Materials List for:
Budding Yeast Protein Extraction and Purification for the Study of Function, Interactions, and Post-translational Modifications

Eva Paige Szymanski, Oliver Kerscher

1 Integrated Science Center, Biology Department, The College of William & Mary

Correspondence to: Oliver Kerscher at opkers@wm.edu

URL: http://www.jove.com/video/50921
DOI: doi:10.3791/50921

<table>
<thead>
<tr>
<th>Name</th>
<th>Company</th>
<th>Catalog Number</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Omni Bead Ruptor 24</td>
<td>Omni International</td>
<td>19-010</td>
<td></td>
</tr>
<tr>
<td>Yeast ORF strain in BG1805</td>
<td>ThermoScientific</td>
<td>YSC3869</td>
<td>GAL+ yeast strain that can be used for induction and extraction</td>
</tr>
<tr>
<td>pYES2.1 TOPO vector</td>
<td>Life Technologies</td>
<td>K4150-01</td>
<td>GAL+ yeast strain that can be used for induction and extraction; contains a V5/6xHIS tag</td>
</tr>
<tr>
<td>Halt Protease Inhibitor Single-Use Cocktail (100x)</td>
<td>Thermo Scientific</td>
<td>1860932</td>
<td></td>
</tr>
<tr>
<td>2.0 ml Skirted Tube with Tethered Screw Cap</td>
<td>BioExpress</td>
<td>C-3369-3</td>
<td>Make sure that the tube properly fits in the bead ruptor</td>
</tr>
<tr>
<td>Glass beads, acid-washed, 425-600 µm (30-40 US sieve)</td>
<td>Sigma-Aldrich</td>
<td>G8772</td>
<td></td>
</tr>
<tr>
<td>Corning Costar Spin-X centrifuge tube filters</td>
<td>Sigma-Aldrich</td>
<td>CLS8161</td>
<td>Use for additional filtering of clarified lysate</td>
</tr>
<tr>
<td>TALON Metal Affinity Resin</td>
<td>Clontech</td>
<td>635502</td>
<td>For the purification of 6xHIS tagged proteins</td>
</tr>
<tr>
<td>NuPAGE LDS Sample Buffer (4x)</td>
<td>Life Technologies</td>
<td>NP0007</td>
<td>To prepare and/or elute samples prior to SDS-PAGE and Western Blotting</td>
</tr>
<tr>
<td>NuPAGE 4-12% Bis-Tris Gel</td>
<td>Life Technologies</td>
<td>NP0321BOX</td>
<td>Precast gels often used for SDS-PAGE prior to Western Blotting</td>
</tr>
<tr>
<td>Simply Blue</td>
<td>Life Technologies</td>
<td>#LC6060</td>
<td>Protein gel stain</td>
</tr>
<tr>
<td>Mammalian Lysis Buffer</td>
<td>Promega</td>
<td>G9381</td>
<td>Alternative commercial lysis buffer</td>
</tr>
<tr>
<td>Anti-V5 agarose</td>
<td>Sigma</td>
<td>A7345</td>
<td>Method of immunoprecipitation</td>
</tr>
<tr>
<td>ECL</td>
<td>Millipore</td>
<td>WBKL S0 050</td>
<td></td>
</tr>
<tr>
<td>PVDF membrane</td>
<td>Millipore</td>
<td>IPVH00010</td>
<td></td>
</tr>
<tr>
<td>BIS-TRIS gels</td>
<td>Life Technologies</td>
<td>NP0321BOX</td>
<td></td>
</tr>
<tr>
<td>anti-myc antibody</td>
<td>Covance</td>
<td>mms-150R</td>
<td></td>
</tr>
<tr>
<td>secondary antibody</td>
<td>Abcam</td>
<td>ab97040</td>
<td>Goat pAb to mouse IgG (HRP)</td>
</tr>
</tbody>
</table>