

Cell Line	Cell Type	Source	Genlantis Product	Citation
A549	Lung Carcinoma	Human	GeneSilencer siRNA Transfection Reagent	Ito, K., Yamamura, S., Essilfie-Quaye, S., Cosio, B., Ito, M., Barnes, P.J. and Adcock, I.M. (2006) Histone deacetylase 2-mediated deacetylation of the glucocorticoid receptor enables NFκB suppression. J. Exp. Med. 203(1): 7-13.
HEK 293	Embryonic Kidney	Human	GeneSilencer siRNA Transfection Reagent	Shenoy, S.K., Drake, M.T., Nelson, C.D., Houtz, D.A., Xiao, K., Madabushi, S., Reiter, E., Premont, R.T., Lichtarge, O. and Lefkowitz, R.J. (2006) {beta}-Arrestin-dependent, G Protein-independent ERK1/2 Activation by the {beta}2 Adrenergic Receptor. J. Biol. Chem. 281(2): 1261-1273.
HEK-293	Embryonic Kidney	Human	GeneSilencer siRNA Transfection Reagent	Gesty-Palmer, D., Chen, M., Reiter, E., Ahn, S., Nelson, C.D., Wang, S., Eckhardt, A.E., Cowan, C.L., Spurney, R.F., Luttrell, L.M. and Lefkowitz, R.J. (2006) Distinct beta-Arrestin- and G Protein-dependent Pathways for Parathyroid Hormone Receptor-stimulated ERK1/2 Activation. J. Biol. Chem. 281(16): 10856-10864.
HeLa	Cervical Carcinoma	Human	GeneSilencer	Kheifets, V., Bright, R., Inagaki, K., Schechtman, D. and Mochly-Rosen, D. (2006) Protein Kinase C δ}PKC)-Annexin V Interaction: a required step in δ PKC translocation and function. J. Biol. Chem. 281(32): p. 23218-23226.
CHO-K1	Ovary	Chinese Hamster	GeneSilencer Reagent	Kheifets, V., Bright, R., Inagaki, K., Schechtman, D. and Mochly-Rosen, D. (2006) Protein Kinase C δ PKC-Annexin V Interaction: a required step in δ PKC translocation and function. J. Biol. Chem. 281(32): p. 23218-23226.

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Primary	Bone Marrow	Mouse	GeneSilencer Reagent	Yang, R., Cai, Z., Zhang, Y., Yutzy IV, W.H., Roby, K.F. and Roden, R.B.S. (2006) CD80 in Immune Suppression by Mouse Ovarian Carcinoma; Associated Gr-1+CD11b+ Myeloid Cells. Cancer Res 66 (13): 6807 - 6815.
M2	Melanoma	Human	GeneSilencer	Scott, M.G.H., Pierotti, V., Storez, H., Lindberg, E., Thuret, A., Muntaner, O., Labbe-Jullie, C., Pitcher, J.A. and Marullo, S. (2006) Cooperative Regulation of Extracellular Signal-Regulated Kinase Activation and Cell Shape Change by Filamin A and $\beta$ -Arrestins. Mol. & Cell Biol, 26: 3432-3445.
A7	Melanoma	Human	GeneSilencer Reagent	Scott, M.G.H., Pierotti, V., Storez, H., Lindberg, E., Thuret, A., Muntaner, O., Labbe-Jullie, C., Pitcher, J.A. and Marullo, S. (2006) Cooperative Regulation of Extracellular Signal-Regulated Kinase Activation and Cell Shape Change by Filamin A and $\beta$ -Arrestins. Mol. & Cell Biol, 26: 3432-3445.
Primary	Pulmonary Artery Endothelium	Human	GeneSilencer Reagent	Birukova, A.A., Chatchavalvanich, S., Rios, A., Kawkitinarong, K., Garcia, J.G.N. and Birukov, K.G. (2006) Differential Regulation of Pulmonary Endothelial Monolayer Integrity by Varying Degrees of Cyclic Stretch. Am. J. Pathol. 168: 1749 - 1761.
Primary	Dorsal Root Ganglion	Rat	GeneSilencer Reagent	Hengst, U. Cox, L.J., Macosko, E.Z. and Jaffrey, S.R. (2006) Functional and Selective RNA Interference in Developing Axons and Growth Cones. J. Neurosci. 26(21): 5727-5732.

Cell Line	Cell Type	Source	Genlantis Product	Citation
PC-12	Pheochromocytoma	Rat	GeneSilencer	de Barry, J., Janoshazi, A., Luc Dupont, J., Procksch, O., Chasserot-Golaz, S., Jeromin, A. and Vitale, N. (2006) Functional Implication of Neuronal Calcium Sensor-1 and Phosphoinositol 4-Kinase- $\beta$ Interaction in Regulated Exocytosis of PC12 Cells. <i>J. Biol Chem.</i> 281(26): 18098-18111.
HEK 293	Embryonic Kidney	Human	GeneSilencer siRNA Transfection Reagent	Khundmiri, S.J., Dean, W.L., McLeish, K.R. and Lederer, E.D. (2005) Parathyroid Hormone-mediated Regulation of Na <sup>+</sup> -K <sup>+</sup> -ATPase Requires ERK-dependent Translocation of Protein Kinase C{alpha}. <i>J. Biol. Chem.</i> 280(10): p. 8705-8713.
Primary	T-Cells (CD3+)	Human	GeneSilencer siRNA Transfection Reagent	Samten, B., Howard, S.T., Weis, S.E., Wu, S., Shams, H., Townsend, J.C., Safi, H. and Barnes, P.F. (2005) Cyclic AMP Response Element-Binding Protein Positively Regulates Production of IFN- $\gamma$ by T Cells in Response to a Microbial Pathogen. <i>J. Immunol.</i> 174(10): p. 6357-6363.
SNB19	Glioblastoma	Human	GeneSilencer siRNA Transfection Reagent	Song, S.W., Fuller, G.N., Zheng, H. and Zhang, W. (2005) Inactivation of the Invasion Inhibitory Gene Iip45 by Alternative Splicing in Gliomas. <i>Cancer Res.</i> 65(9): p. 3562-3567.
Renca	Renal Cell Carcinoma	Mouse	GeneSilencer siRNA Transfection Reagent	Ogushi, T., Takahashi, S., Takeuchi, T., Urano, T., Horie-Inoue, K., Kumagai, J., Kitamura, T., Ouchi, Y., Muramatsu, M. and Inoue, S. (2005) Estrogen Receptor-Binding Fragment-Associated Antigen 9 Is a Tumor-Promoting and Prognostic Factor for Renal Cell Carcinoma. <i>Cancer</i>

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				Res. 65(9): p. 3700-3706.
Primary	Dorsal Root Ganglion	Rat	GeneSilencer siRNA Transfection Reagent	Wu, K.Y., Hengst, U., Cox, L.J., Macosko, E.Z., Jeromin, A., Urquhart, E.R., and Jaffrey, S.R. (2005) Local translation of RhoA regulates growth cone collapse. Nature 436: 1020-1024.
OK	Kidney	Opossum	GeneSilencer siRNA Transfection Reagent	Khundmiri, S.J., Dean, W.L., McLeish, K.R. and Lederer, E.D. (2005) Parathyroid Hormone-mediated Regulation of Na <sup>+</sup> -K <sup>+</sup> -ATPase Requires ERK-dependent Translocation of Protein Kinase C{alpha}. J. Biol. Chem. 280(10): p. 8705-8713.
NIH-3T3	Fibroblast	Mouse	GeneSilencer siRNA Transfection Reagent	Hotulainen, P., Paunola, E., Vartiainen, M.K. and Lappalainen, P. (2005) Actin-depolymerizing Factor and Cofilin-1 Play Overlapping Roles in Promoting Rapid F-Actin Depolymerization in Mammalian Nonmuscle Cells. Mol. Biol. Cell. 16(2): p. 649-664.
B16-F1	Melanoma	Mouse	GeneSilencer siRNA Transfection Reagent	Hotulainen, P., Paunola, E., Vartiainen, M.K. and Lappalainen, P. (2005) Actin-depolymerizing Factor and Cofilin-1 Play Overlapping Roles in Promoting Rapid F-Actin Depolymerization in Mammalian Nonmuscle Cells. Mol. Biol. Cell. 16(2): p. 649-664.
HEK 293	Embryonic Kidney	Human	GeneSilencer siRNA Transfection Reagent	Kim, J., Ahn, S., Ren, X-R., Whalen, E.J., Reiter, E., Wei, H. and Lefkowitz, R.J. (2005) Functional antagonism of different G protein-coupled receptor kinases for {beta}-arrestin-mediated angiotensin II

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				receptor signaling. Proc. Natl. Acad. Sci. 102: 1442 - 1447.
HEK 293	Embryonic Kidney	Human	GeneSilencer siRNA Transfection Reagent	Ren, X-R., Reiter, E., Ahn, S., Kim, J., Chen, W. and Lefkowitz, R.J. (2005) Different G protein-coupled receptor kinases govern G protein and {beta}-arrestin-mediated signaling of V2 vasopressin receptor. Proc. Natl. Acad. Sci. 102: 1448 - 1453.
H460	Lung Cancer	Human	GeneSilencer siRNA Transfection Reagent	Ren, J., Shi, M., Liu, R., Yang, Q-H., Johnson, T., Skarnes, W.C. and Du, C. (2005) The Birc6 (Bruce) gene regulates p53 and the mitochondrial pathway of apoptosis and is essential for mouse embryonic development. Proc. Natl. Acad. Sci. USA. 102(3): p. 565-570.
HEK 293	Embryonic Kidney	Human	GeneSilencer siRNA Transfection Reagent	Wu, J-H, Goswami, R., Kim, L.K., Miller, W.E., Peppel, K. and Freedman, N.J. (2005) The Platelet-derived Growth Factor Receptor-{beta} Phosphorylates and Activates G Protein-coupled Receptor Kinase-2: a Mechanism for Feedback Inhibition. J. Biol. Chem. 280(35): p. 31027-31035.
MV-4-11	Biophenotypic B Myelomonocytic Leukemia	Human	GeneSilencer siRNA Transfection Reagent	Yang, X., Liu, L., Sternberg, D., Tang, L., Galinsky, I., DeAngelo, D. and Stone, R. (2005) The FLT3 Internal Tandem Duplication Mutation Prevents Apoptosis in Interleukin-3-Deprived BaF3 Cells Due to Protein Kinase A and Ribosomal S6 Kinase 1-Mediated BAD Phosphorylation at Serine 112. Cancer Res. 65(16): p. 7338-7347.
3T3-L1	Embryo	Swiss Mouse	GeneSilencer siRNA Transfection Reagent	Mizuarai, S., Miki, S., Araki, H., Takahashi, K. and Kotani, H.(2005)

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				Identification of Dicarboxylate Carrier Slc25a10 as Malate Transporter in <i>de Novo</i> Fatty Acid Synthesis. J. Biol. Chem.280(37): p. 32434-32441.
Primary	Macrophage	Human	GeneSilencer siRNA Transfection Reagent	Asmis, R., Wang, Y., Xu, L., Kisgati, M., Begley, J.G. and Mielay, J.J. (2005) A novel thiol oxidation-based mechanism for adriamycin-induced cell injury in human macrophages. FASEB J. published 13 September 2005, 10.1096/fj.04-2991fje.
A549	Lung Carcinoma	Human	GeneSilencer siRNA Transfection Reagent	Stepulak, A., Sifringer, M., Rzeski, W., Endesfelder, S., Gratopp, A., Pohl, E.E., Bittigau, P., Hansen, H.H., Stryjecka-Zimmer, M., Turski, L. and Ikonomidou, C. (2005) NMDA antagonist inhibits the extracellular signal-regulated kinase pathway and suppresses cancer growth. Proc. Natl. Acad. Sci. 102: 15605 - 15610.
HCT116	Human	Colon Carcinoma	GeneSilencer siRNA Transfection Reagent	Yao, K., Shida, S., Selvakumaran, M., Zimmerman, R., Simon, E., Schick, J., Haas, N.B., Balke, M., Ross, H., Johnson, S.W. and O'Dwyer, P.J. (2005) Macrophage Migration Inhibitory Factor Is a Determinant of Hypoxia-Induced Apoptosis in Colon Cancer Cell Lines. Clin. Cancer Res. 11(20): p. 7264-7272.
HT-29	Colon Adenocarcinoma	Human	GeneSilencer siRNA Transfection Reagent	Yao, K., Shida, S., Selvakumaran, M., Zimmerman, R., Simon, E., Schick, J., Haas, N.B., Balke, M., Ross, H., Johnson, S.W. and O'Dwyer, P.J. (2005) Macrophage Migration Inhibitory Factor Is a Determinant of Hypoxia-Induced Apoptosis in Colon

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				Cancer Cell Lines. Clin. Cancer Res. 11(20): p. 7264-7272.
SaOs2	Osteosarcoma	Human	GeneSilencer siRNA Transfection Reagent	Chu, F., Chou, P.M., Zheng, X., Mirkin, B.L. and Rebbaa, A. (2005) Control of Multidrug Resistance Gene <i>mdr1</i> and Cancer Resistance to Chemotherapy by the Longevity Gene <i>sirt1</i> . Cancer Res. 65 (22): p. 10183-10187.
MDA MB-468	Breast Carcinoma	Human	GeneSilencer siRNA Transfection Reagent	Ge, L., Shenoy, S.K., Lefkowitz, R.J. and DeFea, K.A. (2004) Constitutive protease-activated-receptor-2 mediated migration of MDA MB-231 breast cancer cells requires both beta-arrestin-1 and 2. J. Biol. Chem. 279(53): p. 55419-55424.
HEK 293	Embryonic Kidney	Human	GeneSilencer siRNA Transfection Reagent	Wei, H., Ahn, S., Shenoy, S.K., Karnik, S.S., Hunyady, L., Luttrell, L.M. and Lefkowitz, R.J. (2003) Independent -arrestin 2 and G protein-mediated pathways for angiotensin II activation of extracellular signal-regulated kinases 1 and 2. Proc. Natl. Acad. Sci. 100: 10782 ? 10787.
SCCH196	Sarcoma	Human	GeneSilencer siRNA Transfection Reagent	Takahashi, A., Higashino, F., Aoyagi, M., Yoshida, K., Itoh, M., Kyo, S., Ohno, T., Taira, T., Ariga, H., Nakajima, K., Hatta, M., Kobayashi, M., Sano, H., Kohgo, T. and Shindoh, M., (2003) EWS/ETS Fusions Activate Telomerase in Ewing's Tumors. Cancer Res. 63: 8338-8344.
Saos-2	Osteosarcoma	Human	GeneSilencer siRNA Transfection Reagent	Zheng, X., Chou, P.M., Mirkin, B.L. and Rebbaa, A. (2004) Senescence-initiated Reversal of Drug Resistance: Specific Role of Cathepsin L. Cancer Res.

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				64: 1773 - 1780.
RAW 264.7	Macrophage	Mouse	GeneSilencer siRNA Transfection Reagent	de Beer, M.C., Zhao, Z., Webb, N.R., van der Westhuyzen, D.R. and de Villiers, W.J.S. (2003) Lack of a direct role for macrosialin in oxidized LDL metabolism. J. Lipid Res. 44: 674 - 685.
Primary	Schwann Cells	Mouse	GeneSilencer siRNA Transfection Reagent	Higuchi, H., Yamashita, T., Yoshikawa, H. and Tohyama, M. (2003) Functional inhibition of the p75 receptor using a small interfering RNA. Biochem. & Biophys. Res. Comm. 301: 804-809.
Primary	Peritoneal Macrophage	Mouse	GeneSilencer siRNA Transfection Reagent	de Beer, M.C., Zhao, Z., Webb, N.R., van der Westhuyzen, D.R. and de Villiers, W.J.S. (2003) Lack of a direct role for macrosialin in oxidized LDL metabolism J. Lipid Res. 44: 674 - 685.
Primary	Osteoblast	Mouse	GeneSilencer siRNA Transfection Reagent	Ohyama, Y., Nifuji, A., Maeda, Y., Amagasa, T. and Noda, M. (2004) Spatiotemporal Association and Bone Morphogenetic Protein Regulation of Sclerostin and Osterix Expression during Embryonic Osteogenesis. Endocrinology. 145(10): p. 4685-4692.
Primary	Lung Microvascular Endothelial Cells	Human	GeneSilencer siRNA Transfection Reagent	Kolosova, I.A., Ma, S-F, Adyshev, D.M., Wang, P., Ohba, M., Natarajan, V., Garcia, J.G.N. and Verin, A.D. (2004) Role of CPI-17 in the regulation of endothelial cytoskeleton AJP: Lung. 287(5): L970.
Primary	Dorsal Root Ganglion Neurons	Mouse	GeneSilencer siRNA Transfection Reagent	Haruhisa Higuchi, Toshihide Yamashita, Hideki Yoshikawa, and Masaya Tohyama (2003) Functional inhibition of the p75 receptor

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				using a small interfering RNA. <i>Biochem. &amp; Biophys. Res. Comm.</i> 301: 804-809.
Primary	Dendritic Cells	Mouse	GeneSilencer siRNA Transfection Reagent	Liu, G., Ng, H., Akasaki, Y., Yuan, X., Ehtesham, M., Yin, D., Black, K.L. and Yu, J.S. (2004) Small interference RNA modulation of IL-10 in human monocyte-derived dendritic cells enhances the Th1 response. <i>Eur. J. Immunol.</i> 34: 1680-1687.
Primary	Dendritic Cells	Mouse	GeneSilencer siRNA Transfection Reagent	Li, M., Qian, H., Ichim, T.E., Ge, W-W, Popov, I.A., Rycerz, K., Neu, J., White, D., Zhong, R., Min, W-P. (2004) Induction of RNA Interference in Dendritic Cells. <i>Immunologic Research</i> 30 (2) 215-230.
Primary	Cortical Neurons	Mouse	GeneSilencer siRNA Transfection Reagent	Aleyasin, H., Cregan, S.P., Iyirhiaro, G., OHare, M.J., Callaghan, S.M., Slack, R.S. and Park, D.S. (2004) Nuclear Factor-B Modulates the p53 Response in Neurons Exposed to DNA Damage. <i>J. Neurosci.</i> 24 (12): 2963-2973.
Primary	Cortical Neurons	Mouse	GeneSilencer siRNA Transfection Reagent	Aarts, M., Lihara, K., Wei, W-L, Xiong, Z-G, Arundine, M., Cerwinski, W., MacDonald, J.F., Tymianski, M. (2003) A Key Role for TRPM7 Channels in Anoxic Neuronal Death. <i>Cell</i> 115: 863.
Primary	Cerebellar Neurons	Rat	GeneSilencer siRNA Transfection Reagent	Numakawa, T., Nakayama, H., Suzuki, S., Kubo, T., Nara, F., Numakawa, Y., Yokomaku, D., Araki, T., Ishimoto, T., Ogura, A. and Taguchi, T. (2003) Nerve growth factor-induced glutamate release is via p75 receptor, ceramide and Ca <sup>2+</sup> from ryanodine receptor in developing cerebellar neurons. <i>J. Biol. Chem.</i> 278: 41259-41269.

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Primary	Cardiac Myocytes (Neonatal)	Rat	GeneSilencer siRNA Transfection Reagent	Juhaszova, M., Zorov, D.B., Kim, S-H, Pepe, S., Fu, O., Fishbein, K.W., Ziman, B.D., Wang, S., Ytrehus, K., Antos, C.L., Olson, E.N. and Sollott, S.J. (2004) Glycogen synthase kinase-3{beta} mediates convergence of protection signaling to inhibit the mitochondrial permeability transition pore. J. Clin. Invest. 113(11): p. 1535-1549.
Primary	Aveolar Type II Cells	Mouse	GeneSilencer siRNA Transfection Reagent	Ueno, T., Linder, S., Na, C-L, Rice, W.R., Johansson, J., and Weaver, T.E. (2004) Processing of Pulmonary Surfactant Protein B by Napsin and Cathepsin H. J. Biol. Chem. 279: 16178-16184.
Primary	Aortic Muscle Cells	Rat	GeneSilencer siRNA Transfection Reagent	Lake, A.C. & Castellot, J.J. (2003) CCN5 modulates the antiproliferative effect of heparin and regulates cell motility in vascular smooth muscle cells. Cell Comm. & Signaling 1: 5.
NIH-3T3	Fibroblast	Mouse	GeneSilencer siRNA Transfection Reagent	Bertling, E., Hotulainen, P., Mattila, P.K., Matilainen, T., Salminen, M., and Lappalainen, P. (2004) Cyclase-associated-protein 1 (CAP1) promotes cofilin-induced actin dynamics in mammalian nonmuscle cells. Mol. Biol. Cell 15 (5): 2324-2334.
Neuro2a	Neuroblastoma	Mouse	GeneSilencer siRNA Transfection Reagent	Bertling, E., Hotulainen, P., Mattila, P.K., Matilainen, T., Salminen, M., and Lappalainen, P. (2004) Cyclase-associated-protein 1 (CAP1) promotes cofilin-induced actin dynamics in mammalian nonmuscle cells. Mol. Biol. Cell 15 (5): p. 2324-2334.
MKN 45	Gastric Epithelium	Human	GeneSilencer siRNA Transfection Reagent	Nagasako, T., Sugiyama, T., Mizushima, T., Miura, Y., Kato, M. and Asaka, M. (2003) Ub-regulated Smad5

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				Mediates Apoptosis of Gastric Epithelial Cells Induced by Helicobacter pylori Infection. J. Biol. Chem.: 278: 4821 - 4825.
MKN 28	Gastric Epithelium	Human	GeneSilencer siRNA Transfection Reagent	Nagasako, T., Sugiyama, T., Mizushima, T., Miura, Y., Kato, M. and Asaka, M. (2003) Up-regulated Smad5 Mediates Apoptosis of Gastric Epithelial Cells Induced by Helicobacter pylori Infection. J. Biol. Chem.: 278: 4821 - 4825.
MDA MB-231	Breast Cancer	Human	GeneSilencer siRNA Transfection Reagent	Ge, L., Shenoy, S.K., Lefkowitz, R.J. and DeFea, K.A. (2004) Constitutive protease-activated-receptor-2 mediated migration of MDA MB-231 breast cancer cells requires both beta-arrestin-1 and 2. J. Biol. Chem. 279(53): p. 55419-55424.
MCF-7	Breast Adenocarcinoma	Human	GeneSilencer siRNA Transfection Reagent	Ikeda, K., Ogawa, S., Tsukui, T., Horie-Inoue, K., Ouchi, Y., Kato, S., Muramatsu, M. and Inoue, S. (2004) Protein Phosphatase 5 Is a Negative Regulator of Estrogen Receptor-mediated Transcription. Mol. Endocrinol. 18(5): 1131-1143.
KATOIII	Gastric Epithelium	Human	GeneSilencer siRNA Transfection Reagent	Nagasako, T., Sugiyama, T., Mizushima, T., Miura, Y., Kato, M. and Asaka, M. (2003) Up-regulated Smad5 Mediates Apoptosis of Gastric Epithelial Cells Induced by Helicobacter pylori Infection. J. Biol. Chem: 278: 4821 - 4825.
Jurkat	T-Cell Lymphoma	Human	GeneSilencer siRNA Transfection Reagent	Nguyen, J.T. and Wells, J.A. (2003) Direct activation of the apoptosis machinery as a mechanism to target cancer cells. Proc. Natl. Acad. Sci. 100: 7533 - 7538.

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HMEC-1	Human Microvascular Endothelial Cells	Human	GeneSilencer siRNA Transfection Reagent	Zhou, X., Stuart, A., Dettin, L.E., Rodriguez, G., Hoel, B. and Gallicano G.I. (2004) Desmoplakin is required for microvascular tube formation in culture. <i>J. Cell Sci.</i> 117: 3129-3140.
HL-60	Peripheral Blood Promyelocytic Leukemia	Human	GeneSilencer siRNA Transfection Reagent	Smirnova, I.V., Kajstura, M., Sawamura, T. and Goligorsky, M.S. (2004) Asymmetric dimethylarginine upregulates LOX-1 in activated macrophages: role in foam cell formation. <i>AJP: Heart</i> 287(2): p. H782-H790
HeLa	Cervical Carcinoma	Human	GeneSilencer siRNA Transfection Reagent	Yang, Q-H, Church-Hajduk, R., Ren, J., Newton, M.L. and Du, C. (2003) Omi/HtrA2 catalytic cleavage of inhibitor of apoptosis (IAP) irreversibly inactivates IAPs and facilitates caspase activity in apoptosis. <i>Genes &amp; Dev.</i> 17: 1487 - 1496.
HeLa	Cervical Carcinoma	Human	GeneSilencer siRNA Transfection Reagent	Witherow, D.S., Garrison, T.R., Miller, W.E. and Robert J. Lefkowitz (2004) $\beta$ -Arrestin inhibits NF- $\kappa$ B activity by means of its interaction with the NF- $\kappa$ B inhibitor I $\kappa$ B $\alpha$ . <i>Proc. Natl. Acad. Sci. USA</i> 101: 8603-8607.
HeLa	Cervical Carcinoma	Human	GeneSilencer siRNA Transfection Reagent	Cassimeris, L. and Morabito, J. (2004) TOGp, the Human Homolog of XMAP215/Dis1, Is Required for Centrosome Integrity, Spindle Pole Organization, and Bipolar Spindle Assembly. <i>Mol. Biol. Cell</i> 15 (4): 1580-1590.
HeLa	Cervical Carcinoma	Human	GeneSilencer siRNA Transfection Reagent	Layzer, J.M., McCaffrey, A.P., Tanner, A.K., Huang, Zan, Kay, Mark A. and Sullenger, B.A. (2004) In vivo activity of nuclease-resistant siRNAs. <i>RNA</i> 10 (5): p. 766-771.

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HEK 293T	Embryonic Kidney	Human	GeneSilencer siRNA Transfection Reagent	Wei, H., Ahn, S., Shenoy, S.K., Karnik, S.S., Hunyady, L., Luttrell, L.M. and Lefkowitz, R.J. (2003) Independent -arrestin 2 and G protein-mediated pathways for angiotensin II activation of extracellular signal-regulated kinases 1 and 2. Proc. Natl. Acad. Sci. 100: 10782 □ 10787.
HEK 293	Embryonic Kidney	Human	GeneSilencer siRNA Transfection Reagent	Liang, Y., Yu, W., Li, Y., Yan, X., Huang, Q. and Zhu, X. (2004) Nudel functions in membrane traffic mainly through association with Lis1 and cytoplasmic dynein. J. Cell Biol. 164 (4): 557-566.
HEK 293	Embryonic Kidney	Human	GeneSilencer siRNA Transfection Reagent	Kohout, T.A., Nicholas, S.L., Perry, S.J., Reinhart, G., Junger, S. and Struthers, R. (2004) Differential Desensitization, Receptor Phosphorylation, {beta}-Arrestin Recruitment, and ERK1/2 Activation by the Two Endogenous Ligands for the CC Chemokine Receptor 7. J. Biol. Chem. 279 (22): p. 23214-23222.
HEK 293	Embryonic Kidney	Human	GeneSilencer siRNA Transfection Reagent	Wei, H., Ahn, S., Barnes, W.G. and Lefkowitz, R.J., (2004) Stable interaction between beta -arrestin2 and AT 1A receptor is required for beta -arrestin2 mediated activation of extracellular signal-regulated kinase 1 and 2. J. Biol. Chem. 279: 48255-48261.
HEK 293	Embryonic Kidney	Human	GeneSilencer siRNA Transfection Reagent	Shikama, Y., Yamada, M., Miyashita, T. (2004) Caspase-8 and caspase-10 activate NF-B through RIP, NIK and IKK kinases. Eur. J. Immun. 33 (7): 1998-2006.
HEK 293	Embryonic Kidney	Human	GeneSilencer siRNA Transfection Reagent	Ahn, S., Shenoy, S.K., Wei, H. and Lefkowitz, R.J. (2004) Differential Kinetic and Spatial Patterns of {beta}-Arrestin and G

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				Protein-mediated ERK Activation by the Angiotensin II Receptor. J. Biol. Chem. 279 (34): 35518-35525.
HEK 293	Embryonic Kidney	Human	GeneSilencer siRNA Transfection Reagent	Ahn, S., Wei, H., Garrison, T.R. and Lefkowitz, R.J. (2004) Reciprocal Regulation of Angiotensin Receptor-activated Extracellular Signal-regulated Kinases by (beta)-Arrestins 1 and 2. J. Biol. Chem. 279: 7807-7811.
HEK 293	Embryonic Kidney	Human	GeneSilencer siRNA Transfection Reagent	Ahn, S., Nelson, C.D., Garrison, T.R., Miller, W.E. and Lefkowitz, R.J. (2003) Desensitization, internalization, and signaling functions of -arrestins demonstrated by RNA interference. Proc. Natl. Acad. Sci. 100: 1740 - 1744.
DC2.4	Bone Marrow	Mouse	GeneSilencer siRNA Transfection Reagent	Jing, H., Yen, J-H and Ganea, D. (2004) A novel signaling pathway mediates the inhibition of CCL3/4 expression by PGE2. J. Biol. Chem. 279(53): p. 55176-55186.
C166	Yolk Sack Endothelium	Mouse	GeneSilencer siRNA Transfection Reagent	Zhou, X., Stuart, A., Dettin, L.E., Rodriguez, G., Hoel, B. and Gallicano G.I. (2004) Desmoplakin is required for microvascular tube formation in culture. J. Cell Sci. 117: 3129-3140.
B16-F1	Melanoma	Mouse	GeneSilencer siRNA Transfection Reagent	Bertling, E., Hotulainen, P., Mattila, P.K., Matilainen, T., Salminen, M., and Lappalainen, P. (2004) Cyclase-associated-protein 1 (CAP1) promotes cofilin-induced actin dynamics in mammalian nonmuscle cells. Mol. Biol. Cell 15 (5): p. 2324-2334.
AGS	Gastric Epithelium	Human	GeneSilencer siRNA Transfection Reagent	Varro, A., Noble, P-J. M., Pritchard, D.M., Kennedy, S., Hart, C.A., Dimaline, R. and Dockrav. G.J. (2004)

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				Helicobacter pylori Induces Plasminogen Activator Inhibitor 2 in Gastric Epithelial Cells through Nuclear Factor-B and RhoA: Implications for Invasion and Apoptosis Cancer Res. 64: 1695 - 1702.
AGS	Gastric Epithelium	Human	GeneSilencer siRNA Transfection Reagent	Nagasako, T., Sugiyama, T., Mizushima, T., Miura, Y., Kato, M. and Asaka, M. (2003) Up-regulated Smad5 Mediates Apoptosis of Gastric Epithelial Cells Induced by Helicobacter pylori Infection. J. Biol. Chem.: 278: 4821 - 4825.
C2C12	Myoblast	Mouse	GeneSilencer Reagent	Evangelisti, C., Tazzari, P.L., Riccio, M., Fiume, R., Hozumi, Y., Fala, F., Goto, K., Manzoli, L., Cocco, L. and Martelli, A.M. (2007) Nuclear diacylglycerol kinase- $\zeta$ is a negative regulator of cell cycle progression in C2C12 mouse myoblasts. FASEB J. 21: 3297 - 3307
Primary	Hippocampal Neurons	Rat	GeneSilencer Reagent	Amaral, M.D. and Pozzo-Miller, L. (2007) TRPC3 Channels Are Necessary for Brain-Derived Neurotrophic Factor to Activate a Nonselective Cationic Current and to Induce Dendritic Spine Formation. J. Neurosci. 27(19): p. 5179-5189.
MDA-MB-468	Breast Carcinoma	Human	GeneSilencer Reagent	Zoudilova, M., Kumar, P., Ge, L., Wang, P., Bokoch, G. M. and DeFea, K. A. (2007) $\beta$ -arrestin-dependent regulation of the cofilin pathway downstream of protease-activated receptor-2. J. Biol. Chem. 282: 20634 - 20646.
HEK-293	Embryonic Kidney	Human	GeneSilencer Reagent	El-Shewy, H.M., Lee, M-H., Obeid, L.M., Jaffa, A.A. and Luttrell, L.M. (2007) The Insulin-like Growth Factor Type 1 and Insulin-like

Cell Line	Cell Type	Source	Genlantis Product	Citation
				Growth Factor Type 2/Mannose-6-phosphate Receptors Independently Regulate ERK1/2 Activity in HEK293 Cells. <i>J. Biol. Chem.</i> 282(36): 26150-26157.
Primary	Coronary Artery Endothelial	Human HCAEC	GeneSilencer	Dandapat, A., Hu, C., Sun, L. and Mehta, J.L. (2007) Small Concentrations of oxLDL Induce Capillary Tube Formation From Endothelial Cells via LOX-1 Dependent Redox-Sensitive Pathway. <i>Arterioscler Thromb Vasc Biol.</i>
ASM Transformed	Airway Smooth Muscle Cells	Human	GeneSilencer Reagent	Tran, T., Ens-Blackie, K., Rector, E.S., Stelmack, G.L., McNeill, K.D., Tarone, G., Gerthoffer, W.T., Unruh, H. and Halayko, A.J. (2007) Laminin-binding Integrin $\alpha 7$ is Required for Contractile Phenotype Expression by Human Airway Myocyte. <i>Am. J. Respir. Cell Mol. Biol.</i> 37(6): 668-80.
HEK-293	Embryonic Kidney	Human	GeneSilencer Reagent	Noma, T., Lemaire, A., Prasad, S.V.N., Barki-Harrington, L., Tilley, D.G., Chen, J., Le Corvoisier, P., Violin, J.D., Wei, H., Lefkowitz, R.J. and Rockman, H.A. (2007) $\beta$ -Arrestin mediated $\beta 1$ -adrenergic receptor transactivation of the EGFR confers cardioprotection. <i>J. Clin. Invest.</i> 117(9): p. 2445-2458.
HeLa	Cervical Carcinoma	Human	GeneSilencer Reagent	Bentley, A.M., Normand, G., Hoyt, J. and King, R.W. (2007) Distinct Sequence Elements of Cyclin B1 Promote Localization to Chromatin, Centrosomes, and Kinetochores during Mitosis. <i>Mol. Biol. Cell</i> , Dec 2007; 18: 4847 - 4858.

Cell Line	Cell Type	Source	Genlantis Product	Citation
HeLa	Cervical Carcinoma	Human	GeneSilencer Reagent	Zhu, S., Wang, W., Clarke, D.C. and Liu, X. (2007) Activation of Mps1 Promotes Transforming GrowthFactor- $\beta$ -independent Smad Signaling. <i>J. Biol Chem.</i> 282 (25) 18327; 18338.
HEK-293	Embryonic Kidney	Human	GeneSilencer Reagent	Kani, S., Nakayama, E., Yoda, A., Onishi, N., Sougawa, N., Hazaka, Y., Umeda, T., Takeda, K., Ichijo, H., Hamada, Y. and Minami, Y. (2007) Chk2 kinase is required for methylglyoxal-induced G2/M cell-cycle checkpoint arrest: implication of cell-cycle checkpoint regulation in diabetic oxidative stress signaling. <i>Genes Cells.</i> 12(8): 919-928.
Primary	Cortical Neurons	Mouse	GeneSilencer Reagent	Cui, H., Hayashi, A., Sun, H-S, Belmares, M.P., Cobey, C., Phan, T., Schweizer, J., Salter, M.W., Wang, Y.T., Tasker, R.A., Garman, D., Rabinowitz, J., Lu, P.S. and Tymianski, M. (2007) PDZ Protein Interactions Underlying NMDA Receptor-Mediated Excitotoxicity and Neuroprotection by PSD-95 Inhibitors. <i>J. Neurosci.</i> 27(37): 9901-9915.
U20S	Osteosarcoma	Human	GeneSilencer Reagent	Hotulainen P. and Lappalainen, P. (2006) Stress fibers are generated by two distinct actin assembly mechanisms in motile cells <i>J. Cell Biol.</i> 173(3): 383-394.
Primary	Pulmonary Artery Endothelium	Human	GeneSilencer Reagent	Zhuwei Li, Xhevahire Hyseni, Jacqueline D. Carter, Joleen M. Soukup, Lisa A. Dailey, and Yuh-Chin T. Huang (2006) Pollutant particles enhanced H <sub>2</sub> O <sub>2</sub> production from NAD(P)H oxidase and mitochondria in human pulmonary artery endothelial cells. <i>Am J Phvsiol Cell Phvsiol</i> 291:

Cell Line	Cell Type	Source	Genlantis Product	Citation
				C357 - C365.
Primary	Cortical Neurons	Mouse	GeneSilencer Reagent	Burkhalter, J., Fiumelli, H., Erickson, J.D. and Martin, J-L. (2007) A critical role for system a amino acid transport in the regulation of dendritic development by BDNF. J Biol Chem 282: 5152 - 5159.
Primary	Dendritic Cells	Human	GeneSilencer Transfection Reag	Smith, A.L., Ganesh, L., Leung, K., Jongstra-Bilen, J., Jongstra, J. and Nabel, G.J. (2007) Leukocyte-specific protein 1 interacts with DC-SIGN and mediates transport of HIV to the proteasome in dendritic cells. J. Exp. Med. 204(2): p. 421-430.
HEk-293	Embryonic Kidney	Human	GeneSilencer Reagent	El-Shewy, H.M., Johnson, K.R., Lee, M-H, Jaffa, A.A., Obeid, L.M. and Luttrell, L.M. (2006) Insulin-like Growth Factors Mediate Heterotrimeric G Protein-dependent ERK1/2 Activation by Transactivating Sphingosine 1-Phosphate Receptors . J. Biol. Chem. 281(42): 31399-31407.
Primary	Cortical Neurons	Mouse	GeneSilencer Reagent	Supnet, C., Grant, J., Kong, H., Westaway, D. and Mayne, M. (2006) Amyloid $\beta$ -(1-42) Increases Ryanodine Receptor-3 Expression and Function in TgCRND8 Mice. J. Biol. Chem. 281: 38440 - 38447.
HEk-293	Embryonic Kidney	Human	GeneSilencer Reagent	Rajagopal, K., Whalen, E.J., Violin, J.D., Stiber, J.A., Rosenberg, P.B., Premont, R.T., Coffman, T.M., Rockman, H.A. and Lefkowitz, R.J. (2006) $\beta$ -Arrestin2-mediated inotropic effects of the angiotensin II type 1A receptor in isolated cardiac myocytes. PNAS. 103: 16284 - 16289.

Cell Line	Cell Type	Source	Genlantis Product	Citation
HEK-293	Embryonic Kidney	Human	GeneSilencer Reagent	Kara, E., Crepieux, P., Gauthier, C., Martinat, N., Piketty, V., Guillou, F., and Reiter, E. (2006) A Phosphorylation Cluster of Five Serine and Threonine Residues in the C-Terminus of the Follicle-Stimulating Hormone Receptor Is Important for Desensitization But Not for $\beta$ -Arrestin-Mediated ERK Activation. <i>Mol. Endocrinol.</i> 20(11): p. 3014-3026.
Primary	Dendritic Cells (Bone Marrow)	Mouse	GeneSilencer Reagent	<a href="#">Chung, J-S, Sato, K., Dougherty, I.I., Cruz, Jr., P.D. and Ariizumi, K. (2007) DC-HIL is a negative regulator of T lymphocyte activation. <i>Blood.</i> 109(10): p. 4320-4327.</a>
Primary	Retinal Ganglion	Rat	GeneSilencer Transfection Reagent	Hayashi, H., Campenot, R.B., Vance, D.E. and Vance, J.E. (2007) Apolipoprotein E-Containing Lipoproteins Protect Neurons from Apoptosis via a Signaling Pathway Involving Low-Density Lipoprotein Receptor-Related Protein-1. <i>J. Neurosci.</i> 27(8): 1933-1941.
Primary	Macrophage	Mouse	GeneSilencer Reagent	<a href="#">Wang, Y., Chen, T., Han, C., He, D., Liu, H., An, H., Cai, Z. and Cao, X. (2007) Lysosome-associated small Rab GTPase Rab7b negatively regulates TLR4 signaling in macrophages by promoting lysosomal degradation of TLR4. <i>Blood</i> 110: 962 - 971.</a>
N/A	N/A	N/A	GeneSilencer pGSH1-GFP shRNA	Someya, A., Moss, J. and Nagaoka, I. (2006) Involvement of a guanine nucleotide-exchange protein, ARF-GEP <sub>100</sub> /BRAG2a, in the apoptotic cell death of monocytic phagocytes. <i>J. Leukoc. Biol.</i> 80(4): 915-921.

Cell Line	Cell Type	Source	Genlantis Product	Citation
HEK-293	Embryonic Kidney	Human	GeneSilencer Reagent	Violin, J.D., DeWire, S.M., Barnes, W.G. and Lefkowitz, R.J. (2006) G Protein-Coupled Receptor Kinase and $\beta$ -arrestin mediated desensitization of the angiotensin II type 1 <sub>A</sub> receptor elucidated by diacylglycerol dynamics. <i>J. Biol. Chem.</i> 281: 36411 - 36419.
Primary	Dendritic Cells	Mouse	GeneSilencer Reagent	Zheng, X., Koropatnick, J., Li, M., Zhang, X., Ling, F., Ren, X., Hao, X., Sun, H., Vladau, C., Franek, J.A., Feng, B., Urquhart, B.L., Zhong, R., Freeman, D.J., Garcia, B. and Min, W-P. (2006) Reinstalling Antitumor Immunity by Inhibiting Tumor-Derived Immunosuppressive Molecule IDO through RNA Interference. <i>J. Immunol.</i> 177(8): 5639-5646.

Cell Line	Cell Type	Source	Genlantis Product	Citation
Primary	Dendritic Cells	Mouse	GeneSilencer Reagent	Zheng, X., Koropatnick, J., Li, M., Zhang, X., Ling, F., Ren, X., Hao, X., Sun, H., Vladau, C., Franek, J.A., Feng, B., Urquhart, B.L., Zhong, R., Freeman, D.J., Garcia, B. and Min, W-P. (2006) Reinstalling Antitumor Immunity by Inhibiting Tumor-Derived Immunosuppressive Molecule IDO through RNA Interference. <i>J. Immunol.</i> 177(8): 5639-5646.
H441	Lung Adenocarcinoma	Human	GeneSilencer Reagent	Zhang, Y-A., Nemunaitis, J., Samuel, S.K., Chen, P., Shen, Y. and Tong, A.W. (2006) Antitumor Activity of an Oncolytic Adenovirus-Delivered Oncogene Small Interfering RNA. <i>Cancer Res.</i> 66(19): 9736-9743.
HeLa	Cervical Carcinoma	Human	GeneSilencer Reagent	Shulga, N. and Pastorino, J.G. (2006) Acyl Coenzyme A-binding Protein Augments Bid-induced Mitochondrial Damage and Cell Death by Activating $\mu$ -Calpain. <i>J. Biol. Chem.</i> 281(41): 30824-30833.
HEK-293	Embryonic Kidney	Human	GeneSilencer Reagent	Violin, J.D., DeWire, S.M., Barnes, W.G. and Lefkowitz, R.J. (2006) G Protein-coupled Receptor Kinase and beta-Arrestin-mediated Desensitization of the Angiotensin II Type 1A Receptor Elucidated by Diacylglycerol Dynamics. <i>J. Biol. Chem.</i> 281(47): p. 36411-36419.
Primary	Lacrimal Gland Acinar Cells	Rabbit	GeneSilencer Reagent	Xie, J., Chiang, L., Contreras, J., Wu, K., Garner, J.A., Medina-Kauwe, L. and Hamm-Alvarez, S.F. (2006) Novel Fiber-Dependent Entry Mechanism for Adenovirus Serotype 5 in Lacrimal Acini. <i>J. Virol.</i> 80(23): 11833 - 11851.
HUT-78	T Cells	Human	GeneSilencer Reagent	Maneechotesuwan, K., Xin, Y., Ito, K., Jazrawi, E., Lee, K-Y., Usmani, O.S., Barnes, P.J. and Adcock, I.M. (2007) Regulation of Th2 Cytokine Genes by p38 MAPK-Mediated Phosphorylation of GATA-3. <i>J. Immunol.</i> 178(4): 2491-2498.
HCT-116	Colon Adenocarcinoma	Human	GeneSilencer Reagent	Yao, K., Shida, S., Selvakumaran, M., Zimmerman, R., Simon, E., Schick, J., Haas, N.B. Balke, M., Ross, H., Johnson, S.W. and O'Dwyer, P.J. (2005) Macrophage Migration Inhibitory Factor Is a Determinant of Hypoxia-Induced Apoptosis in Colon Cancer Cell Lines. <i>Clin. Can. Res.</i> 11:

Cell Line	Cell Type	Source	Genlantis Product	Citation
				7264-7272.
HT29	Colon Adenocarcinoma	Human	GeneSilencer Reagent	Yao, K., Shida, S., Selvakumaran, M., Zimmerman, R., Simon, E., Schick, J., Haas, N.B. Balke, M., Ross, H., Johnson, S.W. and O'Dwyer, P.J. (2005) Macrophage Migration Inhibitory Factor Is a Determinant of Hypoxia-Induced Apoptosis in Colon Cancer Cell Lines. Clin. Can. Res. 11: 7264-7272.
Primary	Dendritic Cells	Mouse	GeneSilencer Reagent	Li, M., Zhang, X., Zheng, X., Lian, D., Zhang, Z-X., Ge, W., Yang, J., Vladau, C., Suzuki, M., Chen, D., Zhong, R., Garcia, B., Jevnikar, A.M. and Min, W-P (2007) Immune Modulation and Tolerance Induction by RelB-Silenced Dendritic Cells through RNA Interference. J. Immunol. 178(9): p. 5480-5487.
SW480	Colon Adenocarcinoma	Human	GeneSilencer Reagent	Zhu, S., Wang, W., Clarke, D.C. and Liu, X. (2007) Activation of Mps1 promotes TGF-beta independent Smad signaling. J. Biol. Chem. 282(25): p. 18327-18338.
HeLa	Cervical Carcinoma	Human	GeneSilencer Reagent	Chung, J-S., Sato, K., Dougherty, I.I., Cruz, Jr., P.D. and Ariizumi, K. (2007) DC-HIL is a negative regulator of T lymphocyte activation. Blood. 109(10): p. 4320-4327.
HEK-293	Embryonic Fibroblast	Human	GeneSilencer Reagent	Barthet, G., Framery, B., Gaven, F., Pellissier, L., Reiter, E., Claeysen, S., Bockaert, J. and Dumuis, A. (2007) 5-Hydroxytryptamine 4 Receptor Activation of the Extracellular Signal-regulated Kinase Pathway Depends on Src Activation but Not on G Protein or beta-Arrestin Signaling. Mol. Biol. Cell. 18(6): 1979-1991.
HCP40	Colon adenocarcinoma	null	GeneSilencer	Yao, K., Shida, S., Selvakumaran, M., Zimmerman, R., Simon, E., Schick, J., Haas, N.B., Balke, M., Ross, H., Johnson, S.W. and O'Dwyer, P.J. (2005) Macrophage Migration Inhibitory Factor Is a Determinant of Hypoxia-Induced Apoptosis in Colon Cancer Cell Lines. Clin Cancer Res. 11 (20): 7264 - 7272.

Cell Line	Cell Type	Source	Genlantis Product	Citation
H22	Hepatoma	Mouse	GeneSilencer Reagent	Huang, B., Zhao, J., Shen, S., Li, H., He, K-L, Shen, G-X, Mayer, L., Unkeless, J., Li, D., Yuan, Y., Zhang, G.-M., Xiong, H. and Feng, Z.-H. (2007) <i>Listeria monocytogenes</i> Promotes Tumor Growth via Tumor Cell Toll-Like Receptor 2 Signaling. <i>Cancer Res.</i> 67(9): p. 4346-4352.
MG63	Osteosarcoma	Human	GeneSilencer Reagent	Ichikawa, T., Horie-Inoue, K., Ikeda, K., Blumberg, B. and Inoue, S. (2007) Vitamin K2 induces phosphorylation of protein kinase A and expression of novel target genes in osteoblastic cells. <i>J Mol Endocrinol</i> 1 39 (4): 239.
Primary	Cardiac Fibroblast	Mouse	GeneSilencer Reagent	Hu, C., Dandapat, A., Sun, L., Khan, J.A., Liu, Y., Hermonat, P.L. and Mehta, J.L. (2008) Regulation of TGFbeta 1-mediated collagen formation by LOX-1: Studies based on forced over-expression of TGFbeta 1 in wild-type and LOX-1 knockout mice cardiac fibroblasts. <i>J. Biol. Chem.</i> 283 (16) 10226-10231.