Table 1. CYTOKINE & CHEMOKINE PRODUCTION SCHEDULE

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<tr>
<th>Species</th>
<th>Gene</th>
<th>Expression in CHO cells</th>
<th>Green in expression vector</th>
<th>Stable Cell Line</th>
<th>Physical purification</th>
<th>MAb in genebanks or labs</th>
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<tr>
<td>Ruminants</td>
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Table 2. CELL SURFACE MOLECULE PRODUCTION SCHEDULE

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<th>Stable Cell Line</th>
<th>Physical purification</th>
<th>MAb in genebanks or labs</th>
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Table 3. MONOCLONAL ANTIBODY PRODUCTION SCHEDULE

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Abstract

The gene cloning phase of the project was completed during the early part of Year 1 (Spring 2008). It is anticipated that the Network cloned over 200 unique expressed cDNA sequences for cytokines, chemokines and cell surface molecules in each of the protein expression systems. The genes for cell surface molecules and chemokines are being expressed at Kingfisher Biotech (KF) in yeast and in CHO cells. This project was funded by USDA CSREES NRI-CPG project # 0206006. Table 1. Cytokine and Chemokine Production Schedule Year 3 in the species labs for bovine, equine, chicken and swine. Table 2. Cell Surface Molecule Production Schedule Year 3 in the species labs for bovine, equine, chicken and swine. Table 3. Monoclonal Antibody Production Schedule Year 3 in the species labs for bovine, equine, chicken and swine.