Supplementary Table S4. Amino acid classification schemes used in this study. Within each classification scheme, numbers indicate amino acid groups. Changes within a given numerical group are considered conservative, and changes between groups are considered radical. (The specific number used is arbitrary and has to relationship to that group number under a different classification scheme.) Final four columns list some amino acid properties related to the classification schemes.

<table>
<thead>
<tr>
<th>Amino acid</th>
<th>Radical vs. Conservative classification schemes</th>
<th>Amino acid properties</th>
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<td></td>
<td>Miyata et al. (MY)</td>
<td>Polarity</td>
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