

Materials List for:

## *Xenopus laevis* as a Model to Identify Translation Impairment

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### Materials

| Name                                       | Company                     | Catalog Number | Comments                      |
|--|-----------------------------|----------------|-------------------------------|
| Tricaine methane sulphonate                | Sandoz                      | MS-222         | oocytes handling              |
| Forceps                                    | Moria                       | Dumont MC40    |                               |
| Streptomycin/penicillin                    | Sigma                       | 781            |                               |
| Sodium pyruvate                            | Sigma                       | P2256          |                               |
| Soybean trypsin inhibitor                  | Sigma                       | T9128          |                               |
| Tetracyclin                                | Sigma                       | T7660          |                               |
| Veterinarian absorbable Vicryl thread      | Johnson&Johnson Intl        | JV1205         |                               |
| Collagenase A                              | Roche diagnostics           | 10103586001    |                               |
| PmeI                                       | New England Biolabs         | R0560S         | Preparation of synthetic mRNA |
| DNase/RNase free H <sub>2</sub> O          | Life Technologies           | 10977          |                               |
| Sodium Acetate                             | Merck                       | 6268           |                               |
| Absolute ethanol                           | Sigma                       | 02854          |                               |
| Nano Drop                                  | Thermo Scientific           |                |                               |
| TBE 10X                                    | Eppendorf                   | 0032006.507    |                               |
| Ethidium bromide 10 mg/ml                  | Life Technologies           | 15585-011      |                               |
| mMESSAGE mMACHINE Kit                      | Ambion by Life Technologies | AM1344         |                               |
| MOPS                                       | Sigma                       | M1254          |                               |
| EDTA                                       | Fluka                       | 03609          |                               |
| Agarose                                    | Life Technologies           | 16500-500      |                               |
| Formaldehyde 37%                           | Merck                       | 1.04003.1000   |                               |
| Formamide                                  | Fluka                       | 47671          |                               |
| Gel Doc Imager                             | Biorad                      |                |                               |
| Oocyte Pipet with 100 8" Glass Capillaries | Drummond Scientific Company | 3-000-510-X    | microinjection                |
| Replacement Glass 8"                       | Drummond Scientific Company | 3-000-210-G8   |                               |
| 0.45 µm filter                             | Millipore                   | SLHA025NB      |                               |
| Progesterone                               | Sigma                       | P0130          |                               |
| Hepes                                      | Sigma                       | H3375          | Western Blot                  |
| NaCl                                       | Sigma                       | S5886          |                               |
| SDS  | Biorad                      | 161-0301       |                               |
| MgCl <sub>2</sub>                          | Sigma                       | A3294          |                               |
| Bovine serum albumin                       | Sigma                       | A4612          |                               |
| leupeptin                                  | Sigma                       | L8511          |                               |

|   |                                       |                    |                       |
|---|---------------------------------------|--------------------|-----------------------|
| aprotinin   | Sigma                                 | A1153              |                       |
| benzamidine   | Sigma                                 | B6506              |                       |
| PMSF  | Sigma                                 | P7626              |                       |
| sodium vanadate   | Sigma                                 | S6508              |                       |
| Laemmli buffer  | Biorad                                | 161-0737           |                       |
| NuPAGE Novex 4-12% Bis-Tris Protein Gels, 1.0 mm, 15 well     | Life Technologies                     | NP0323BOX          |                       |
| SDS-PAGE electrophoresis, mini-Protean TGX                    | Biorad                                | 456-1036 and -1096 |                       |
| horizontal semi-dry blotting system                           | W.E.P. Compagny                       |                    |                       |
| Glycine   | Biorad                                | 161-0718           |                       |
| Tris-HCl  | Biorad                                | 161-0719           |                       |
| Hybond ECL Membrane   | Amersham Life Science                 | 10401180           |                       |
| Methanol  | VWR                                   | 20846-292          |                       |
| Ponceau Red (0.5%)  | Sigma                                 | P3504              |                       |
| Tween 20  | Sigma                                 | P2287              |                       |
| anti-GFP  | Life Technologies                     | A11122             |                       |
| anti-V5   | Santa Cruz Biotechnology              | sc-58052           |                       |
| anti-Eg2  | Santa Cruz Biotechnology              | sc-27884           |                       |
| anti-Eg2-P  | Cell Signaling                        | C39D8              |                       |
| anti-ERK2   | Santa Cruz Biotechnology              | sc-1647            |                       |
| anti-ERK2-P (Tyr204)  | Santa Cruz Biotechnology              | sc-7976            |                       |
| anti-Rsk  | Santa Cruz Biotechnology              | sc-231             |                       |
| anti-mos  | Santa Cruz Biotechnology              | sc-86              |                       |
| anti-mouse horseradish peroxidase labeled secondary antibody  | Santa Cruz Biotechnology              | sc-2005            |                       |
| anti-rabbit horseradish peroxidase labeled secondary antibody | Santa Cruz Biotechnology              | sc-2812            |                       |
| anti-goat horseradish peroxidase labeled secondary antibody   | Santa Cruz Biotechnology              | sc-2378            |                       |
| Advanced ECL Detection System                                 | Amersham Life Science                 | RPN2135            |                       |
| PBS 1x  | Sigma                                 | P4417              | polyadenylation assay |
| TRIZOL (Qiazol Lysis Reagent)                                 | Qiagen                                | 79306              |                       |
| Chloroform  | Sigma                                 | 31998-8            |                       |
| Isopropanol   | Sigma                                 | 278475-1L          |                       |
| RNeasy mini kit   | Qiagen                                | 74106              |                       |
| RTL buffer  | Qiagen                                | 79216              |                       |
| RNAse free DNase set  | Qiagen                                | 79254              |                       |
| Primers   | Eurogentec                            |                    |                       |
| T4 RNA ligase 1   | New England Biolabs                   | M0204S             |                       |
| High capacity c-DNA Reverse Transcription kit                 | Applied Biosystems, Life Technologies | 4368813            |                       |
| Taq polymerase  | Life Technologies                     | 10342020           |                       |