

Materials List for:

Combined Nucleotide and Protein Extractions in *Caenorhabditis elegans*

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Materials

| Name | Company | Catalog Number | Comments |
|---|----------------------|----------------|--------------------------------|
| 4–15% Mini-PROTEAN® TGX Stain-Free™ Protein Gels | BIORAD | 4568084 | |
| Antibodies: | | | |
| CePAS7-s | DHSB- U of Iowa | | |
| CeTAC1-s | DHSB- U of Iowa | | |
| DLG1-s | DHSB- U of Iowa | | |
| GRP78 | Novus Bio. | NBp1-06274 | |
| HRP Goat Anti-Mouse | Li-Cor | 926-80010 | |
| HRP Goat Anti-Rabbit | Li-Cor | 92680011 | |
| HSP60-s | DHSB- U of Iowa | | |
| LMP1-s | DHSB- U of Iowa | | |
| MRP-1 | Abcam | ab24102 | |
| Neuroigin 3 | Abcam | ab172798 | |
| β-actin | Millipore | MAB1501R | |
| ChemiDoc MP Imaging System | BIORAD | | |
| Chloroform | Fisher | C298-500 | Health hazard, Irritant, Toxic |
| Coomassie Brilliant Blue | ThermoSci | 20279 | |
| DC Protein assay | BIORAD | 500-0116 | |
| Epoch 2 microplate reader | BioTek | | |
| Ethanol (200 proof) | Fisher | 04-355-223 | Flammable, health hazard |
| HeLa cells | ATCC | CCL-2 | BSL2 |
| iScript Reverse Transcription Supermix | BIORAD | 1708840 | |
| Hydra microdispenser: Matrix Hydra | Robbins/ThermoFisher | | |
| Isopropanol | Fisher | A516-4 | Flammable, health hazard |
| M9 buffer: 3 g KH ₂ PO ₄ 6 g Na ₂ HPO ₄ 5 g NaCl Add H ₂ O to 1 liter. Sterilize by autoclaving. After solution cools down, add 1 mL sterile 1 M MgSO ₄ | | | |
| Laemmli Sample Buffer (2x) | BIORAD | 161-0737 | |
| NanoDrop One | ThermoSci | | |
| PAGE apparatus | BIORAD | | |
| Ponceau S | Alfa Aesar | J60744 | |

| Primers | IDT | | 25 nmole DNA Oligo with Standard Desalting |
|--|-----|--|--|
| dlg-1: F (5'-GGTCCTACCA GGCAGTTGAG-3') R (5'-CACGTCCGTT AACCTCTCCC-3') | | | |
| hsp-4: F (5'-AGAGGGCTTT GTCAACCCAG-3') R (5'-TCGTCAAGGT TGATTCCACG-3') | | | |
| hsp-70: F (5'-CGGCATGTGA ACGTGCTAAG-3') R (5'-GAGCAGTTGA GGTCCTTCCC-3') | | | |
| hsp-60: F (5'-ATTGAGCAAT CGACGAGCGA-3') R (5'-CAACACCTCC TCCTGGAACG-3') | | | |
| Imp-1: F (5'-ACAACAACAC CGGACTCACG-3') R (5'-ATCGAGCTCC CACTCTTTGG-3') | | | |
| tac-1: F (5'-AGTGGCAGGC AAAGTTCTC-3') R (5'-TGAGCACCTT GATCTCGTCG-3') | | | |
| pas-7: F (5'-GTACGCTCAA AAGGCTGTCG-3') R (5'-CTGAATCGGC ATTGGCTCAC-3') | | | |
| mrp-1: F (5'-TTGCCTTGC GCTTGTCTG-3') R (5'-AGTCCAGTG CGGACATAC-3') | | | |
| F07C4.12: F (5'-TGCTGAGCAT GAAGGACTGT-3') R (5'-TGGCAATAGC TCCTCCGTTG-3') | | | |
| HK Actin: F (5'-CTACGAACTT CCTGACGGACAAG-3') R (5'-CCGGCGGACT CCATACC-3') | | | |
| HK cyn-1: F (5'-GTGTCACCAT GGAGTTGTTC-3') R (5'-TCCGTAGATT GATTCACCAC-3') | | | |
| HK nhr-23: F (5'-CAGAAACT GAAGAACGCG-3') R (5'-CGATCTGCAG TGAATAGCTC-3') | | | |
| HK ama-1: F (5'-TGGAACTCTG GAGTCACACC-3') R (5'-CATCCTCCTT CATTGAACGG-3') | | | |
| HK cdc-42: F (5'-CTGCTGGACA GGAAGATTACG-3') R (5'-CTCGGACATT CTCGAATGAAG-3') | | | |
| HK pmp-3: F (5'-GTTCCCGTGT TCATCACTCAT-3') R (5'-ACACCGTCGA | | | |

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|---|--------------------------------------|----------|----------------------------|
| GAAGCTGTAGA-3') | | | |
| LightCycler 96 qPCR machine | Roche | | |
| RIPA buffer: 10 mM Tris-Cl (pH 8.0) 1 mM EDTA 1% Triton X-100 0.2% SDS 140 mM NaCl 1 tablet of Roche protease inhibitor per 20 mL | | | |
| SsoAdvanced Universal SYBR Supermix | BIORAD | 1725274 | |
| SuperSignal West Femto Max Sens Substrate | ThermoSci | 34095 | |
| Trans-Blot Transfer apparatus | BIORAD | | |
| Trans-Blot Turbo Transfer Pack | BIORAD | 170-4159 | |
| TRIzol reagent | Invitrogen | 15596026 | Health hazard (skin, eyes) |
| Worm strains: | Caenorhabditis Genetics Center (CGC) | | |
| N2 (wild type) | Caenorhabditis Genetics Center (CGC) | | |
| <i>eat-2 (MAH95)</i> | Caenorhabditis Genetics Center (CGC) | | |
| <i>rsk-1 (VB633)</i> | Caenorhabditis Genetics Center (CGC) | | |