

Materials List for:

Stable Knockdown of Genes Encoding Extracellular Matrix Proteins in the C2C12 Myoblast Cell Line Using Small-Hairpin (sh)RNA

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URL: <https://www.jove.com/video/60824>

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Materials

| Name | Company | Catalog Number | Comments |
|--|---------------------------------|----------------|----------|
| Acetone | Fisher Chemical | 191784 | |
| Agar | Fisher Bioreagents | BP1423 | |
| Ampicillin | Fisher Bioreagents | BP1760-5 | |
| Automated cell counter Countesse II | Invitrogen | A27977 | |
| Bradford Reagent | Thermo Scientific | P4205987 | |
| C2C12 cells | ATCC | CRL-1772 | |
| Chamber slides | Invitrogen | C10283 | |
| Chloroform | Fisher Chemical | 183172 | |
| DMEM | GIBCO | 11965-092 | |
| DMSO | Fisher Bioreagents | BP231-100 | |
| DNase I (Amplification Grade) | Invitrogen | 18068015 | |
| Fetal bovine serum | VWR | 97068-085 | |
| GAPDH | EMD Millipore | MAB374 | |
| Glycine | VWR Life Sciences | 19C2656013 | |
| Goat-anti-mouse secondary antibody (IRDYE 800CW) | Li-Cor | C90130-02 | |
| Goat-anti mouse secondary antibody (Rhodamine-red) | Jackson Immune Research | 133389 | |
| HCl | Fisher Chemical | A144S | |
| Incubator (Shaker) | Denville Scientific Corporation | 1704N205BC105 | |
| Mercaptoethanol | Amresco, VWR Life Sciences | 2707C122 | |
| Midiprep plasmid extraction kit | Qiagen | 12643 | |
| Myosin 4 (myosin heavy chain) | Invitrogen | 14-6503-82 | |
| Mounting medium | Invitrogen | 2086310 | |
| NaCl | VWR Life Sciences | 241 | |
| non-ionic surfactant/detergent | VWR Life Sciences | 18D1856500 | |
| Paraformaldehyde | MP | 199983 | |
| PBS | Fisher Bioreagents | BP399-4 | |
| PEI | Polysciences | 23966-1 | |
| Penicillin/streptomycin antibiotics | GIBCO | 15140-122 | |
| Petridishes | Corning | 353003 | |
| Polypropylene tubes | Fisherbrand | 149569C | |
| Protease inhibitor cocktail tablets | Roche | 33576300 | |
| Puromycin | Fisher Scientific | BP2956100 | |

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| PCR (Real Time) | Applied Biosystems | 4359284 | |
| Reaction tubes | Eppendorf | 22364111 | |
| Reverse Transcription Master Mix | Applied Biosystems | 4368814 | |
| RIPA buffer | Thermo Scientific | TK274910 | |
| sh control plasmid | Sigma-Aldrich | 07201820MN | |
| sh 3086 plasmid | Sigma-Aldrich | TRCN0000092578 | |
| sh 972 plasmid | Sigma-Aldrich | TRCN0000092579 | |
| sh 1977 plasmid | Sigma-Aldrich | TRCN0000092582 | |
| Spectrophotometer (Nanodrop) | Thermo Scientific | NanoDrop One C | |
| SYBR Green Reagent Master Mix | Applied Biosystems | 743566 | |
| Trichloroacetic acid | Acros Organics | 30145369 | |
| Trizol reagent | Ambion | 254707 | |
| Trypan blue | GIBCO | 15250-061 | |
| Tryptone | Fisher Bioreagents | BP1421 | |
| Trypsin EDTA 0.25% | Gibco-Life Technology Corporation | 2085459 | |
| Water (DEPC treated and nuclease free) | Fisher Bioreagents | 186163 | |
| Western blotting apparatus | Biorad | Mini Protean Tetra Cell | |
| Yeast extract | Fisher Bioreagents | BP1422 | |