

GenePORTER™ Transfection Reagent Citations

(In alphabetical order by cell line and then by first author's last name)

GenePORTER 2 Reagent

- Highest transfection efficiency
- Best with hard-to-transfect cells
- Delivers with or without serum

75 reactions (0.75 ml) • Cat. No. T202007

150 reactions (1.5 ml) • Cat. No. T202015

GenePORTER Reagent

- Ideal for serum-free medium
- Effective with diverse cell lines
- Cost effective

75 reactions (0.75 ml) • Cat. No. T201007

150 reactions (1.5 ml) • Cat. No. T201015

Cell Line	Cell Type	Source	References
3T3-L1	Embryo	Swiss Mouse	Calkhoven, C.F., Muller, and C., Leutz, A. (2000) Translational Control of C/EBP α and C/EBP β Isoform Expression. <i>Genes & Dev.</i> 14 : 1920-1932. Gubitza, A.K., Mourelatos, Z., Abel, L., Rappsilber, J., Mann, M., and Dreyfuss, G. (2002) Gemin5, a Novel WD Repeat Protein Component of the SMN Complex That Binds Sm Proteins <i>J. Biol. Chem.</i> , 277 : 5631 - 5636.
7CG4	Glial	Rat	Clark, Jr, R.E., Miskimins, W.K., and Miskimins, R. (2002) Phosphatidylinositol-3 kinase p85 enhances expression from the myelin basic protein promoter in oligodendrocytes <i>J. Neurochem.</i> 83 : 565 - 573.
10T1/2	Embryonic Fibroblast	Mouse	Singh, R.A.K., Wu, L., and Barry, M.A. (2002) Generation of Genome-Wide CD8 T Cell Responses in HLA-A*0201 Transgenic Mice by an HIV-1 Ubiquitin Expression Library Immunization Vaccine <i>J. Immunol.</i> 168 : 379.
A2780	Ovarian Carcinoma	Human	Pan, Z-Z, Bruening, W., Giasson, B.I., Lee, V.M.Y. and Godwin, A.K. (2002) Synuclein promotes cancer cell survival and inhibits stress- and chemotherapeutic drug-induced apoptosis by modulating MAPK pathways. <i>J. Biol. Chem</i> 201650200.
A498	Renal Cell Carcinoma	Human	Angelo, L.S., Talpaz, M., and Kurzrock, R. (2002) Autocrine Interleukin-6 Production in Renal Cell Carcinoma: Evidence for the Involvement of p53. <i>Cancer Res.</i> 62 : 932.
A549	Lung Carcinoma	Human	Alcorn, M.J., Booth, J.L., Coggeshall, K.M., Metcalf, J.P. (2001) Adenovirus Type 7 Induces Interleukin-8 Production via Activation of Extracellular Regulated Kinase 1/2, <i>J. Virology</i> 75 : 6450-59. Das, K.C., (2001) c-Jun NH2-terminal Kinase-mediated Redox-dependent Degradation of IB. Role of Thioredoxin in NF-B Activation, <i>J. Biol. Chem.</i> 2001 276 : 4662-4670.



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A549	Lung Carcinoma	Human	Wu, M., Kelley, M.R., Hansen, W.K., Martin II, W.J. (2001) Reduction of BCNU Toxicity to Lung Cells by High-Level Expression of <i>O</i> ⁶ -methylguanine-DNA methyltransferase. <i>AJP Lung Cellr Molec Phys</i> 280 : L755-L761.
A7r5	Embryonic Fibroblast (Heart)	Rat	Carlini, L.E., Getz, M.J., Strauch, A.R., and Kelm Jr, R.J. (2001) Cryptic MCAT enhancer regulation in fibroblasts and smooth muscle cells: Suppression of TEF-1 mediated activation by the single-stranded DNA-binding proteins, Pur, Pur, and MSY1 <i>J. Biol. Chem</i> , Dec 2001; 109754200.
AML14	Eosinophil	Human	Qin, Y., Camoretti-Mercado, B., Blokh, L., Long, C.G., Ko, F.D., and Hamann, K.J. (2002) Fas Resistance of Leukemic Eosinophils Is Due to Activation of NF- κ B by Fas Ligation. <i>J. Immunol.</i> 169 : 3536 - 3544.
B78-H1	Melanoma	Mouse	Connolly, S.A., Landsburg, D.J., Carfi, A., Wiley, D.C., Eisenberg, R.J., and Cohen, G.H., (2002) Structure-Based Analysis of the Herpes Simplex Virus Glycoprotein D Binding Site Present on Herpesvirus Entry Mediator HveA (HVEM) <i>J. Virol.</i> 76 : 10894 - 10904.
BAEC	Aortic Endothelium	Cow	Du, X-L., Edelstein, D., Rossetti, L., Fantus, I.G., Goldberg, H., Ziyadeh, F., Wu, J., and Brownlee, M., (2000) Hyperglycemia-induced mitochondrial superoxide overproduction activates the hexosamine pathway and induces plasminogen activator inhibitor-1 expression by increasing Sp1 glycosylation <i>Proc. Natl. Acad. Sci. USA</i> 97 : 12222-12226. Synnestvedt, K., Furuta, G.T., Comerford, K.M., Louis, N., Karhausen, J., Eltzschig, H.K., Hansen, K.R., Thompson, L.F., and Colgan, S.P. (2002) Ecto-5'-nucleotidase (CD73) regulation by hypoxia-inducible factor-1 mediates permeability changes in intestinal epithelia. <i>J. Clin. Invest.</i> 110 : 993 - 1002.
Balb/c-3T3	Embryonic Fibroblast	Mouse	Idelman, G., Glaser, T., Roberts Jr., C.T., and Werner, H. (2003) WT1-p53 Interactions in Insulin-like Growth Factor-I Receptor Gene Regulation <i>J. Biol. Chem.</i> 278 : 3474 - 3482.
BCBL-1	Body Cavity-Based Lymphoma	Human	Bowser, B.S., DeWire, S.M., and Damania, B. (2002) Transcriptional Regulation of the K1 Gene Product of Kaposi's Sarcoma-Associated Herpesvirus. <i>J. Virol.</i> 76 : 12574 - 12583.
BCL1-3B3	B Cell Lymphoma	Mouse	Cragg, M.S., Morgan, S.M., Chan, H. T.C., Morgan, B.P., Filatov, A. V., Johnson, P.W.M., French, R.R. and Glennie, M.J. (2003) Complement-mediated lysis by anti-CD20 mAb correlates with segregation into lipid rafts. <i>Blood</i> 101 : 1045 - 1052.
BeWo	Epithelial Choriocarcinoma	Human	Yu, C., Shen, K., Lin, M., Chen, P., Lin, C., Chang, G-D and Chen, H. (2002) GCMA Regulates the Syncytin-mediated Trophoblastic Fusion <i>J. Biol. Chem.</i> 277 : 50062 - 50068.
BT10 BT12	Glioblastoma	Human	Kawakami, K., Kawakami, M., Leland, P. and Puri, R.K. (2002) Internalization Property of Interleukin-4 Receptor Chain Increases Cytotoxic Effect of Interleukin-4 Receptor-targeted Cytotoxin in Cancer Cells <i>Clin. Cancer Res.</i> 8 : 258 - 266.



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BT-474	Ductal Carcinoma; Mammary Gland; Breast	Human	Orlowski, R., Small, G, and Shi, Y., (2002) Evidence That Inhibition of p44/42 Mitogen-activated Protein Kinase Signaling Is a Factor in Proteasome Inhibitor-mediated Apoptosis <i>J. Biol. Chem</i> 277 : 27864 - 27871.
C2	Prostate Cancer	Human	Virolle, T., Krones-Herzig, A., Baron, V., de Gregorio, G., Adamson, E.D. and Mercola, D. (2003) Egr1 promotes growth and survival of prostate cancer cells: identification of novel Egr1 target genes. <i>J. Biol. Chem.</i> 210279200.
C2C12	Myoblast	Mouse	Gao, X., Chandra, T., Gratton, M-O, Quélo, I., Prud'homme, J., Stifani, S., and St-Arnaud, R. (2001) HES6 acts as a transcriptional repressor in myoblasts and can induce the myogenic differentiation program. <i>J. Cell Biol.</i> 154 : 1161-1172. Weins, A., Schwarz, K., Faul, C., Barisoni, L., Linke, W.A., and Mundel P. (2001) Differentiation- and stress-dependent nuclear cytoplasmic redistribution of myopodin, a novel actin-bundling protein. <i>J. Cell Biol.</i> 155 : 393-404.
C6	Glioma	Rat	Kalandadze, A., Wu, Y., and Robinson, M.B. (2002) Protein Kinase C Activation Decreases Cell Surface Expression of the GLT-1 Subtype of Glutamate Transporter. Requirement of a Carboxyl-Terminal Domain and Partial Dependence on Serine 486. <i>J. Biol. Chem.</i> 277 : 45741 - 45750.
CFT1	Tracheal Epithelium	Human	Poschet, J.F., Skidmore, J., Boucher, J.C., Firoved, A.M, Van Dyke, R.W., and Deretic, V. (2002) Hyperacidification of cellubrevin endocytic compartments and defective endosomal recycling in cystic fibrosis respiratory epithelial cells. <i>J. Biol. Chem,</i> 277 : 13959-13965.
Cf2Th	Thymus	Dog	Babcock, G.J., Mirzabekov, T., Wojtowicz, W., and Sodroski, J. (2001) Ligand Binding Characteristics of CXCR4 Incorporated into Paramagnetic Proteoliposomes. <i>J. Biol. Chem</i> 276 : 38433-38440. [Stable transfection] Mirzabekov, T., Bannert, N., Farzan, M., Hofmann, W., Kolchinsky, P., Wu, L., Wyatt, R., and Sodroski, J., Enhanced Expression, Native Purification, and Characterization of CCR5, a Principal HIV-1 Coreceptor <i>J. Biol. Chem.</i> 1999 274 : 28745-28750.
CHO CHO-K1	Ovary	Chinese Hamster	Augustin, L., Mavinakere, M., Morizono, H., and Tuchman, M. (2000) Expression of Wild-Type and Mutant Human Ornithine Transcarbamylase Genes in Chinese Hamster Ovary Cells and Lack of Dominant Negative Effect of R141Q and R40H Mutants. <i>Pediatric Research</i> 48 : 842-846.



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CHO CHO-K1	Ovary	Chinese Hamster	<p>Chang, D-J., Li, X-C., Lee, Y-S., Kim, H-K., Kim, U.S., Cho, N.J., Lo, X., Weiss, K., Kandel, E., Kaang, B-K. (2000) Activation of a heterologously expressed octopamine receptor coupled only to adenylyl cyclase produces all the features of presynaptic facilitation in Aplysia sensory neurons. <i>Proc. Natl. Acad. Sci. USA</i>, 97: 1829-1834.</p> <p>Feng, Y-H., Sun, Y. and Douglas, J.G. (2002) G$\beta\gamma$-independent constitutive association of Gα_s with SHP-1 and angiotensin II receptor AT$_2$ is essential in AT$_2$-mediated ITIM-independent activation of SHP-1. <i>PNAS</i> 99: 12049 - 12054.</p> <p>Furuyama, K. and Sassa, S. (2000) Interaction Between Succinyl CoA Synthetase and the Heme-Biosynthetic Enzyme ALAS-E is Disrupted in Sideroblastic Anemia. (2000) <i>J. Clin Invest.</i> 105: 757.</p> <p>Kawakami, K., Kawakami, M., Leland, P., and Puri, R.K., (2002) Internalization Property of Interleukin-4 Receptor Chain Increases Cytotoxic Effect of Interleukin-4 Receptor-targeted Cytotoxin in Cancer Cells. <i>Clin. Cancer Res.</i> 8: 258 – 266.</p> <p>Kawakami, K., Taguchi, J., Murata, T., Puri, R. (2001) The interleukin-13 receptor $\alpha 2$ chain: an essential component for binding and internalization but not for interleukin-13-induced signal transduction through the STAT6 pathway <i>Blood</i> 97: 2673-2679.</p> <p>Paine-Saunders, S., Viviano, B.L., Economides, A.N., and Saunders, S., (2002) Heparan Sulfate Proteoglycans Retain Noggin at the Cell Surface. A Potential Mechanism for Shaping Bone Morphogenetic Protein Gradients. <i>J. Biol. Chem.</i>, 277: 2089 - 2096.</p> <p>Slepnev, V., Ochoa, G.-C., Butler, M., De Camilli, P. (2000) Tandem Arrangement of the Clathrin and AP-2 Binding Domains in Amphiphysin 1 and Disruption of Clathrin Coat Function by Amphiphysin Fragments Comprising These Sites- <i>J. Biol Chem.</i> 275: 17583-17589.</p>
CL-V4B	Mutant	Chinese Hamster	<p>Godthelp, B., Wiegant, W., van Duijn-Goedhart, A. Schärer, O., van Buul, P.P.W., Kanaar, R. and Zdzienicka, M. (2002) Mammalian Rad51C contributes to DNA cross-link resistance, sister chromatid cohesion and genomic stability. <i>Nucleic Acids Res.</i> 30: 2172 - 2182.</p>
COLO587	Pancreatic Cancer	Human	<p>Kawakami, K., Kawakami, M., Leland, P., and Puri, R.K., (2002) Internalization Property of Interleukin-4 Receptor Chain Increases Cytotoxic Effect of Interleukin-4 Receptor-targeted Cytotoxin in Cancer Cells. <i>Clin. Cancer Res.</i> 8: 258 – 266.</p>



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COS-1	Kidney	Green Monkey	<p>Bai, R-Y, Ouyang, T., Miething, C., Morris, S.W., Peschel, C., Duyster, J. (2000) Nucleophosmin-anaplastic Lymphoma Kinase Associated with Anaplastic Large-Cell Lymphoma Activates the Phosphatidylinositol 3-kinase/Akt Antiapoptotic Signaling Pathway <i>Blood</i> 96: 4319-4327.</p> <p>Bedecarrats, G.Y., Linher, K.D. and Kaiser, U.B. (2003) Two Common Naturally Occurring Mutations in the Human Gonadotropin-Releasing Hormone (GnRH) Receptor Have Differential Effects on Gonadotropin Gene Expression and on GnRH-Mediated Signal Transduction. <i>J. Clin. Endocrinol. Metab.</i> 88: 834 - 843.</p> <p>Gombart, A.F., Shiohara, M., Kwok, S.H., Agematsu, A., Komiyama, A., Koeffler, H.P., (2001) Neutrophil-specific granule deficiency: homozygous recessive inheritance of a frameshift mutation in the gene encoding transcription factor CCAAT /enhancer binding protein-ε. <i>Blood</i> 97: 2561-2567.</p> <p>Kalbfuss, B., Mabon, S.A., and Misteli, T. (2001) Correction of alternative splicing of tau in frontotemporal dementia and parkinsonism linked to chromosome 17. <i>J. Biol. Chem</i> 0: 105113200-1. [Oligo transfection]</p> <p>Liang, W-J, Johnson, D., Ma, L-S, and Jarvis, S., (2002) Regulation of the human sodium-dependent vitamin C transporters hSVCT1 and hSVCT2 expressed in COS-1 cells by protein kinase C <i>Am J Physiol Cell Physiol</i>: 4612001.</p> <p>Ma, J. and Lindquist, S. (2001) Wild-type PrP and a mutant associated with prion disease are subject to retrograde transport and proteasome degradation. <i>PNAS</i> 98: 14955 - 14960.</p> <p>Mirzabekov, T., Bannert, N., Farzan, M., Hofmann, W., Kolchinsky, P., Wu, L., Wyatt, R., and Sodroski, J., Enhanced Expression, Native Purification, and Characterization of CCR5, a Principal HIV-1 Coreceptor. <i>J. Biol. Chem.</i> 1999 274: 28745-28750.</p> <p>Wong, E.S.M., Fong, C.W., Lim, J., Yusoff, P., Low, B.C., Langdon, W.Y. and Guy, G.R. (2002) Sprouty2 attenuates epidermal growth factor receptor ubiquitylation and endocytosis, and consequently enhances Ras/ERK signaling. <i>EMBO J.</i> 21: 4796 - 4808.</p> <p>Yu, J-Z and Rasenick, M.M. (2002) Real-Time Visualization of a Fluorescent Gs: Dissociation of the Activated G Protein from Plasma Membrane <i>Mol. Pharmacol.</i> 61: 352 – 359.</p>



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COS-7	Kidney	Green Monkey	<p>Bertaso, F., Ward, R.J., Viard, P., Milligan, G. and Dolphin, A.C. (2003) Mechanism of Action of G_q to Inhibit G_{βγ} Modulation of Ca_v2.2 Calcium Channels: Probed by the Use of Receptor-G_α Tandems. <i>Mol. Pharmacol.</i> 63: 832 - 843.</p> <p>Bharadwaj, D., Stein, M-P, Volzer, M., Mold, C., and Du Clos, T.W. (1999) The Major Receptor for C-Reactive Protein on Leukocytes is Fcγ Receptor II. <i>J. Exp. Med.</i> 190: 585-590.</p> <p>Gatanaga, H., Suzuki, Y., Tsang, H., Yoshimura, K., Kavlick, M.F., Nagashima, K., Gorelick, R.J., Mardy, S., Tang, C., Summers, M.F., and Mitsuya, H., (2002) Amino Acid Substitutions in Gag Protein at Non-cleavage Sites Are Indispensable for the Development of a High Multitude of HIV-1 Resistance against Protease Inhibitors <i>J. Biol. Chem</i> 277: 5952 – 5961.</p> <p>Faraldo, M., Deugnier, M-A, Tlouzeau, S., Thiery, J.P., and Glukhova, M. (2002) Perturbation of β-integrin Function in Involuting Mammary Gland Results in Premature Dedifferentiation of Secretory Epithelial Cells. <i>Mol. Biol. Cell</i>: 20200861.</p> <p>Feng, Y-H., Sun, Y. and Douglas, J.G. (2002) G_{βγ}-independent constitutive association of G_{αs} with SHP-1 and angiotensin II receptor AT₂ is essential in AT₂-mediated ITIM-independent activation of SHP-1. <i>PNAS</i> 99: 12049 - 12054.</p> <p>Fischer, D.D., Cai,R., Bhatia, U., Asselbergs, F.A. M., Song, C., Terry, R., Trogani, N., Widmer, R., Atadja, P., and Cohen, D. (2002) Isolation and Characterization of a Novel Class II Histone Deacetylase, HDAC10 <i>J. Biol. Chem</i> 277: 6656 - 6666.</p> <p>Fitzgerald, E.M. (2002) The presence of Ca²⁺ channel β subunit is required for mitogen-activated protein kinase (MAPK)-dependent modulation of 1B Ca²⁺ channels in COS-7 cells <i>J. Physiol</i>: 543: 425-437.</p> <p>Jiang, H., Peterson, R.S., Wang, W., Bartnik, E., Knudson, C.B., and Knudson W. (2002) Requirement for the CD44 cytoplasmic domain for Hyaluronan binding, pericellularmatrix assembly, and receptor-mediated endocytosis in COS-7 cells <i>J. Biol. Chem</i> 277: 10531- 10538.</p> <p>Jin, T-G, Satoh, T., Liao, Y., Song, C., Gao, X., Kariya, K., Hu, C-D, and Kataoka, T., (2001) Role of the CDC25 homology domain of PLC in amplification of Rap1-dependent signaling <i>J. Biol. Chem</i> 276: 30301-30307.</p> <p>Kawahara, A., Wilm, T., Solnica-Krezel, L., Dawid, I. (2000) Antagonistic role of vegal and bozozok/dharma homeobox genes in organizer formation, <i>Proc. Natl. Acad. Sci. USA</i> 97: 12121-26.</p>



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COS-7	Kidney	Green Monkey	<p>Kawakami, K., Takeshita, F., and Puri, R.K., (2001) Identification of Distinct Roles for a Dileucine and a Tyrosine Internalization Motif in the Interleukin (IL)-13 Binding Component IL-13 Receptor 2 Chain, <i>J. Biol. Chem.</i> 276: 25114-25120.</p> <p>Leung, C.L., Sun, D., Zheng, M., Knowles, D.R., and Liem, R.K.H. (1999) Microtubule Actin Cross-Linking Factor (MACF): A Hybrid of Dystonin and Dystrophin That Can Interact With the Actin and Microtubule Cytosketons. <i>J. Cell Biol.</i> 147: 1275-1286.</p> <p>Li, D-P, Periyasamy, S., Jones, T.J., and Sanchez, E.R. (2000) Heat and Chemical Shock Potentiation of Glucocorticoid Receptor Transactivation Requires Heat Shock Factor (HSF) Activity. <i>J. Biol. Chem.</i> 275: 26058.</p> <p>Lin-, C-Y., Madsen, M, Yarm, Y-J, Liu, X., Erikson, R., (2000) Peripheral Golgi protein GRASP65 is a target of mitotic polo-like kinase (Plk) and Cdc2, <i>Proc. Natl. Acad. Sci. USA</i> 97: 12589-12594.</p> <p>Liao, Y., Satoh, T., Gao, X., Jin, T-G, Hu, C-D, and Kataoka, T., RA-GEF-1, a Guanine Nucleotide Exchange Factor for Rap1, Is Activated by Translocation Induced by Association with Rap1.GTP and Enhances Rap1-dependent B-Raf Activation. <i>J. Biol. Chem</i> 276: 28478-28483.</p> <p>Moss, F., Viard, P., Davies, A., Bertaso, F., Page, K., Graham, A., Cantí, C., Plumpton, M. Plumpton, C., Clare, J., and Dolphin, A. (2002). The novel product of a five-exon stargazin-related gene abolishes CaV2.2 calcium channel expression. <i>EMBO J.</i> 21: 1514 - 1523.</p> <p>Olah, Z., Karai, L., and Iadarola, M.J. (2001) Anandamide Activates Vanilloid Receptor 1 (VR1) at Acidic pH in Dorsal Root Ganglia Neurons and Cells Ectopically Expressing VR1. <i>J. Biol. Chem</i> 276: 31163-31170.</p> <p>Tang X.D., Daggett, H., Hanner, M., Garcia, M.L., McManus, O.B., Brot, N., Weissbach, H., Heinemann, S.H., Hoshi, T. (2001) Oxidative Reduction of Large Conductance Calcium-activated Potassium Channels <i>J. Gen Phys</i> 117: 253-274.</p> <p>Trotti, D., Aoki, M., Pasinelli, P., Berger, U., Danbolt, N., Brown, R., Hediger, M., (2001) Amyotrophic Lateral Sclerosis-Linked Glutamate Transporter Mutant has Impaired Glutamate Clearance Capacity. <i>J. Biol. Chem</i> 276: 576.</p> <p>Xie, L-H, John, S. and Weiss, J. (2002) Spermine Block of the Strong Inward Rectifier Potassium Channel Kir2.1: Dual Roles of Surface Charge Screening and Pore Block <i>J. Gen. Physiol.</i> 120: 53 - 66.</p>



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COS-7	Kidney	Green Monkey	Zunkler, B.J., Kuhne, S., Rustenbeck, I., and Ott, T. (2000) Mechanism of Terfenadine Block of ATP-sensitive K ⁺ Channels <i>Brit. J. Pharm</i> 130 : 1571-1574.
E8.2T4	Fibroblast	Mouse	Rebuffat, A., Nawrocki, A., Nielsen, P., Bernasconi, A., Bernal-Mendez, E., Frey, B., and Frey, F. (2002) Gene delivery by a steroid-peptide nucleic acid conjugate. <i>FASEB J</i> 107061.
ECV304	Bladder Carcinoma	Human	Tang, S., Gao, Y., and Ware, J.A. (1999) Enhancement of Endothelial Cell Migration and In Vitro Tube Formation by TAP20, A Novel β 5 Integrin-Modulating, PKC θ – Dependent Protein. <i>J. Cell Biol.</i> 147 : 1073-1084.
EDC	Early-Differentiated Cells from Mouse Embryonic Stem Cells	Mouse	Yang, Y., Min, J-Y, Rana, J., Ke, Q., Cai, J., Chen, Y., Morgan, J.P., and Xiao, Y-F (2002) VEGF enhances functional improvement of postinfarcted hearts by transplantation of ESC-differentiated cells <i>J. Appl Physiol.</i> 93 : 1140 - 1151.
Endometrial Stromal Cells (Immortalized)	Endometrial Stromal Cells (Immortalized)	Ovine	Choi, Y., Johnson, G.A., Burghardt, R.C., Berghman, L.R., Joyce, M.M., Taylor, K.M., Stewart, M.D., Bazer, F.W. and Spencer, T.E. (2001) Interferon Regulatory Factor-Two Restricts Expression of Interferon-Stimulated Genes to the Endometrial Stroma and Glandular Epithelium of the Ovine Uterus. <i>Biol. Reprod.</i> 65 : 1038-1049.
FEK	Fetal Equine Kidney	Horse	Howe, L., Leroux, C., Issel, C.J. and Montelaro, R.C. (2002) Equine Infectious Anemia Virus Envelope Evolution In Vivo during Persistent Infection Progressively Increases Resistance to In Vitro Serum Antibody Neutralization as a Dominant Phenotype. <i>J. Virol.</i> 76 : 10588 - 10597.
FL-10	Fibroblast	Mouse	Datta, H.J. and Glazer, P.M. (2001) Intracellular generation of single-stranded DNA for chromosomal triplex formation and induced recombination <i>Nucleic Acids Res.</i> 29 : 5140 - 5147.
GH4C1	Anterior Pituitary	Rat	Li, D., Wang, F., and Samuels, H.H. (2001) Domain Structure of the NRIF3 Family of Coregulators Suggests Potential Dual Roles in Transcriptional Regulation <i>Mol. Cell. Biol.</i> , 21 : 8371 - 8384. Mahajan, M.A., Murray, A. and Samuels, H.H. (2002) NRC-Interacting Factor 1 Is a Novel Cotransducer That Interacts with and Regulates the Activity of the Nuclear Hormone Receptor Coactivator NRC. <i>Mol. Cell. Biol.</i> 22 : 6883 - 6894.



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H1299	Lung Carcinoma	Human	<p>Dai, R., Frejtag, W., He, B., Zhang, Y., and Mivechi, N.F., c-Jun NH2-terminal Kinase Targeting and Phosphorylation of Heat Shock Factor-1 Suppress Its Transcriptional Activity <i>J. Biol. Chem.</i> 200: 18210-18218.</p> <p>Zeng, X., Li, X., Miller, A., Yuan, Z., Yuan, W., Kwok, R.P.S., Goodman, R., and Lu, H. (2000) The N-Terminal Domain of p73 Interacts with the CH1 Domain of p300/CREB Binding Protein and Mediates Transcriptional Activation and Apoptosis. <i>Molec. & Cell Biol.</i> 20: 1299-1310</p>
H520 / H460	Lung Carcinoma	Human	<p>Tong, X., Xie, D., O'Kelly, J., Miller, C.W., Muller-Tidow, C., and Koeffler, H.P. (2001) Cyr61, a Member of CCN Family, Is a Tumor Suppressor in Non-Small Cell Lung Cancer <i>J. Biol. Chem.</i> 276: 47709 - 47714.</p>
H9c2	Myogenic Cells	Rat	<p>Gabai, V., Meriin, A.B., Yaglom, J., Wei, J., Mosser, D., Sherman, M. (2000) Suppression of Stress Kinase JNK is Involved in HSP72-Mediated Protection of Myogenic Cells From Transient Energy Deprivation: HSP72 Alleviates the Stress-Induced Inhibition of JNK Dephosphorylation. <i>J. Biol. Chem.</i> 275: 38088.</p> <p>Kabakov, A.E., Budagova, K.R., Latchman, D.S. and Kampinga, H.H. (2002) Stressful preconditioning and HSP70 overexpression attenuate proteotoxicity of cellular ATP depletion. <i>Am J Physiol Cell Physiol.</i> 283: 521 - 534.</p>
HC11	Mammary Epithelium	Mouse	<p>Tonko-Geymayer, S., Goupille, O., Tonko, M., Soratroi, C., Yoshimura, A., Streuli, C., Ziemiecki, A., Kofler, R., and Doppler, W. (2002) Regulation and Function of the Cytokine-Inducible SH-2 Domain Proteins, CIS and SOCS3, in Mammary Epithelial Cells <i>Mol. Endocrinol.</i> 16: 1680 - 1695.</p>
HEK 293 HEK 293T HEK EBNA	Embryonic Kidney	Human	<p>Babcock, G.J., Farzan, M., and Sodroski, J. (2003) Ligand-independent Dimerization of CXCR4, a Principal HIV-1 Coreceptor. <i>J. Biol. Chem.</i> 278: 3378 – 3385.</p> <p>Basmaciogullari, S., Babcock, G.J., Van Ryk, D., Wojtowicz, W. and Sodroski, J. (2002) Identification of Conserved and Variable Structures in the Human Immunodeficiency Virus gp120 Glycoprotein of Importance for CXCR4 Binding. <i>J. Virol.</i> 76: 10791 - 10800.</p> <p>Bell, D.C., Butcher, A.J., Berrow, N.S., Page, K.M., Brust, P.F., Nesterova, A., Stauderman, K.A., Seabrook, G.R., Nürnberg, B., and Dolphin, A.C. (2001) Biophysical Properties, Pharmacology, and Modulation of Human, Neuronal L-Type (α_{1D}, Ca_v 1.3) Voltage-Dependent Calcium Currents <i>J. Neurophysiol.</i> 85: 816-827.</p>



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Cell Line	Cell Type	Source	References
Hepa-1	Hepatoma	Mouse	Elbi, C., Misteli, T. and Hager, G. (2002) Recruitment of Dioxin Receptor to Active Transcription Sites. <i>Mol. Biol. Cell</i> 13 : 2001 - 2015.
HepG2	Hepatocellular Carcinoma	Human	Mooney, R.A., Senn, J., Cameron, S., Inamdar, N., Boivin, L.M., Shang, Y., and Furlanetto, R.W. (2001) Suppressors of cytokine signaling (SOCS)-1 and 6 associate with and inhibit the insulin receptor: A potential mechanism for cytokine mediated insulin resistance. <i>J. Biol. Chem</i> 276 :25889-93. Yamaji, R., Adamik, R., Takeda, K., Togawa, A., Pacheco-Rodriguez, G., Ferrans, V., Moss, J., Vaughan, M. (2000) Identification and localization of two brefeldin A-inhibited guanine nucleotide-exchange proteins for ADP-ribosylation factors in a macromolecular complex, <i>Proc. Natl. Acad. Sci. USA</i> 97 : 2567. Yao, X., Hu, J-F, Daniels, M., Shiran, H., Zhou, X., Yan, H., Lu, H., Zeng, Z. (2003) Qingxue Wang, Tao Li, and Andrew R. Hoffman A methylated oligonucleotide inhibits IGF2 expression and enhances survival in a model of hepatocellular carcinoma. <i>J. Clin. Invest.</i> 111 : 265 - 273.
HLE	Embryonic Lung Fibroblast	Human	Setsukinai, K., Urano, Y., Kakinuma, K., Majima, H.J. and Nagano, T. (2003) Development of Novel Fluorescence Probes That Can Reliably Detect Reactive Oxygen Species and Distinguish Specific Species. <i>J. Biol. Chem.</i> 278 : 3170 - 3175.
HT 1080	Fibrosarcoma	Human	Kaluz, S., Kaluzová, M., Chrastina, A., Olive, P., Pastoreková, S., Pastorek, J., Lerman, M. and Stanbridge, E. (2002) Lowered Oxygen Tension Induces Expression of the Hypoxia Marker MN/Carbonic Anhydrase IX in the Absence of Hypoxia-inducible Factor 1 Stabilization: A Role for Phosphatidylinositol 3'-Kinase. <i>Cancer Res.</i> 62 : 4469 - 4477.
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JJ012	Chondrosarcoma	Human	Gao, G, Westling, J., Thompson, V.P., Howell, T.D., Gottschall, P.E., and Sandy, J.D. (2002) Activation of the proteolytic activity of ADAMTS4 (aggrecanase-1) by C-terminal truncation. <i>J. Biol. Chem.</i> 277 : 11034.



Cell Line	Cell Type	Source	References
Jurkat	T-Cell Lymphoma	Human	<p>DeVries, M.E., Cao, H., Wang, J., Xu, L., Kelvin, A.A., Ran, L., Chau, L.A., Madrenas, J., Hegele, R.A., and Kelvin, D.J. (2003) Genomic organization and evolution of the CX3CR1/CCR8 chemokine receptor locus. <i>J. Biol. Chem.</i> 211422200.</p> <p>Joshi, P. and Prasad, V.R. (2002) Potent Inhibition of Human Immunodeficiency Virus Type 1. Replication by Template Analog Reverse Transcriptase Inhibitors Derived by SELEX (Systematic Evolution of Ligands by Exponential Enrichment) <i>J. Virol.</i> 76: 6545 - 6557.</p> <p>Joshi, P. and Prasad, V.R. (2002) Potent Inhibition of Human Immunodeficiency Virus Type 1. Replication by Template Analog Reverse Transcriptase Inhibitors Derived by SELEX (Systematic Evolution of Ligands by Exponential Enrichment) <i>J. Virol.</i> 76: 6545 - 6557.</p> <p>Liu, X., Schragar, J.A., Lange, G.D. and Marsh, J.W. (2001) HIV NEF-mediated cellular phenotypes are differentially expressed as a function of intracellular NEF concentrations. <i>J. Biol. Chem</i> 276: 32763-32770.</p>
K-562	Chronic Myelogenous Leukemia	Human	Bharadwaj, D., Stein, M-P, Volzer, M., Mold, C., and Du Clos, T.W. (1999) The Major Receptor for C-Reactive Protein on Leukocytes is Fcγ Receptor II. <i>J. Exp. Med.</i> 190 (4): 585-590.
KB	HeLa Contaminant	Human	Bharat H. Joshi, Koji Kawakami, Pamela Leland, and Raj K. Puri (2002) Heterogeneity in Interleukin-13 Receptor Expression and Subunit Structure in Squamous Cell Carcinoma of Head and Neck: Differential Sensitivity to Chimeric Fusion Proteins Comprised of Interleukin-13 and a Mutated Form of Pseudomonas Exotoxin. <i>Clin. Cancer Res.</i> 8 : 1948 - 1956.
L929	Fibrosarcoma	Mouse	Ono, K., Wang, X., and Han, J. (2001) Resistance to Tumor Necrosis Factor-Induced Cell Death Mediated by PMCA4 Deficiency. <i>Mol. Cell. Biol.</i> 21 : 8276 - 8288.
IdIA-7	Ovary	Chinese Hamster	<p>Gu, X., Kozarsky, K., and Krieger M. (2000) Scavenger Receptor Class B, Type I-mediated [3H] Cholesterol Efflux to High and Low Density Lipoproteins Is Dependent on Lipoprotein Binding to the Receptor <i>J. Biol. Chem.</i> 275: 29993-30001.</p> <p>Gu, X., Lawrence, R., and Krieger, M. (2000) Dissociation of the High Density Lipoprotein and Low Density Lipoprotein Binding Activities of Murine Scavenger Receptor Class B Type I (mSR-BI) Using Retrovirus Library-based Activity Dissection. <i>J. Biol. Chem.</i> 275: 9120-9130.</p> <p>Viñals, M., Xu, S., Vasile, E. and Krieger, M. (2003) Identification of the N-Linked Glycosylation Sites on the High Density Lipoprotein (HDL) Receptor SR-BI and Assessment of Their Effects on HDL Binding and Selective Lipid Uptake <i>J. Biol. Chem.</i> 278: 5325 - 5332.</p>



Cell Line	Cell Type	Source	References
LEC-1	Ovary	Chinese Hamster	Moloney, D., Panin, V., Johnston, S., Chen, J., Shao, L., Wilson, R., Wang, Y., Stanley, P., Irvine, K., Haltiwanger, R., Vogt, T. (2000) Fringe is a glycosyltransferase that modifies Notch. <i>Nature</i> 406 : 369-375. Shao, L., Moloney, D.J., and Haltiwanger, R. (2003) Fringe Modifies O-Fucose on Mouse Notch1 at Epidermal Growth Factor-like Repeats within the Ligand-binding Site and the Abruptex Region. <i>J. Biol. Chem.</i> 278 : 7775 - 7782.
LN12	Fibroblast	Mouse	Vasquez, K.M., Dagle, J.M., Weeks, D.L., and Glazer, P.M. (2001) Chromosome Targeting at Short Polypurine Sites by Cationic Triplex-forming Oligonucleotides. <i>J. Biol. Chem</i> 276 : 38536-38541. [Oligo transfection]
LN-2308	Glioblastoma	Human	Fulci, G., Ishii, N., Maurici, D., Gernert, K., Hainaut, P., Kaur, B., and Van Meir, E., (2002) Initiation of Human Astrocytoma by Clonal Evolution of Cells with Progressive Loss of p53 Functions in a Patient with a 283H TP53 Germ-line Mutation: Evidence for a Precursor Lesion. <i>Cancer Res.</i> 62 : 2897 - 2905.
LTK ⁻ (serum free)	Fibroblast	Mouse	Luo, Z., Macris, M., Faruqi, A.F., Glazer, P. (2000) High-frequency intrachromosomal gene conversion induced by triplex-forming oligonucleotides microinjected into mouse cells, <i>Proc. Natl. Acad. Sci. USA</i> 97 : 9003-9008. (Oligo Transfection)
M6-11	Fibroblast	Mouse	Riewald, M. and Ruf, W. (2001) Mechanistic coupling of protease signaling and initiation of coagulation by tissue factor. <i>Proc. Natl. Acad. Sci. USA</i> , 98 : 7742-7747.
McA RH7777	Hepatoma	Rat	Mooney, R.A., Senn, J., Cameron, S., Inamdar, N., Boivin, L.M., Shang, Y., and Furlanetto, R.W. (2001) Suppressors of cytokine signaling (SOCS)-1 and 6 associate with and inhibit the insulin receptor: A potential mechanism for cytokine mediated insulin resistance. <i>J. Biol. Chem.</i> 276 :25889-93.
MCF-7	Breast Adenocarcinoma	Human	Gibson, E.M., Henson, E.S., Onio, J., and Gibson, S.B. MEK kinase 1 (MEKK1) induces mitochondrial permeability transition leading to apoptosis independent of cytochrome c release <i>J. Biol. Chem</i> , 277 : 10573-10580. Ishii, H., Vecchione, A., Murakumo, Y., Baldassarre, G., Numata, S., Trapasso, F., Alder, H., Baffa, R., and Croce, C.M. (2001) FEZ1/LZTS1 gene at 8p22 suppresses cancer cell growth and regulates mitosis. <i>PNAS</i> 98 : 10374-10379. Sun, X., Lee, J., Navas, T., Baldwin, D.T., Stewart, T.A., and Dixit, V.M., (1999) RIP3, a Novel Apoptosis-inducing Kinase <i>J. Biol. Chem.</i> 274 : 16871-16875.



Cell Line	Cell Type	Source	References
MDA-MB-436	Breast Carcinoma	Human	Chen, X., Danes, C., Lowe, C., Herliczek, T.W., Keyomarsi, K. (2000) Activation of the Estrogen-Signaling Pathway by p21 ^{WAF1/CIP1} in Estrogen Receptor-Negative Breast Cancer Cells. <i>J. Natl. Cancer Inst.</i> 92 : 1403-1413.
MDCK	Kidney	Dog	<p>Coniglio, S.J., Jou, T-S, and Symons, M., (2001) Rac1 Protects Epithelial Cells Against Anoikis <i>J. Biol. Chem.</i> 276: 28113.</p> <p>Lamorte, L., Royal, I., Naujokas, M. and Park, M. (2002) Crk Adapter Proteins Promote an Epithelial-Mesenchymal-like Transition and Are Required for HGF-mediated Cell Spreading and Breakdown of Epithelial Adherens Junctions <i>Mol. Biol. Cell</i> 13: 1449 - 1461.</p> <p>Lamorte, L., Rodrigues, S., Naujokas, M. and Park, M. (2002) Crk Synergizes with Epidermal Growth Factor for Epithelial Invasion and Morphogenesis and Is Required for the Met Morphogenic Program <i>J. Biol. Chem</i> 277: 37904 - 37911.</p> <p>Royal, I., Lamarche-Vane, N., Lamorte, L., Kaibuchi, K., Park, M. (2000) Activation of Cdc42, Rac, PAK, and Rho-Kinase in Response to Hepatocyte Growth Factor Differentially Regulates Epithelial Cell Colony Spreading and Dissociation. <i>Molec Biol of the Cell</i> 11: 1709-1725.</p>
MEF	Embryonic Fibroblast	Mouse	<p>Gibson, E.M., Henson, E.S., Onio, J., and Gibson, S.B. MEK kinase 1 (MEKK1) induces mitochondrial permeability transition leading to apoptosis independent of cytochrome c release <i>J. Biol. Chem</i>, 277: 10573-10580.</p> <p>Velling, T., Risteli, J., Wennerberg, K., Mosher, D. and Johansson, S. (2002) Polymerization of type I and III collagens is dependent on fibronectin and enhanced by integrins 111 and 21 <i>J. Biol. Chem</i> 2002 206286200.</p>
MES-SA/Dx-5	Uterine Sarcoma	Human	Park, S., James, C.D. (2003) Lanthionine Synthetase Components C-like 2 Increases Cellular Sensitivity to Adriamycin by Decreasing the Expression of P-Glycoprotein through a Transcription-mediated Mechanism. <i>Cancer Res.</i> ; 63 : 723 - 727.
MG-63	Osteosarcoma	Human	Udagawa, T., Fernandez, A., Achilles, E-G, Folkman, J. and D'Amato, R.J. (2002) Persistence of microscopic human cancers in mice: alterations in the angiogenic balance accompanies loss of tumor dormancy. <i>FASEB J.</i> 16 : 1361 - 1370.
MN-1	Neuron	Mouse	McC Campbell, A., Taylor, J.P., Taye, A.A., Robitschek, J., Li, M., Walcott, J., Merry, D., Chai, Y., Paulson, H., Sobue, G., Fischbeck, K.H. (2000) CREB-binding Protein Sequestration by Expanded Polyglutamine. <i>Hum. Mol. Genet.</i> 9 : 2197-2202.



Cell Line	Cell Type	Source	References
N1E-115	Neuroblastoma	Mouse	Feng, Y-H., Sun, Y. and Douglas, J.G. (2002) G β γ -independent constitutive association of G α_s with SHP-1 and angiotensin II receptor AT $_2$ is essential in AT $_2$ -mediated ITIM-independent activation of SHP-1. <i>PNAS</i> 99 : 12049 - 12054.
NC-37	B-lymphoblast	Human	Liao, W., Tang, Y., Lin, S-F., Kung, H-J., and Giam, C-Z (2003) K-bZIP of Kaposi's Sarcoma-Associated Herpesvirus/Human Herpesvirus 8 (KSHV/HHV-8) Binds KSHV/HHV-8 Rta and Represses Rta-Mediated Transactivation. <i>J. Virol.</i> 77 : 3809 - 3815.
NCI-H23	Non Small Cell Lung Carcinoma	Human	Li, T., Vu, T.H., Lee, K-O, Yang, Y., Nguyen, C.V., Bui, H.Q., Zeng, Z-L, Nguyen, B.T., Hu, J-F, Murphy, S.K., Jirtle, R.L., and Hoffman, A.R. (2002) An Imprinted PEG1/MEST Antisense Expressed Predominantly in Human Testis and in Mature Spermatozoa. <i>J. Biol. Chem</i> 277 : 13518 - 13527.
NCI-H460 / NCI-H520	Lung Carcinoma	Human	Tong, X., Xie, D., O'Kelly, J., Miller, C.W., Muller-Tidow, C., and Koeffler, P.H. (2001) Cyr61, a member of CCN family, is a tumor suppressor in non-small cell lung cancer. <i>J. Biol. Chem</i> 276 : 47709.
NIH-3T3	Fibroblast	Mouse	Gombart, A.F., Hofmann, W.K., Kawano, S., Takeuchi, S., Krug, U., Kwok, S.H., Larsen, R.J., Asou, H., Miller, C.W., Hoelzer, D., and Koeffler H.P. (2002) Mutations in the gene encoding the transcription factor CCAAT/enhancer binding protein in myelodysplastic syndromes and acute myeloid leukemias. <i>Blood</i> , 99 : 1332 - 1340. Geiszt, M., Kopp, J.B., Varnai, P., Leto, T. (2000) Identification of Renox, an NAD(P)H oxidase in kidney. <i>Proc. Natl. Acad. Sci USA</i> 97 : 8010. Kawabata, H., Germain, R.S., Ikezoe, T., Tong, X., Green, E.M., Gombart, A.F., and Koeffler, H.P. (2001) Regulation of expression of murine transferrin receptor 2. <i>Blood</i> 98 : 1949-1954. Nakagawa, K. and Yokosawa, H. (2000) Degradation of Transcription Factor IRF-1 by the Ubiquitin-Proteasome Pathway. <i>Eur J. Biochem</i> 267 : 1680-1686. Olah, Z., Karai, L., and Ladarola, M.J., (2001) Anandamide activates vanilloid receptor 1 at acidic pH in DRG neurons and cells ectopically expressing VR1. <i>J. Biol. Chem.</i> 276 :31163-70. Park, H-S, Lee, J-S, Huh, S-H, Seo, J-S, Choi, E-J (2001) Hsp72 Functions as a Natural Inhibitory Protein of c-Jun N-terminal Kinase. <i>EMBO</i> 20 : 446-456 (Anti-sense oligo transfection). Suzuki, T., Tsuzuku, J.K, Ajima, R., Nakamura, T., Yoshida, Y. and Yamamoto, T. (2002) Phosphorylation of three regulatory serines of Tob by Erk1 and Erk2 is required for Ras-mediated cell proliferation and transformation. <i>Genes & Dev.</i> 16 : 1356 - 1370.



Cell Line	Cell Type	Source	References
NIH-3T3	Fibroblast	Mouse	<p>Ubeda, M. and Habener, J.F. (2000) CHOP Gene Expression in Response to Endoplasmic-Reticular Stress Requires NFY Interaction with Different Domains of a Conserved DNA-binding Element. <i>Nucl. Acids Res.</i> 28: 4987-4997.</p> <p>Xiao, G-H, Beeser, A., Chernoff, J., and Testa, J.R., (2002) p21-activated Kinase Links Rac/Cdc42 Signaling to Merlin. <i>J. Biol. Chem.</i> 277: 883 - 886.</p>
NIP	Pancreatic Nestin Positive Islet-Derived Progenitor Cells	Human	Abraham, E., Leech, C., Lin, J., Zulewski, H., and Habener, J. (2002) Insulinotropic Hormone Glucagon-Like Peptide-1 Differentiation of Human Pancreatic Islet-Derived Progenitor Cells into Insulin-Producing Cells <i>Endocrinology</i> 143 : 3152 – 3161.
NTera2/D1	Pluripotent Embryonal Carcinoma	Human	Tchenio, T., Casella, J-F, and Heidmann, T. (2000) Members of the SRY Family Regulate the Human LINE Retrotransposons. <i>Nucl. Acids Res.</i> 28 : 411-415.
OVCAR5	Ovarian Carcinoma	Human	Pan, Z-Z, Bruening, W., Giasson, B.I., Lee, V.M.Y. and Godwin, A.K. (2002) Synuclein promotes cancer cell survival and inhibits stress- and chemotherapeutic drug-induced apoptosis by modulating MAPK pathways. <i>J. Biol. Chem</i> 201650200.
PBMC	Peripheral Blood Mononuclear Cells	Human	Schleef RR, Olman MA, Miles LA, Chuang JL. (2001) Modulating the fibrinolytic system of peripheral blood mononuclear cells with adenovirus. <i>Human Gene Therapy</i> 12 : 439-445.
PC-3	Prostate Adenocarcinoma	Human	<p>Gustin, J.A., Maehama, T., Dixon, J.E., and Donner, D.B., (2001) The PTEN tumor suppressor protein inhibits TNF induced NF-B activity. <i>J. Biol. Chem</i> 276: 27740-27744.</p> <p>Mabjeesh, N., Post, D., Willard, M., Kaur, B., Van Meir, E.G., Simons, J.W. and Zhong, H. (2002) Geldanamycin Induces Degradation of Hypoxia-inducible Factor 1 Protein via the Proteosome Pathway in Prostate Cancer Cells. <i>Cancer Res.</i> 62: 2478 - 2482.</p>



Cell Line	Cell Type	Source	References
PC-12	Pheochromocytoma	Rat	<p>Caumont, A-S., Vitale, N., Gensse, M., Galas, M-C., Casanova, J., Bader, M-F. (2000) Identification of a Plasma Membrane-associated Guanine Nucleotide Exchange Factor for ARF6 in Chromaffin Cells. <i>J. Biol. Chem.</i> 275: 15637-15644.</p> <p>Taupenot, L., Harper, K.L., Mahapatra, N.R., Parmer, R.J., Mahata, S.K. and O'Connor, D.T. (2002) Identification of a novel sorting determinant for the regulated pathway in the secretory protein chromogranin A. <i>J. Cell Sci.</i> 115: 4827 - 4841.</p> <p>Vitale, N., Caumont, A-S, Chasserot-Golaz, S., Du., G., Wu, S., Sciorra, V.A., Morris, A.J. (2001) Phospholipase D1: A Key Factor for the Exocytotic Machinery in Neuroendocrine Cells. <i>EMBO</i> 20: 2424-2434.</p> <p>Wong, E.S.M., Fong, C.W., Lim, J., Yusoff, P., Low, B.C., Langdon, W.Y. and Guy, G.R. (2002) Sprouty2 attenuates epidermal growth factor receptor ubiquitylation and endocytosis, and consequently enhances Ras/ERK signaling. <i>EMBO J.</i> 21: 4796 - 4808.</p>
Primary	Anterior Pituitary	Rat	<p>Wu, M., Kelley, M.R., Hansen, W.K., Martin II, W.J. (2001) Reduction of BCNU Toxicity to Lung Cells by High-Level Expression of O⁶-methylguanine-DNA methyltransferase. <i>AJP Lung Cellr Molec Phys</i> 280: L755-L761.</p>
Primary	Aortic Endothelium	Rat	<p>Humar, R., Kiefer, F., Berns, H., Resink, T., and Battegay, E., (2002) Hypoxia enhances vascular cell proliferation and angiogenesis <i>in vitro</i> via rapamycin (mTOR) -dependent signaling. <i>FASEB J.</i> 16: 771 - 780.</p>
Primary	Astrocytes	Rat	<p>Zelenaia, O., Schlag, B.D., Gochenauer, G.E., Ganel, R., Song, W., Beesley, J.S., Grinspan, J.B., Rothstein, J.D., Robinson, M.B. (2000) Epidermal Growth Factor Receptor Agonists Increase Expression of Glutamate Transporter GLT-1 in Astrocytes through Pathways Dependent on Phosphatidylinositol 3-Kinase and Transcription Factor NF-κB. <i>Molec Pharm</i> 57: 667-678.</p>
Primary	Early Differentiated Cells from Embryonic Stem Cells	Mouse	<p>Yang, Y., Min, J-Y, Rana, J.S, Ke, O., Cai, J., Chen, Y., Morgan, J.P., and Xiao, Y-F (2002) VEGF enhances functional improvement of postinfarcted hearts by transplantation of ESC-differentiated cells <i>J. Appl. Physiol.</i> 93: 1140 - 1151.</p>
Primary	Embryonic Fibroblast	Chicken	<p>Adler, R. and Belecky-Adams, T. (2002) The role of bone morphogenetic proteins in the differentiation of the ventral optic cup. <i>Development</i> 129: 3161 - 3171.</p>
Primary	Embryonic Retinal Neuron	Chicken	<p>Toy J., Bradford RL., Adler R., Lipid-mediated gene transfection into chick embryo retinal cells in ovo and in vitro. (2000) <i>J Neurosci Methods</i>; 104:1-8.</p>



Cell Line	Cell Type	Source	References
Primary	Fetal Hepatocytes	Rat	Awad, M., Enslin, H., Boylan, J., Davis, R., Gruppuso, P., (2000) Growth Regulation via p38 Mitogen-Activated Protein Kinase in Developing Liver. <i>J. Biol. Chem</i> 275 :38716-21
Primary	Fetal Kidney	Equine	Li, F., Chen, C., Puffer, B.A., and Montelaro, R.C. (2002) Functional Replacement and Positional Dependence of Homologous and Heterologous L Domains in Equine Infectious Anemia Virus Replication <i>J. Virol.</i> , 76 : 1569.
Primary	Fetal Osteoblasts	Rat	Billiard, J., Umayahara, Y., Wiren, K., Centrella, M., McCarthy, T.L., and Rotwein, P., (2001) Regulated Nuclear-Cytoplasmic Localization of CCAAT/ Enhancer-binding Protein in Osteoblasts. <i>J. Biol. Chem.</i> 276 : 15354-15361.
Primary	Hippocampal Neuron	Rat	Job, C. and Eberwine, J. (2001) From the Cover: Identification of sites for exponential translation in living dendrites. <i>PNAS</i> 98 : 13037-13042. (GP) mRNA
Primary	Neuronal Dendrites	Rat	Kacharmina, J.E., Job, C., Crino, P., Eberwine, J. (2000) Stimulation of glutamate receptor protein synthesis and membrane insertion within isolated neuronal dendrites. <i>Proc. Natl. Acad. Sci. USA</i> 97 : 11545-11550. (RNA Transfection) Meskini, R.E., Galano, G.J., Marx, R., Mains, R.E., and Betty A. Eipper (2001) Targeting of Membrane Proteins to the Regulated Secretory Pathway in Anterior Pituitary Endocrine Cells, <i>J. Biol. Chem.</i> 276 : 3384-3393.
Primary	Prostate Post-Natal Ductal Epithelium	Rat	Wang, B., Shou, J., Ross, S., Koeppen, H., de Sauvage, F.J., and Gao, W-Q (2003) Inhibition of epithelial ductal branching in the prostate by sonic hedgehog is indirectly mediated by stromal cells. <i>J. Biol. Chem.</i> 300968200.
Primary	Pulmonary Artery Endothelium	Human	Wu, M., Kelley, M.R., Hansen, W.K., Martin II, W.J. (2001) Reduction of BCNU Toxicity to Lung Cells by High-Level Expression of O ⁶ -methylguanine-DNA methyltransferase. <i>AJP Lung Cellr Molec Phys</i> 280 : L755-L761.
Primary	Retinal Pigment Epithelium	Rabbit	Mandava, N., Blackburn, P., Paul, D.B., Wilson, M.W., Read, S.B., Alspaugh, E., Tritz, R., Barber, J.R., Robbins, J.M. and Kruse, C.A. (2002) Ribozyme to Proliferating Cell Nuclear Antigen to Treat Proliferative Vitreoretinopathy. <i>Invest. Ophthalmol. Vis. Sci.</i> 43 : 3338 - 3348.
Primary	Vascular Smooth Muscle	Porcine	Sotoudeh, M., Li, Y-S, Yajima, N., Chang, C-C, Tsou, T-C, Wang, Y., Usami, S., Ratcliffe, A., Chien, S. and John, Y.-J. (2002) Shyy Induction of apoptosis in vascular smooth muscle cells by mechanical stretch <i>Am J Physiol Heart Circ Physiol</i> , 282 : 1709 - 1716.



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PT 67	Fibroblast	Mouse	Ma, Z., Ramanadham, S., Wohltmann, M., Bohrer, A., Hsu, F-F, and Turk, J., (2001) Studies of Insulin Secretory Responses and of Arachidonic Acid Incorporation into Phospholipids of Stably Transfected Insulinoma Cells That Overexpress Group VIA Phospholipase A2 (iPLA2) Indicate a Signaling Rather Than a Housekeeping Role for iPLA2, <i>J. Biol. Chem.</i> 276 : 13198-13208.
Rat-1	Fibroblast	Rat	Farhang-Fallah, J., Yin, X., Trentin, G., Cheng, A., Rozakis-Adcock, M., (2000) Cloning and Characterization of PHIP, a novel IRS-1 PH domain binding protein, <i>J. Biol Chem.</i> 275 : 40492. Li, D-P, Periyasamy, S., Jones, T.J., and Sanchez, E.R. (2000) Heat and Chemical Shock Potentiation of Glucocorticoid Receptor Transactivation Requires Heat Shock Factor (HSF) Activity. <i>J. Biol. Chem.</i> 275 : 26058.
RD	Embryonal Rhabdomyosarcoma	Human	Tchenio, T., Casella, J-F, and Heidmann, T. (2000) Members of the SRY Family Regulate the Human LINE Retrotransposons. <i>Nucl. Acids Res.</i> 28 : 411-415.
S2	Embryonic	Drosophila	McDonald, M.J., Rosbash, M., Emery, P. (2001) Wild-Type Circadian Rhythmicity is Dependent on Closely Spaced E Boxes in the <i>Drosophila timeless</i> Promoter. <i>Mol & Cell Biol</i> 21 : 1207-1217.
Saos-2	Osteosarcoma	Human	Udagawa, T., Fernandez, A., Achilles, E-G, Folkman, J. and D'Amato, R.J. (2002) Persistence of microscopic human cancers in mice: alterations in the angiogenic balance accompanies loss of tumor dormancy. <i>FASEB J.</i> 16 : 1361 - 1370.
ST-2	Gastric Sarcoma	Human	Udagawa, T., Fernandez, A., Achilles, E-G, Folkman, J. and D'Amato, R.J. (2002) Persistence of microscopic human cancers in mice: alterations in the angiogenic balance accompanies loss of tumor dormancy. <i>FASEB J.</i> 16 : 1361 - 1370.
SCC	Squamous Cell Carcinoma	Human	Bernardi, R.J., Trump, D.L., Yu, W-D., McGuire, T.F., Hershberger, P.A., and Johnson, C.S. (2001) Combination of 1,25-Dihydroxyvitamin D3 with Dexamethasone Enhances Cell Cycle Arrest and Apoptosis: Role of Nuclear Receptor Cross-Talk and Erk/Akt Signaling <i>Clin. Cancer Res.</i> 7 : 4164 - 4173.
SH-SY5Y	Neuroblastoma	Human	Neumar, R.W., Xu, Y.A., Gada, H., Guttmann, R.P., and Siman, R. (2003) Crosstalk between calpain and caspase proteolytic systems during neuronal apoptosis. <i>J. Biol. Chem.</i> : 212255200.
SiHa	Cervical Squamous Carcinoma	Human	Arany, I., Whitehead, W.E., Grattendick, K.J., Ember, I.A., and Tyring, S.K. (2002) Suppression of Growth by All-trans Retinoic Acid Requires Prolonged Induction of Interferon Regulatory Factor 1 in Cervical Squamous Carcinoma (SiHa) Cells. <i>Clin. Diagn. Lab. Immunol.</i> 9 : 1102 - 1106.



Cell Line	Cell Type	Source	References
SK-OV-3	Ovarian Carcinoma	Human	Scheffold, C., Kornacker, M., Scheffold, Y.C., Contag, C.H., and Negrin, R.S. (2002) Visualization of Effective Tumor Targeting by CD8+ Natural Killer T Cells Redirected with Bispecific Antibody F(ab') ₂ HER2xCD3. <i>Cancer Res.</i> 62 : 5785 - 5791.
Src++	Embryonic Fibroblast	Mouse	Kato, M., Takeda, K., Kawamoto, Y., Iwashita, T., Akhand, A.A., Senga, T., Yamamoto, M., Sobue, G., Hamaguchi, M., Takahashi, M. and Nakashima, I. (2002) Repair by Src Kinase of Function-impaired RET with Multiple Endocrine Neoplasia Type 2A Mutation with Substitutions of Tyrosines in the COOH-Terminal Kinase Domain for Phenylalanine <i>Cancer Res.</i> 62 : 2414 - 2422.
SU.86.86	Pancreatic Cancer	Human	Kawakami, K., Kawakami, M., Leland, P., and Puri, R.K., (2002) Internalization Property of Interleukin-4 Receptor Chain Increases Cytotoxic Effect of Interleukin-4 Receptor-targeted Cytotoxin in Cancer Cells. <i>Clin. Cancer Res.</i> 8 : 258 - 266.
SW13	Adrenal Carcinoma	Human	Perez-Olle, R., Leung, C.L. and Liem, R.K.H. (2002) Effects of Charcot-Marie-Tooth-linked mutations of the neurofilament light subunit on intermediate filament formation. <i>J. Cell Sci.</i> 115 : 4937 - 4946.
SYF	Embryonic Fibroblast	Mouse	Kato, M., Takeda, K., Kawamoto, Y., Iwashita, T., Akhand, A.A., Senga, T., Yamamoto, M., Sobue, G., Hamaguchi, M., Takahashi, M. and Nakashima, I. (2002) Repair by Src Kinase of Function-impaired RET with Multiple Endocrine Neoplasia Type 2A Mutation with Substitutions of Tyrosines in the COOH-Terminal Kinase Domain for Phenylalanine <i>Cancer Res.</i> 62 : 2414 - 2422.
T ₈₄	Colonic Epithelium	Human	Chow, J.Y.C., Uribe, J., Barrett, K. (2000) A Role for Protein Kinase C ϵ in the Inhibitory Effect of Epidermal Growth Factor on Calcium-stimulated Chloride Secretion in Human Colonic Epithelial Cells- <i>J. Biol. Chem.</i> 275 : 21169-21176. (Oligo Transfection) Lawrence, D., Comerford, K. and Colgan, S. (2002) Role of VASP in reestablishment of epithelial tight junction assembly after Ca ²⁺ switch. <i>Am J Physiol Cell Physiol</i> 282 : 1235 - 1245.
T98G	Glioblastoma	Human	Kawakami, K., Taguchi, J., Murata, T., Puri, R. (2001) The interleukin-13 receptor α 2 chain: an essential component for binding and internalization but not for interleukin-13-induced signal transduction through the STAT6 pathway <i>Blood</i> 97 : 2673-2679.
THP-1	Monocyte	Human	Bharadwaj, D., Stein, M-P, Volzer, M., Mold, C., and Du Clos, T.W. (1999) The Major Receptor for C-Reactive Protein on Leukocytes is Fc γ Receptor II. <i>J. Exp. Med.</i> 190 : 585-590.
TsA201	Embryonic Kidney	Human	Hockerman, G.H., Dimac, N., Scheuer, T., Catterall, W.A. (2000) Molecular Determinants of Diltiazem Block in Domains IIIS6 and IVS6 of L-type Ca ²⁺ Channels. <i>Molec Pharm</i> 58 : 1264-1270.



Cell Line	Cell Type	Source	References
U937	Histiocytic Lymphoma	Human	Bharadwaj, D., Stein, M-P, Volzer, M., Mold, C., and Du Clos, T.W. (1999) The Major Receptor for C- Reactive Protein on Leukocytes is Fcγ Receptor II. <i>J. Exp. Med.</i> 190 : 585-590. Pongoski, J., Asai, K. and Cochrane A. (2002) Positive and Negative Modulation of Human Immunodeficiency Virus Type 1 Rev Function by cis and trans Regulators of Viral RNA Splicing <i>J. Virol.</i> 76 : 5108 – 5120.
V-C8	Lung Fibroblast	Chinese Hamster	Kraakman-van der Zwet, M., Overkamp, W.J.I., van Lange, R.E.E., Essers, J., van Duijn-Goedhart, A., Wiggers, I., Swaminathan, S., van Buul, P.P.W., Errami, A., Tan, R.T. L., Jaspers, N.G.J., Sharan, S.K., Kanaar, R., and Zdzienicka, M.Z. (2002) Brca2 (XRCC11) Deficiency Results in Radioresistant DNA Synthesis and a Higher Frequency of Spontaneous Deletions <i>Mol. Cell. Biol.</i> 22 : 669 - 679.
VG-1	Primary Effusion Lymphoma	Human	Aoki, Y., Feldman, G.M. and Tosato, G. (2003) Inhibition of STAT3 signaling induces apoptosis and decreases survivin expression in primary effusion lymphoma. <i>Blood</i> 101 : 1535 - 1542.
Weri-RB1	Retinoblastoma	Human	Arranz, V., Dreuillet, C., Crisanti, P., Tillit, J., Kress, M., and Ernoult-Lange, M., (2001) The Zinc Finger Transcription Factor, MOK2, Negatively Modulates Expression of the Interphotoreceptor Retinoid-binding Protein Gene, IRBP, <i>J. Biol. Chem.</i> 276 : 11963-11969.

