

Materials List for:

# Transgenic Rodent Assay for Quantifying Male Germ Cell Mutant Frequency

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## Materials

| Name  | Company              | Catalog Number | Comments  |
|---|----------------------|----------------|---|
| MutaMouse   | Covance              | -              |   |
| <i>E. coli</i> (lacZ'/galE')                        | Covance              | -              | See reference 25 in manuscript  |
| Chloroform  | Caledon              | 3001-2-40      |   |
| Dulbecco's phosphate-buffered saline (D-PBS)        | Gibco                | 14190-250      |   |
| Ethylenediaminetetraacetic acid (EDTA), 0.5 M, pH 8 | Sigma-Aldrich        | 03690 FLUKA    |   |
| Isoamyl alcohol                                     | Caledon              | 2/10/7900      |   |
| Lennon LB broth base                                | Invitrogen           | 12780-029      |   |
| Stainless steel mesh filter                         | Sigma-Aldrich        | S3770          |   |
| Transpack packaging extract                         | Agilent Technologies | 200220         |   |
| β-mercaptoethanol                                   | Sigma-Aldrich        | M3148          |   |
| Ethyl alcohol, anhydrous (EtOH)                     | Commercial Alcohols  | -              |   |
| Ampicilin   | Gibco                | 11593-027      | prepare 20 mg/ml in dH <sub>2</sub> O   |
| Kanamycin   | Gibco                | 11815-024      | prepare 5 mg/ml in dH <sub>2</sub> O  |
| Phenol  | Invitrogen           | 15509-097      | Saturate in 0.1 M Tris-HCl as per manufacturers direction   |
| Phenyl-β-D-galactopyranoside (P-Gal)                | Sigma-Aldrich        | P6501          | dissolve 3 g per 10 ml of dimethylformamide   |
| Proteinase K  | Invitrogen           | 25530-031      | prepare 60 mg/ml solution dH <sub>2</sub> O just before use, 20 μl per sample   |
| Sodium acetate (NaAc)                               | Fisher Scientific    | BP333-500      | prepare 3 M solution, pH 5.2  |
| Sodium dodecyl sulfate (SDS)                        | Sigma-Aldrich        | L4390          | prepare 10% solution in dH <sub>2</sub> O   |
| 1 M MgSO <sub>4</sub>                               |                      |                | 24.6 g MgSO <sub>4</sub> ·7H <sub>2</sub> O per 100 ml dH <sub>2</sub> O, autoclave, store at room temperature up to 1 year   |
| LB Broth  |                      |                | 5.0 g LB base, 6.4 g NaCl per 1 L dH <sub>2</sub> O. Autoclave and cool   |
| Saline sodium citrate (SSC)                         |                      |                | 150 mM NaCl, 15 mM trisodium citrate, pH 7.0  |
| SM Buffer   |                      |                | 5.8 g NaCl, 2.0 g MgSO <sub>4</sub> ·7H <sub>2</sub> O, 50 ml 1 M Tris-HCl (pH 7.5), 5.0 ml of gelatin (2% w/v), per 1 L dH <sub>2</sub> O, autoclave, store at room temperature up to 1 year |
| TE buffer   |                      |                | 10 mM Tris, 1 mM EDTA, pH 8   |