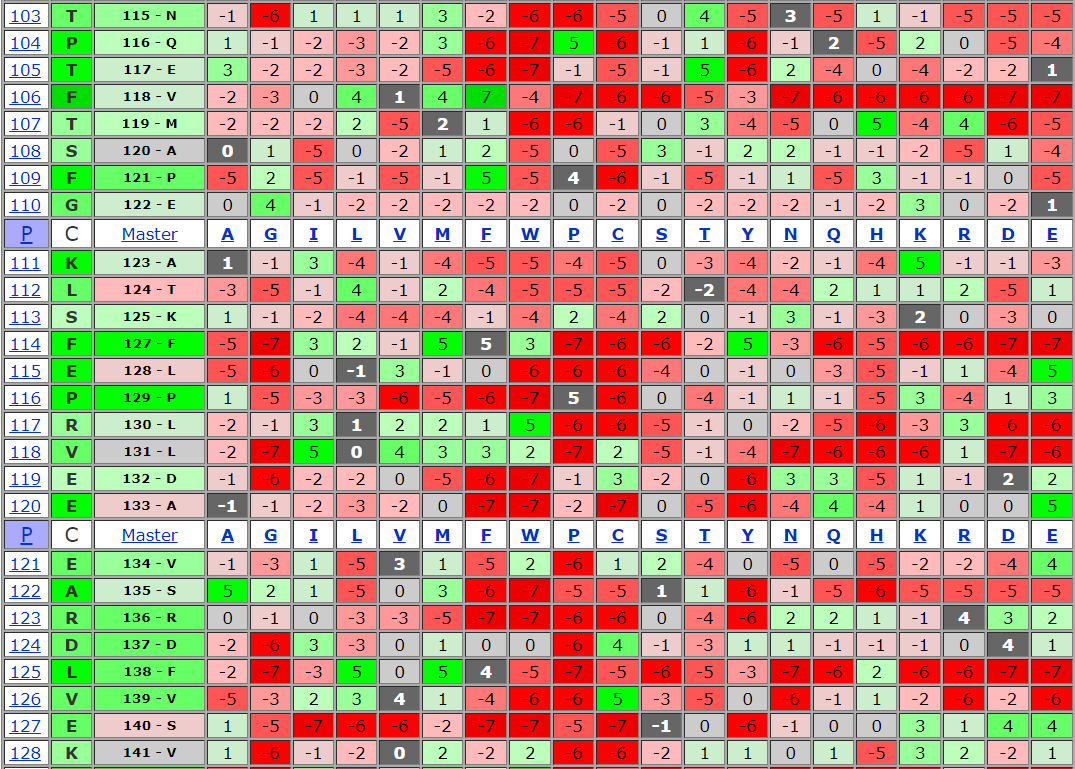
Hot spot Is the important residue. Altering the green spots will cause disease

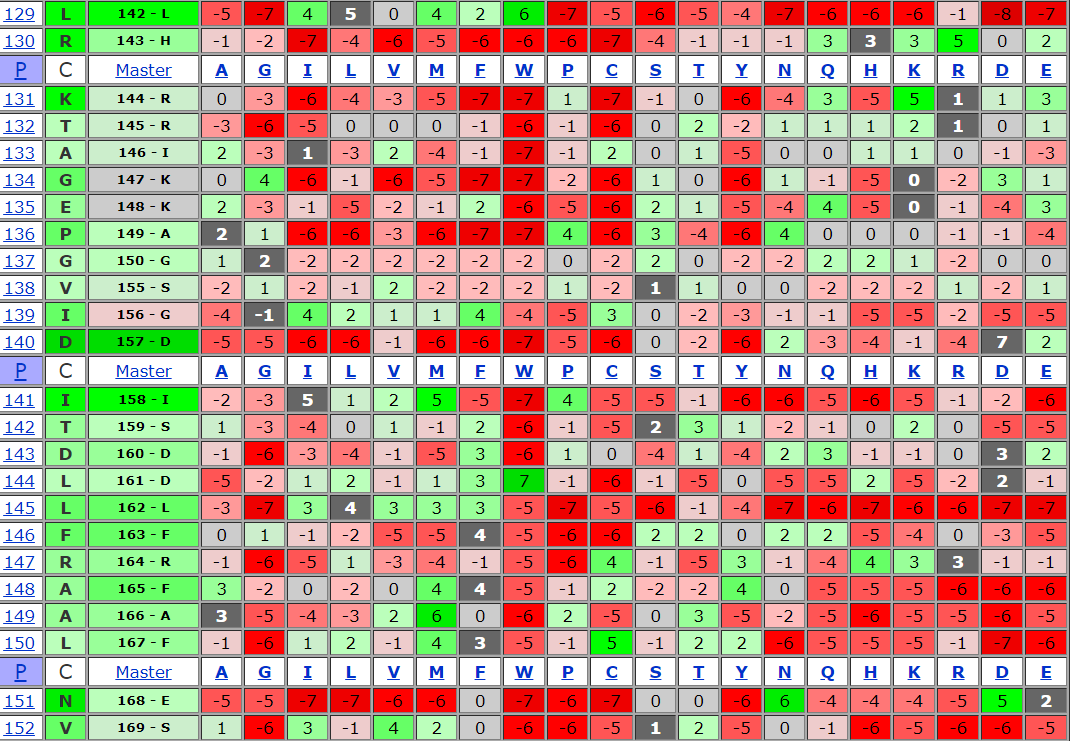


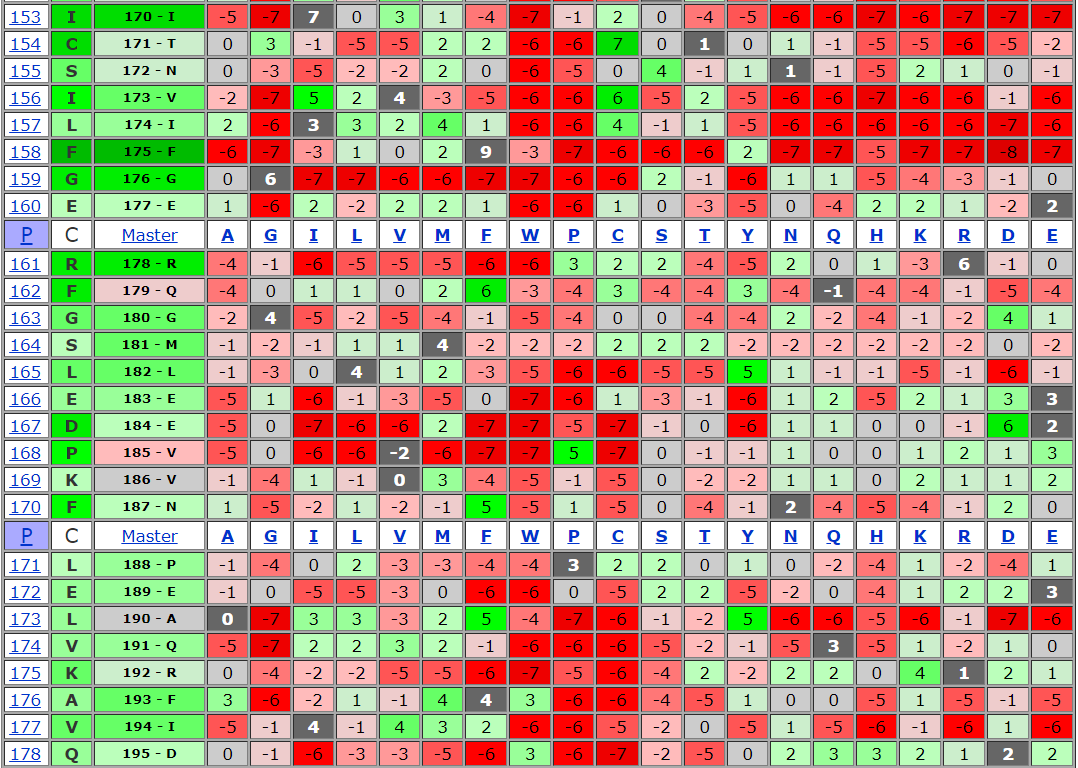


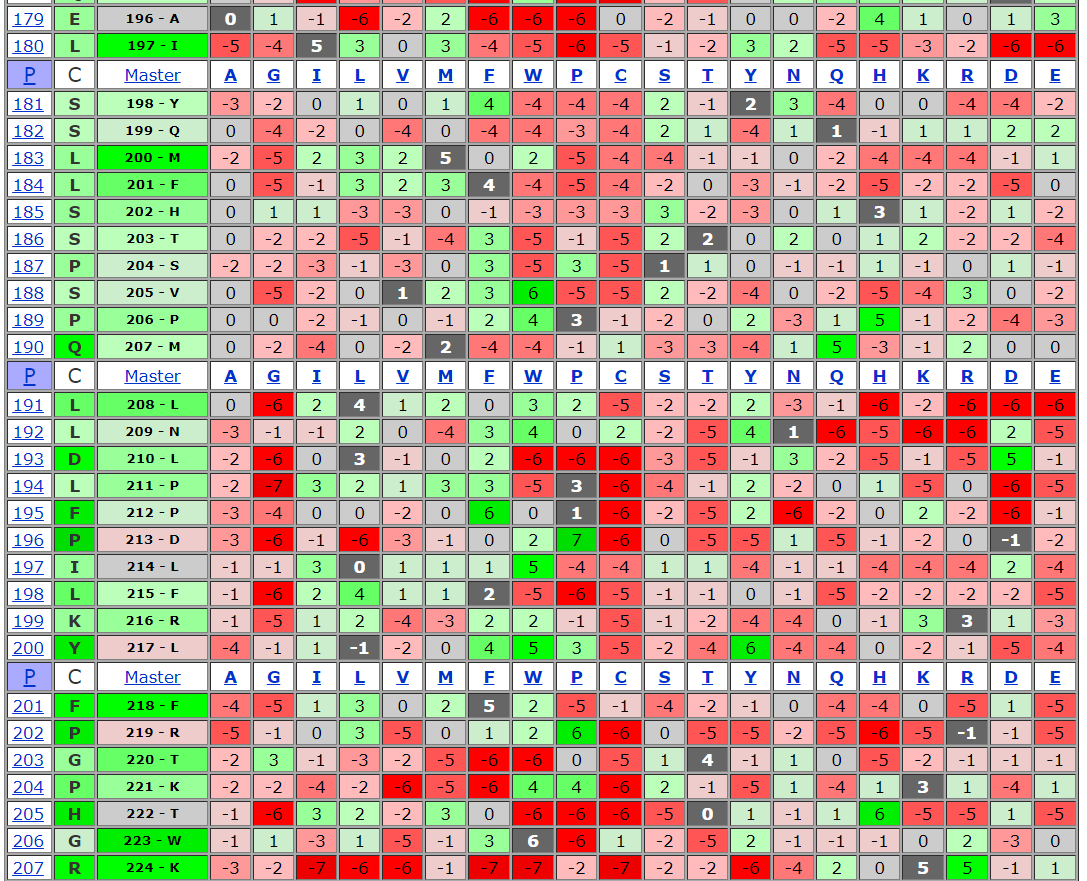


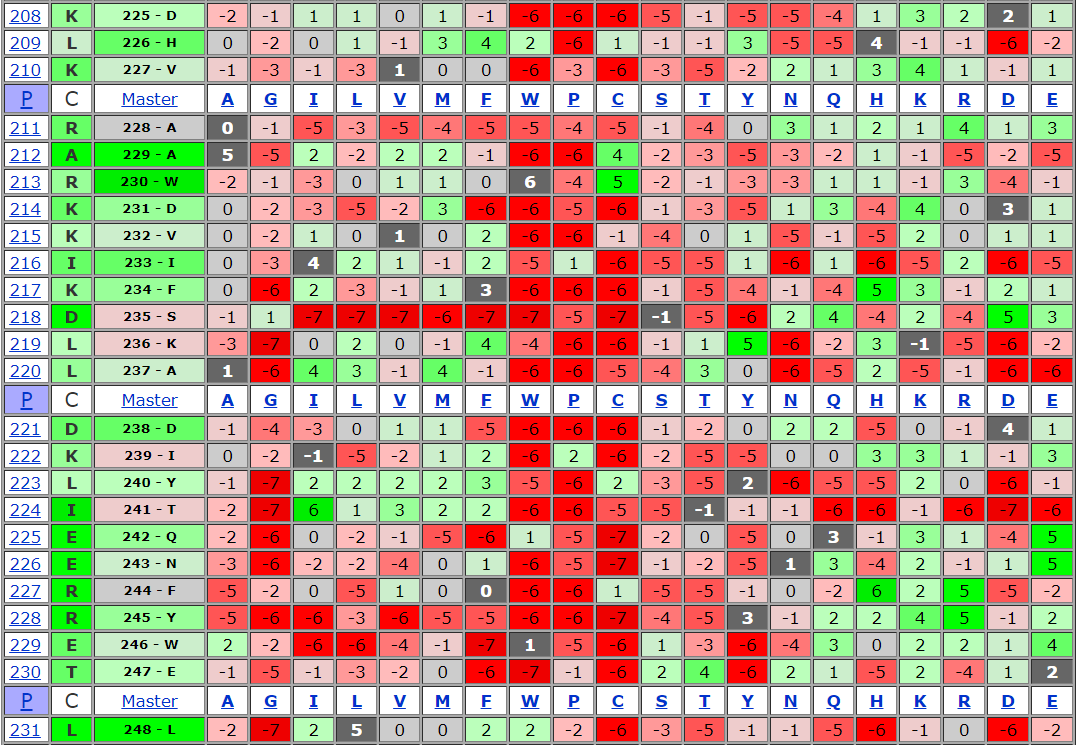


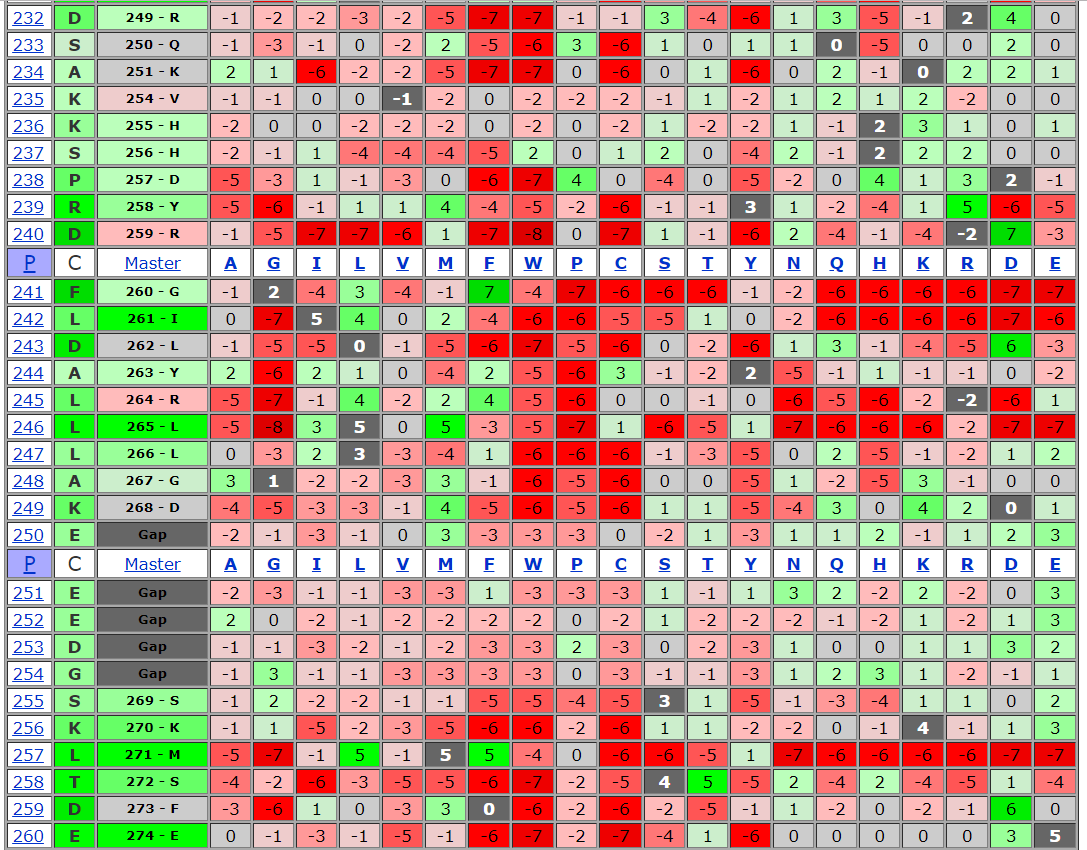




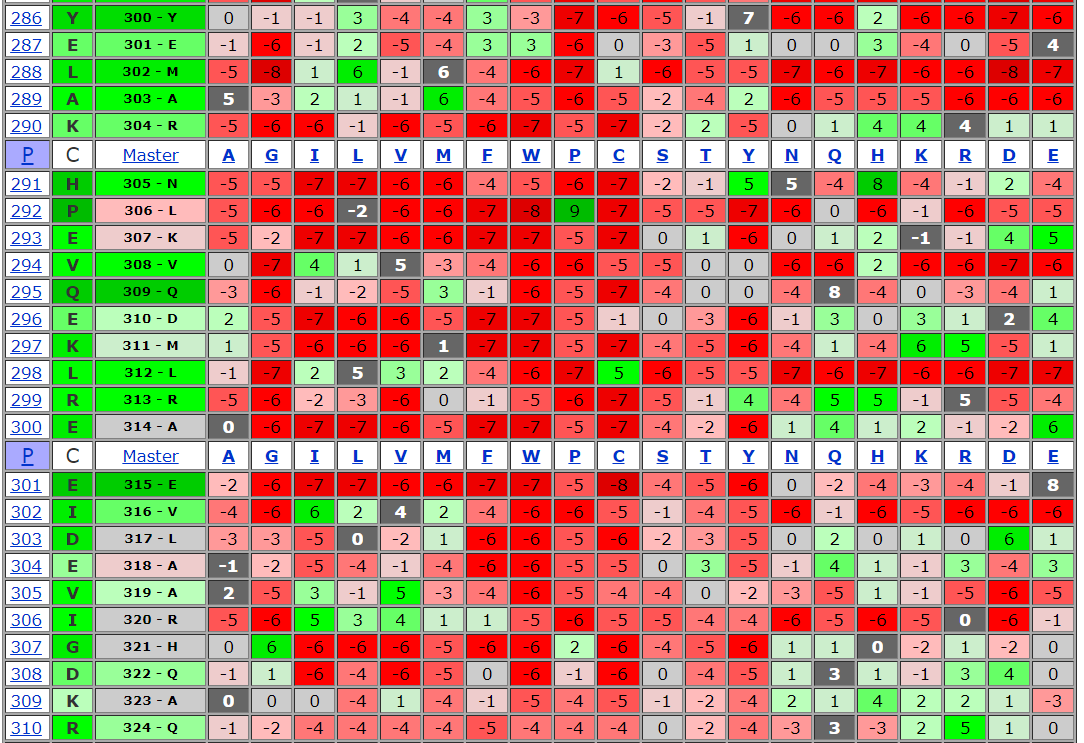


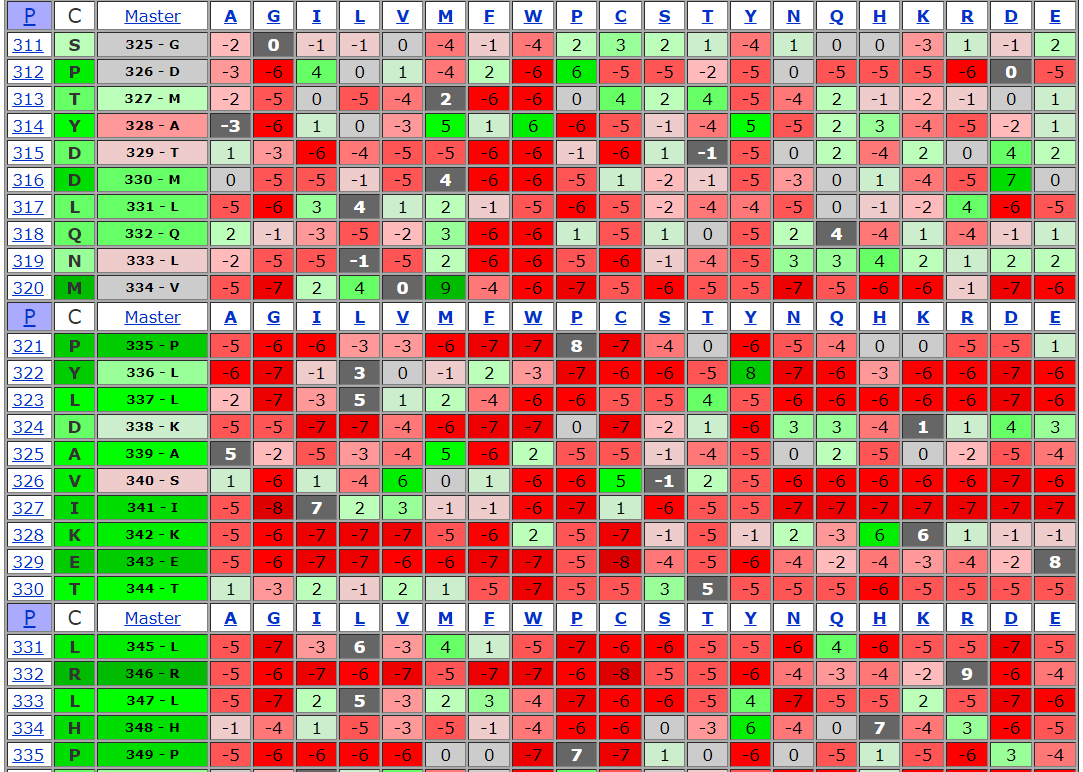


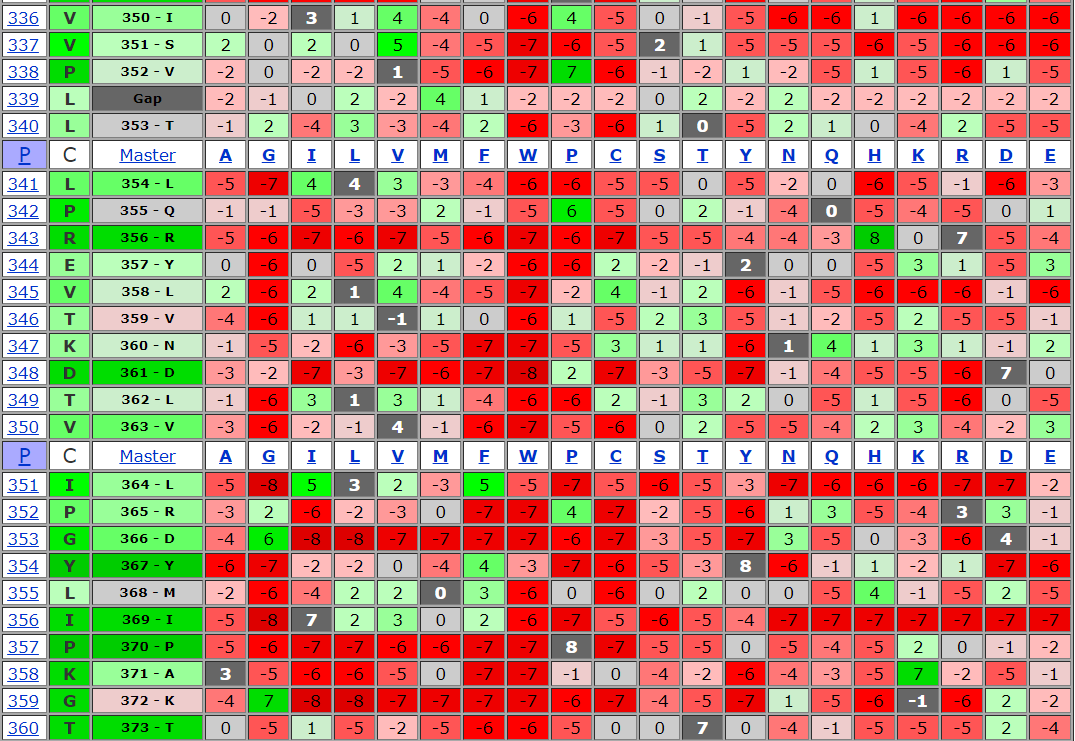


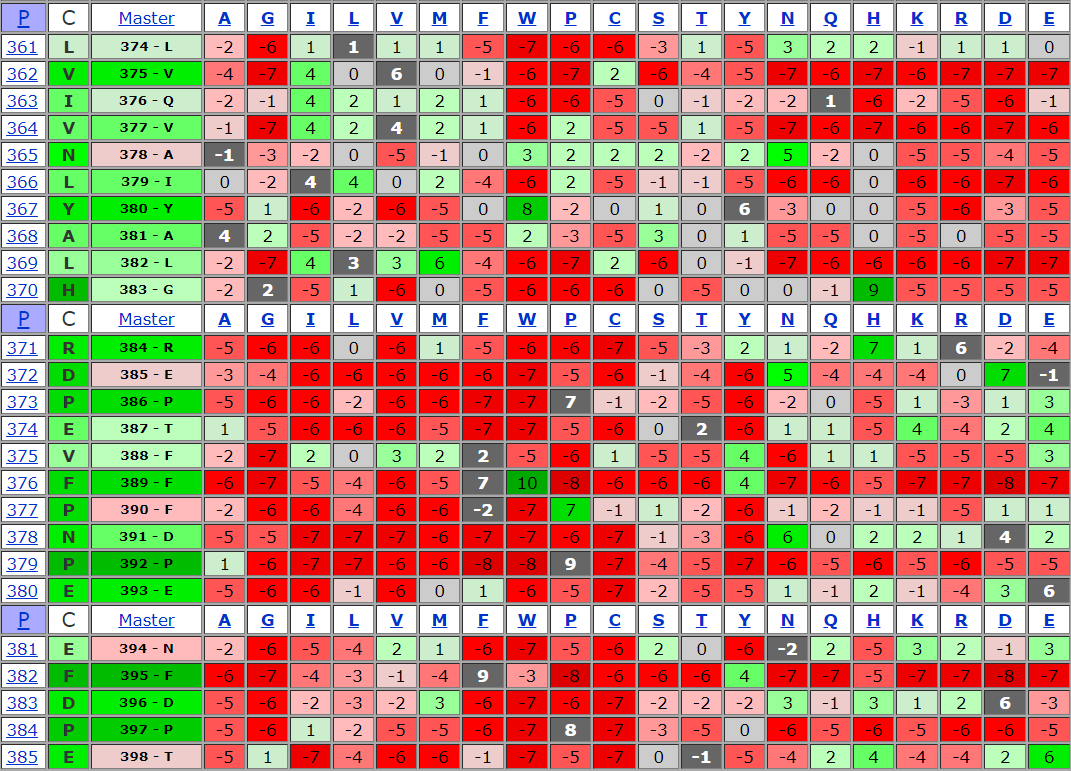


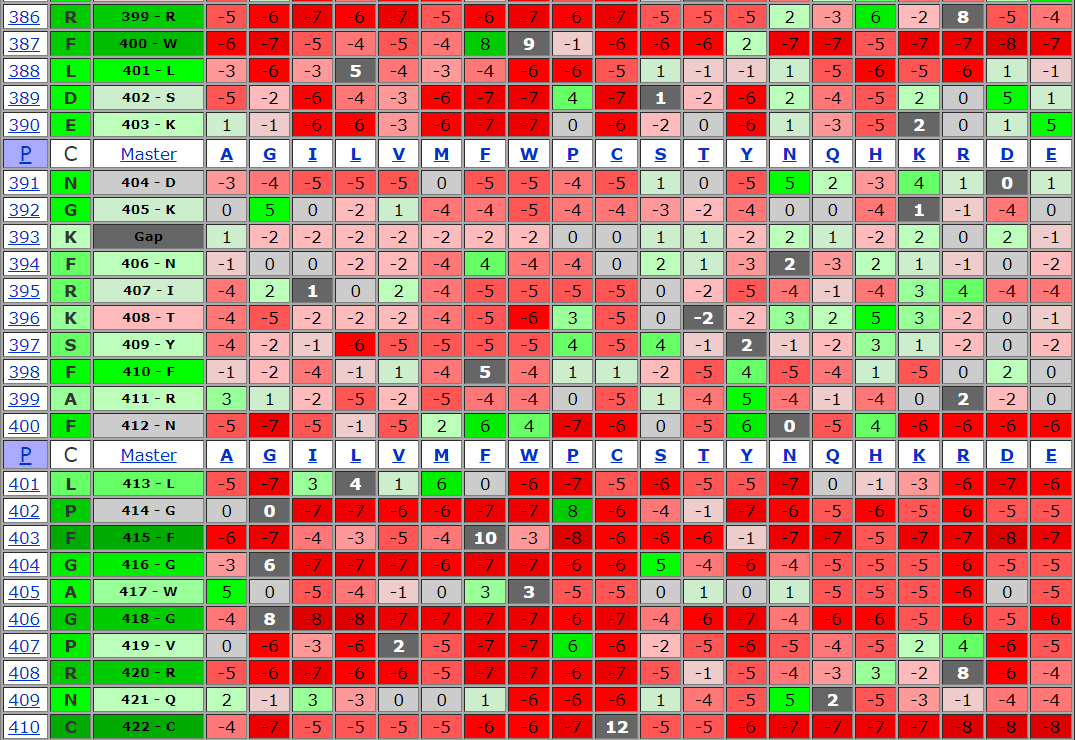


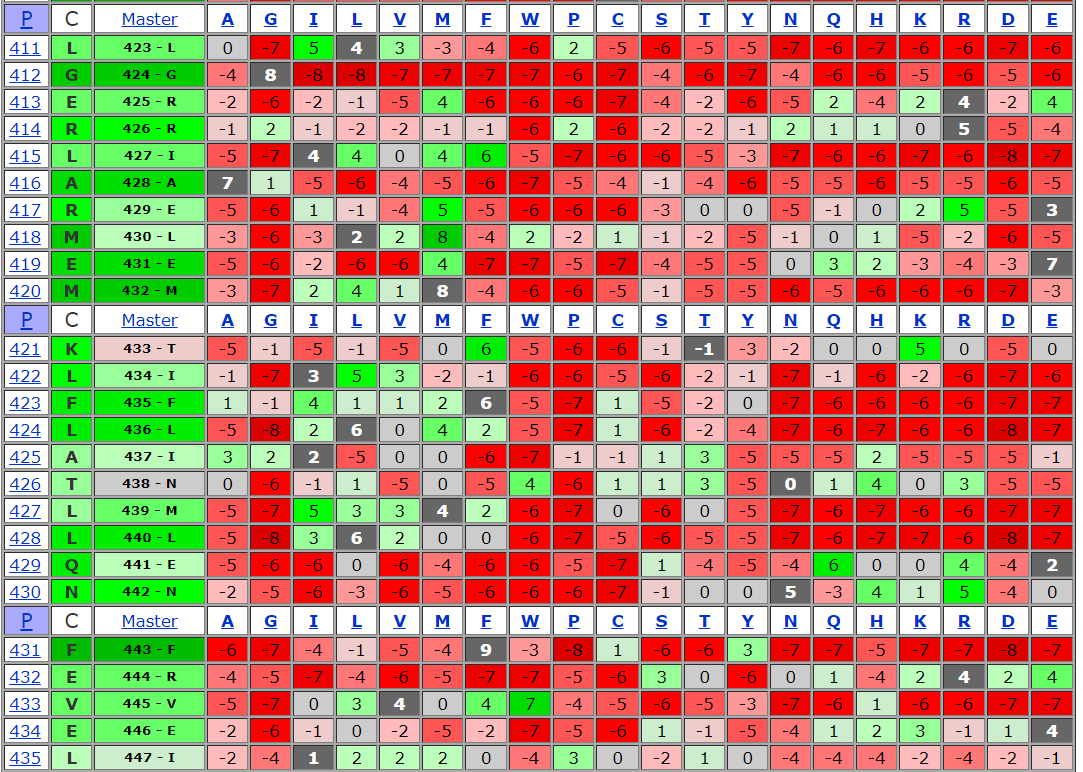












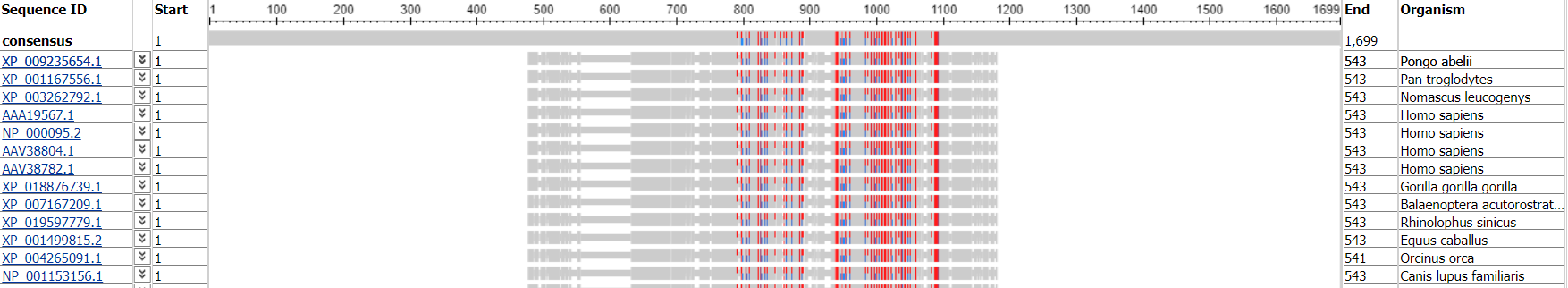


**Multiple Alignment:**

[**https://www.ncbi.nlm.nih.gov/projects/msaviewer/?key=31Z1m\_hUN5H7egme2Gs\_mPFYTJmFNMn9LlegpFZFp5hCealmlOq1LvhA3SmQv3Gf9inhEK98gBSnP7xZii6nD5k8sD24EoY6mwO4NLIwsy2m**](https://www.ncbi.nlm.nih.gov/projects/msaviewer/?key=31Z1m_hUN5H7egme2Gs_mPFYTJmFNMn9LlegpFZFp5hCealmlOq1LvhA3SmQv3Gf9inhEK98gBSnP7xZii6nD5k8sD24EoY6mwO4NLIwsy2m)

**or**

[**https://goo.gl/A2wiqb**](https://goo.gl/A2wiqb)



**C2H2 Zinc Fingers**

**Alignment Result**:

Blast Result:

First Iteration Second Iteration

Blast Result in Excel format:

First Iteration Second Iteration

C2H2 Zinc Fingers Fasta file:



Diagram Tree of C2H2 Zinc Fingers

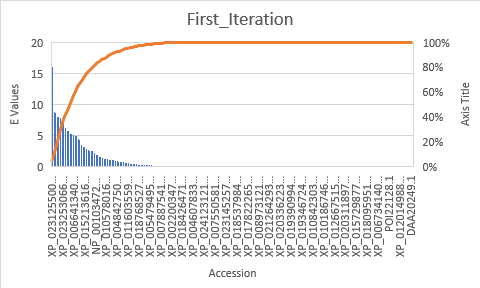
** **

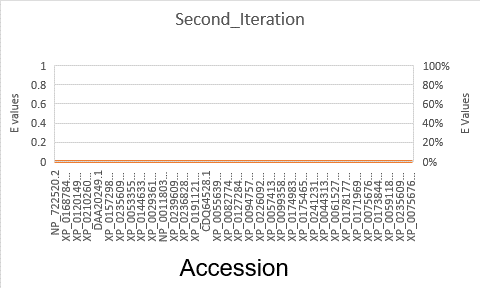
**Analysis**

****

**Diagram Tree of C2H2 Zinc Fingers:**

****





**PSSM**

The Matrix Value:

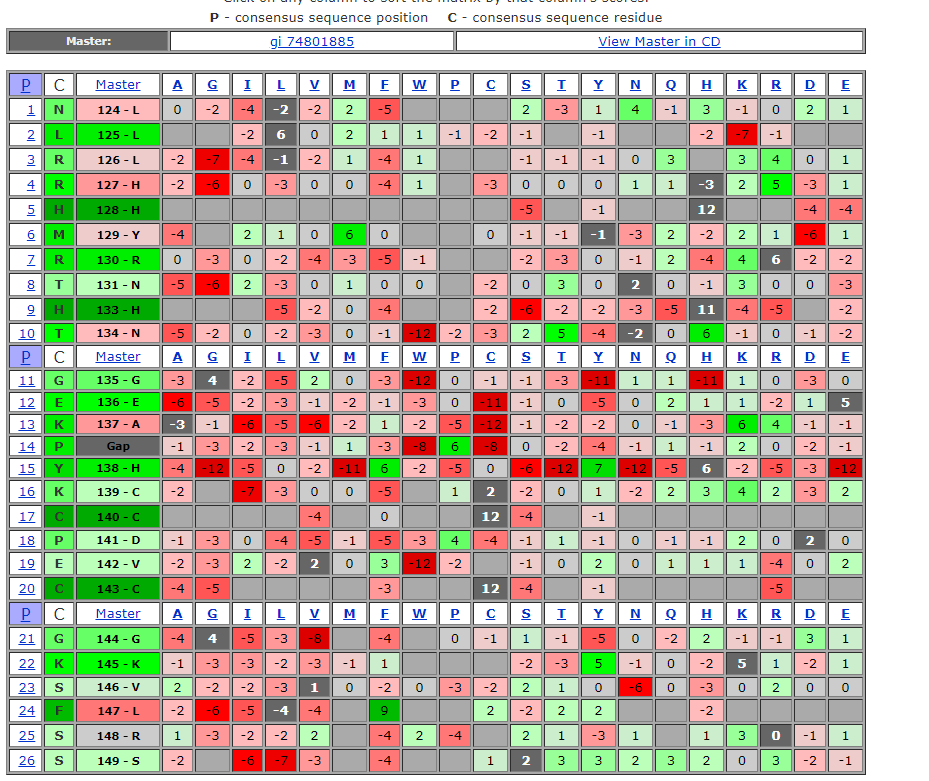
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****

Hot spot is the important residue. Altering the green spots will cause disease

PSSM id is 316026





**Multiple Alignment:**

[**https://www.ncbi.nlm.nih.gov/projects/msaviewer/?key=LKWGaAunxGIIifptK5jMawKrv2p2xzpyotgsK9rKKxfO9iXpGGU5oWxbSWSCZEBE9DbIyoamqc6O5ZWDo\_SO1bDmmeeRyK\_gstmR7pvqmveP**](https://www.ncbi.nlm.nih.gov/projects/msaviewer/?key=LKWGaAunxGIIifptK5jMawKrv2p2xzpyotgsK9rKKxfO9iXpGGU5oWxbSWSCZEBE9DbIyoamqc6O5ZWDo_SO1bDmmeeRyK_gstmR7pvqmveP)

**or**

[**https://goo.gl/p2F2sM**](https://goo.gl/p2F2sM)

