



Selected Publications Citing Surveyor® Nuclease for Mutation Detection and Analysis

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Oncology

DHPLC/SURVEYOR Nuclease: A Sensitive, Rapid and Affordable Method to Analyze BRCA1 and BRCA2 Mutations in Breast Cancer Families.

Pilato B, De Summa S, Danza K, Papadimitriou S, Zaccagna P, Paradiso A, Tommasi S.

Mol Biotechnol. Nov 10 (2011). [Epub ahead of print]

Phosphatidylinositol-3-kinase alpha catalytic subunit mutation and response to neoadjuvant endocrine therapy for estrogen receptor positive breast cancer.

Ellis MJ, Lin L, Crowder R, Tao Y, Hoog J, Snider J, Davies S, DeSchryver K, Evans DB, Steinseifer J, Bandaru R, Liu W, Gardner H, Semiglazov V, Watson M, Hunt K, Olson J, Baselga J.

Breast Cancer Res. Treat. 119, 379-390 (2010).

Detection of androgen receptor mutations in circulating tumor cells in castration-resistant prostate cancer.

Jiang Y, Palma JF, Agus DB, Wang Y, Gross ME.

Clin. Chem. 58, 1492-1495 (2010).

Associations between polycyclic aromatic hydrocarbon-related exposures and p53 mutations in breast tumors.

Mordukhovich I, Rossner P Jr, Terry MB, Santella R, Zhang YJ, Hibshoosh H, Memeo L, Mansukhani M, Long CM, Garbowski G, Agrawal M, Gaudet MM, Steck SE, Sagiv SK, Eng SM, Teitelbaum SL, Neugut AI, Conway-Dorsey K, Gammon MD.

Environ Health Perspect. 118, 511-8 (2010).

Noninvasive detection of EGFR T790M in gefitinib or erlotinib resistant non-small cell lung cancer.

Kuang Y, Rogers A, Yeap BY, Wang L, Makrigiorgos M, Vetrand K, Thiede S, Distel RJ, Jänne PA.

Clin Cancer Res. 15, 2630-6 (2009).

Strain-specific spontaneous and NNK-mediated tumorigenesis in Pten^{+/-} mice.

Hollander MC, Balogh AR, Liwanag J, Han W, Linnoila RI, Anver MR, Dennis PA.

Neoplasia 10, 866-872 (2008).

Single nucleotide polymorphisms, apoptosis, and the development of severe late adverse effects after radiotherapy.

Azria D, Ozsahin M, Kramar A, Peters S, Atencio DP, Crompton NE, Mornex F, Pèlerin A, Dubois JB, Mirimanoff RO, Rosenstein BS.

Clin. Cancer Res. 14, 6284-6288 (2008).

Improved identification of von Hippel-Lindau gene alterations in clear cell renal tumors.

Nickerson ML, Jaeger E, Shi Y, Durocher JA, Mahurkar S, Zaridze D, Matveev V, Janout V, Kollarova H, Bencko V, Navratilova M, Szeszenia-Dabrowska N, Mates D, Mukeria A, Holcatova I, Schmidt LS, Toro JR, Karami S, Hung R, Gerard GF, Linehan WM, Merino M, Zbar B, Boffetta P, Brennan P, Rothman N, Chow WH, Waldman FM, Moore LE.

Clin Cancer Res. 14, 4726-34 (2008).

Mutations in the LKB1 tumour suppressor are frequently detected in tumours from Caucasian but not Asian lung cancer patients.

Koivunen JP, Kim J, Lee J, Rogers AM, Park JO, Zhao X, Naoki K, Okamoto I, Nakagawa K, Yeap BY, Meyerson M, Wong KK, Richards WG, Sugarbaker DJ, Johnson BE, Jänne PA.

Br. J. Cancer. 99, 245-52 (2008).

TP53 mutations and survival in squamous-cell carcinoma of the head and neck.

Poeta ML, Manola J, Goldwasser MA, Forastiere A, Benoit N, Califano JA, Ridge JA, Goodwin J, Kenady D, Saunders J, Westra W, Sidransky D, Koch WM.

N. Engl. J. Med. 357, 2552-61 (2007).

Surveyor nuclease-based detection of p53 gene mutations in haematological malignancy.

Mitani N, Niwa Y, Okamoto Y.

Ann. Clin. Biochem. 44, 557-9 (2007).

KIT-negative undifferentiated endometrial sarcoma with the amplified epidermal growth factor receptor gene showing a temporary response to Imatinib mesylate.

Mitsuhashi T, Nakayama M, Sakurai S, Fujimura M, Shimizu Y, Ban S, Ogawa F, Hirose T, Ishihara O, Shimizu M.

Ann. Diagn. Pathol. 11, 49-54 (2007).

Allelic dilution obscures detection of a biologically significant resistance mutation in EGFR -amplified lung cancer.

Engelman JA, Mukohara T, Zejnullahu K, Lifshits E, Borrás AM, Gale CM, Naumov GN, Yeap BY, Jarrell E, Sun J, Tracy S, Zhao X, Heymach JV, Johnson BE, Cantley LC, Jänne PA.

J. Clin. Invest. 116, 2695-2706 (2006).

Erlotinib for frontline treatment of advanced non-small cell lung cancer: a phase II study.

Giaccone G, Gallegos Ruiz M, Le Chevalier T, Thatcher N, Smit E, Rodriguez J, Jänne P, Oulid-Aissa D, Soria J.

Clin. Cancer Res. 12, 6049-6055 (2006).

Genetic predictors of adverse radiotherapy effects: the Gene-PARE project.

Ho A, Atencio D, Peters S, Stock R, Formenti S, Cesaretti J, Green S, Haffty B, Drumea K, Leitzin L, Kuten A, Azria D, Ozsahin M, Overgaard J, Andreassen C, Trop C, Park J, Rosenstein B.

Int. J. Radiat. Oncol. Biol. Phys. 65, 646-655 (2006).

Response and resistance in a non-small-cell lung cancer patient with an epidermal growth factor receptor mutation and leptomeningeal metastases treated with high-dose gefitinib.

Jackman D, Holmes A, Lindeman N, Wen P, Kesari S, Borrás A, Bailey C, de Jong F, Jänne P, Johnson B.

J. Clin. Oncol. 24, 4517-4520 (2006).

Oncology continued

Exon 19 deletion mutations of epidermal growth factor receptor are associated with prolonged survival in non- small cell lung cancer patients treated with Gefitinib or Erlotinib.

Jackman D, Yeap B, Sequist L, Lindeman N, Holmes A, Joshi V, Bell D, Huberman M, Halmos B, Rabin M, Haber D, Lynch T, Meyerson M, Johnson B, Jänne P.
Clin. Cancer Res. 12, 3908-3914 (2006).

The JAK2 V617F mutation occurs in hematopoietic stem cells in polycythemia vera and predisposes toward erythroid differentiation.

Jamieson C, Gotlib J, Durocher J, Chao M, Mariappan M, Lay M, Jones C, Zehnder J, Lilleberg S, Weissman I.
Proc. Natl. Acad. Sci. 103, 6224-6229 (2006).

A rapid and sensitive enzymatic method for epidermal growth factor receptor mutation screening.

Jänne P, Borrás A, Kuang Y, Rogers A, Joshi V, Liyanage H, Lindeman N, Lee J, Halmos B, Maher E, Distel R, Meyerson M, Johnson B.
Clin. Cancer Res. 12, 751-758 (2006).

Effect of epidermal growth factor receptor tyrosine kinase domain mutations on the outcome of patients with non- small cell lung cancer treated with epidermal growth factor receptor tyrosine kinase inhibitors.

Jänne P, Johnson B.
Clin. Cancer Res. 12, 4416s-4420s (2006).

Immunohistochemical evaluation of KIT expression in sarcomas of the gynecologic region.

Nakayama M, Mitsunashi T, Shimizu Y, Ban S, Ogawa F, Ishihara O, Shimizu M.
Int. J. Gynecol. Pathol. 25, 70-76 (2006).

Mutation analysis of hCDC4 in AML cells identifies a new intronic polymorphism.

Nowak D, Mossner M, Baldus C, Hopfer O, Hofmann W.
Int. J. Med. Sci. 3, 148-151 (2006).

A sensitive high-throughput method to detect activating mutations of Jak2 in peripheral-blood samples.

Sattler M, Walz C, Crowley B, Lengfelder E, Jänne P, Rogers A, Kuang Y, Distel R, Reiter A, Griffin J.
Blood 107, 1237-1238 (2006).

Activity of the tyrosine kinase inhibitor PKC412 in a patient with mast cell leukemia with the D816V KIT mutation.

Gotlib J, Berube C, Growney J, Chen C, George T, Williams C, Kajiguchi T, Ruan J, Lilleberg S, Durocher J, Lichy J, Wang Y, Cohen P, Arber D, Heinrich M, Neckers L, Galli S, Gilliland D, Coutre S.
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Germline Genetic Screening

Mutation analysis of 18 nephronophthisis associated ciliopathy disease genes using a DNA pooling and next generation sequencing strategy.

Otto E, Ramaswami G, Janssen S, Chaki M, Allen S, Zhou W, Airik R, Hurd T, Ghosh A, Wolf M, Hoppe B, Neuhaus T, Bockenhauer D, Milford D, Soliman N, Antignac C, Saunier S, Johnson C, Hildebrandt F; GPN Study Group.
J Med Genet. 48, 105-116 (2011).

A molecular analysis of mutations at the complex dumpy locus in *Drosophila melanogaster*.

Carmon A, Guertin M, Grushko O, Marshall B, MacIntyre R.
PLoS ONE 5, e12319 (2010).

Meganucleases can restore the reading frame of a mutated dystrophin.

Chapdelaine P, Pichavant C, Rousseau J, Pâques F, Tremblay J.
Gene Ther. 17, 846-58 (2010).

Screening for mutations in kidney-related genes using SURVEYOR nuclease for cleavage at heteroduplex mismatches.

Voskarides K, Deltas C.
J. Mol. Diagn. 11, 311-318 (2009).

Rapid screening for nuclear genes mutations in isolated respiratory chain complex I defects.

Pagniez-Mammeri H, Lombes A, Brivet M, Ogier-de Baulny H, Landrieu P, Legrand A, Slama A.
Mol. Genet. Metab. 96, 196-200 (2009).

Novel method for genomic analysis of PKD1 and PKD2 mutations in autosomal dominant polycystic kidney disease.

Tan YC, Blumenfeld JD, Anghel R, Donahue S, Belenkaya R, Balina M, Parker T, Levine D, Leonard DG, Rennert H.
Hum. Mutat. 30 264-273 (2009).

Comparison of the mismatch-specific endonuclease method and denaturing high-performance liquid chromatography for the identification of HBB gene mutations.

Hung C, Su Y, Lin C, Chang Y, Chang C, Cheng W, Chen C, Lee C, Lin W.
BMC Biotechnol. 8, 62-70 (2008).

NPHS2 screening with SURVEYOR in Hellenic children with steroid-resistant nephrotic syndrome.

Voskarides K, Makariou C, Papagregoriou G, Stergiou N, Printza N, Alexopoulos E, Elia A, Papachristou F, Pierides A, Georgaki E, Deltas C.
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Genetic regulation of beta-ureidopropionase and its possible implication in altered uracil catabolism.

Thomas, H, Ezzeldin H, Guarcello V, Mattison L, Fridley B and Diasio R.
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Screening human genes for small alterations performing an enzymatic cleavage mismatched analysis (ECMA) protocol.

Vogiatzakis N, Kekou K, Sophocleous C, Kitsiou S, Mavrou A, Bakoula C, Kanavakis E.
Mol. Biotechnol. 37 12-9 (2007).

Genetic regulation of dihydropyrimidinase and its possible implication in altered uracil catabolism.

Thomas H, Ezzeldin H, Guarcello V, Mattison L, Fridley B, Diasio R.
Pharmacogenet Genomics. Nov;17(11):973-87 (2007).

Development of a rapid, reliable genetic test for Pseudoxanthoma Elasticum.

Shi Y, Terry S, Terry P, Bercovitch L, Gerard G.
J. Mol. Diagn. 9, 105-112 (2007).

A new detection method for ATRX gene mutations using a mismatch-specific endonuclease.

Wada T, Fukushima Y, Saitoh S.
Am. J. Med. Genet. A 140, 1519-1523 (2006).

Mitochondrial DNA Analysis

The link between mitochondrial DNA hypervariable segment I heteroplasmy and ageing among genetically unrelated Latvians.

Pliss L, Brakmanis A, Ranka R, Elferts D, Krumina A, Baumanis V.
Exp Gerontol. 46, 560-8 (2011).

Mitochondrial DNA damage and repair in RPE associated with aging and age-related macular degeneration.

Lin H, Xu H, Liang F, Liang H, Gupta P, Havey A, Boulton M, Godley B.
Invest. Ophthalmol. Vis. Sci. 52 3521-3529 (2011).

Surveyor nuclease detection of mutations and polymorphisms of mtDNA in children.

Pilch J, Asman M, Jamroz E, Kajor M, Kotrys-Puchalska E, Goss M, Krzak M, Witecka J, Gmiński J, Sieroń AL.
Pediatr. Neurol. 43, 325-330 (2010).

Strategy in diagnosis of mitochondrial diseases.

Lebre A.
Pathol. Biol (Paris) 58, 353-356 (2009).

Parkinson's disease brain mitochondria have impaired respirasome assembly, age-related increases in distribution of oxidative damage to mtDNA and no differences in heteroplasmic mtDNA mutation abundance.

Arthur C, Morton S, Dunham L, Keeney P, Bennett J Jr.
Mol. Med. Reports 4, 37-49 (2009).

Rapid identification of mitochondrial DNA (mtDNA) mutations in neuromuscular disorders by using surveyor strategy.

Bannwarth S, Procaccio V, Rouzier C, Fragaki K, Poole J, Chabrol B, Desnuelle C, Pouget J, Azulay J, Attarian S, Pellissier J, Gargus J, Abdenur J, Mozaffar T, Calvas P, Labauge P, Pages M, Wallace D, Lambert J and Paquis-Flucklinger V.
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Rapid identification of unknown heteroplasmic mutations across the entire human mitochondrial genome with mismatch-specific Surveyor nuclease.

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Bannwarth S, Procaccio V, Paquis-Flucklinger V.
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Plant Biology

Site-directed mutagenesis in *Arabidopsis* using custom-designed zinc finger nucleases.

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A Modified TILLING Method for Wheat Breeding.

Dong C, Dalton-Morgan J, Vincent K, Sharp P.
The Plant Genome 2, 39-47 (2009).

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Galeano C, Gomez M, Rodriguez L, Blair M.
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Self-EcoTILLING to identify single-nucleotide mutations in multigene family.

Wang G-X, Imaizumi T, Li W, Saitoh H, Terauchi R, Ohsako T, Tominaga T.
Pest Biochem. Physiol. 92, 24-29 (2008).

TILLMore, a resource for the discovery of chemically induced mutants in barley.

Talamè V, Bovina R, Sanguineti M, Tuberosa R, Lundqvist U, Salvi S.
Plant Biotechnol. J. 6, 477-485 (2008).

A structured mutant population for forward and reverse genetics in Barley (*Hordeum vulgare* L.).

Caldwell D, McCallum N, Shaw P, Muehlbauer G, Marshall D, Waugh R.
Plant J. 40, 143-150 (2004).

Heteroduplex detection with a plant DNA endonuclease for standard gel electrophoresis.

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Microbiology

Generation of targeted *Chlamydia trachomatis* null mutants. Kari L, Goheen M, Randall L, Taylor L, Carlson J, Whitmire W, Virok D, Rajaram K, Endresz V, McClarty G, Nelson D, Caldwell H. *Proc Natl Acad Sci U S A.* 108 7189-93 (2011).

Temperature-mediated heteroduplex analysis for the detection of drug-resistant gene mutations in clinical isolates of *Mycobacterium tuberculosis* by denaturing HPLC, SURVEYOR nuclease.

Shi R, Otomo K, Yamada H, Tatsumi T, Sugawara I. *Microbes Infect.* 8, 128-135 (2006).

Localization, mobility and fidelity of retrotransposed Group II introns in rRNA genes.

Conlan L, Stanger M, Ichihyanagi K, Belfort M. *Nucleic Acids Res.* 33, 5262-5270 (2005).

Surveyor Nuclease use with TALE Nucleases

A do-it-yourself protocol for simple transcription activator-like effector assembly.

Uhde-Stone C, Gor N, Chin T, Huang J, Lu B. *Biol Proced Online.* 15, 3 (2013).

Differential integrity of TALE nuclease genes following adenoviral and lentiviral vector gene transfer into human cells.

Holkers M, Maggio I, Liu J, Janssen J, Miselli F, Mussolino C, Recchia A, Cathomen T, Gonçalves M. *Nucleic Acids Res.* 2012 Dec 28. [Epub ahead of print]

Non-transgenic genome modifications in a hemimetabolous insect using zinc-finger and TAL effector nucleases.

Watanabe T, Ochiai H, Sakuma T, Horch H, Hamaguchi, N, Nakamura T, Bando T, Ohuchi H, Yamamoto T, Noji S, Mito T. *Nat Commun* 3, 1017 (2012).

A transcription activator-like effector toolbox for genome engineering.

Sanjana N; Cong L; Zhou Y, Cunniff M, Feng G, Zhang F. *Nat Protoc* 7 171-192 (2012).

Knockout rats generated by embryo microinjection of TALENs.

Tesson L, Usal C, Ménoret S, Leung E, Niles B, Remy S, Santiago Y, Vincent A, Meng X, Zhang L, Gregory P, Anegón I, Cost G. *Nat Biotechnol.* 29, 695–696 (2011).

A TALE nuclease architecture for efficient genome editing. Miller

J, Tan S, Qiao G, Barlow KA, Wang J, Xia D, Meng X, Paschon D, Leung E, Hinkley S, Dulay G, Hua K, Ankoudinova I, Cost G, Urnov F, Zhang H, Holmes M, Zhang L, Gregory P, Rebar E. *Nat. Biotechnol.* 29, 143-148 (2011).

Surveyor Nuclease use with Zinc Finger Nucleases

Efficient Clinical Scale Gene Modification via Zinc Finger Nuclease Targeted Disruption of the HIV Co-Receptor CCR5.

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Genetic mutation of recombination activating Gene 1 in Dahl salt-sensitive rats attenuates hypertension and renal damage.

Mattson D, Lund H, Guo C, Rudemiller N, Geurts A, Jacob H. *Am J Physiol Regul Integr Comp Physiol.* 2013 Jan 30. [Epub ahead of print]

Chromatin structure of two genomic sites for targeted transgene integration in induced pluripotent stem cells and hematopoietic stem cells.

van Rensburg R, Beyer I, Yao X, Wang H, Denisenko O, Li Z, Russell D, Miller D, Gregory P, Holmes M, Bomsztyk K, Lieber A. *Gene Ther.* 20, 201-14 (2013).

RNA-programmed genome editing in human cells.

Jinek M, East A, Cheng A, Lin S, Ma E, Doudna J. *Elife.* 2, e00471 (2013).

A foundation for universal T-cell based immunotherapy: T cells engineered to express a CD19-specific chimeric-antigen-receptor and eliminate expression of endogenous TCR.

Torikai H, Reik A, Liu P, Zhou Y, Zhang L, Maiti S, Huls H, Miller J, Kebriaei P, Rabinovitch B, Lee D, Champlin R, Bonini C, Naldini L, Rebar E, Gregory P, Holmes M, Cooper L. *Blood.* 119, 5697-705 (2012).

Biallelic knockout of the α -1,3 galactosyltransferase gene in porcine liver-derived cells using zinc finger nucleases.

Li P, Estrada J, Burlak C, Tector A. *J Surg Res.* 2012 Jul 3. [Epub ahead of print]

Zinc-finger nucleases: how to play two good hands.

Islan M. *Nat Methods.* 9, 32-4 (2011).

Targeted gene knockout by direct delivery of zinc-finger nuclease proteins.

Gaj T, Guo J, Kato Y, Sirk S, Barbas C. *Nat Methods.* 9, 805-7 (2012).

Synthetic zinc finger nuclease design and rapid assembly.

Osborn M, DeFeo A, Blazar B, Tolar J. *Hum Gene Ther.* 22, 1155-65 (2011).

Engineering HIV-Resistant Human CD4+ T Cells with CXCR4-Specific Zinc-Finger Nucleases.

Wilén CB, Wang J, Tilton JC, Miller JC, Kim KA, et al. *PLoS Pathog* 7, e1002020 (2011)

DNA Ligase III Promotes Alternative Nonhomologous End-Joining during Chromosomal Translocation Formation.

Simsek D, Brunet E, Wong SY-W, Katyal S, Gao Y, et al. *PLoS Genet* 7, e1002080. (2011)

Efficient generation of a biallelic knockout in pigs using zinc-finger nucleases.

Hauschild J, Petersen B, Santiago Y, Queisser A, Carnwath J, Lucas-Hahn A, Zhang L, Meng X, Gregory P, Schwinzer R, Cost G, Niemann H. *Proc Natl Acad Sci U S A.* 108, 12013-7 (2011).

Surveyor Nuclease use with Zinc Finger Nucleases continued

Gene Editing of Human Embryonic Stem Cells via an Engineered Baculoviral Vector Carrying Zinc-finger Nucleases. Lei Y, Lee C-L, Joo K-I, Zarzar J, Liu Y, Dai B, Fox V, Wang P. *Mol Ther.* 19, 942-950 (2011).

Gene targeting to the ROSA26 locus directed by engineered zinc finger nucleases. Perez-Pinera P, Ousterout D, Brown M, Gersbach C. *Nucleic Acids Res.* 2011 Dec 14. [Epub ahead of print]

Transient cold shock enhances zinc-finger nuclease-mediated gene disruption. Doyon Y, Choi V, Xia D, Vo T, Gregory P, Holmes M. *Nat Methods* 7, 459-460 (2010).

Knockout of exogenous EGFP gene in porcine somatic cells using zinc-finger nucleases. Watanabe M, Umeyama K, Matsunari H, Takayanagi S, Haruyama E, Nakano K, Fujiwara T, Ikezawa Y, Nakauchi H, Nagashima H. *Biochem. Biophys. Res. Commun.* 402, 14-18 (2010).

Generation of gene-specific mutated rats using zinc-finger nucleases. Geurts A, Cost G, Rémy S, Cui X, Tesson L, Usal C, Ménoret S, Jacob H, Anegon I, Buelow R. *Methods Mol. Biol.* 597, 211-225 (2010).

Knockout rats via embryo microinjection of zinc-finger nucleases. Geurts A, Cost G, Freyvert Y, Zeitler B, Miller J, Choi V, Jenkins S, Wood A, Cui X, Meng X, Vincent A, Lam S, Michalkiewicz M, Schilling R, Foeckler J, Kalloway S, Weiler H, Ménoret S, Anegon I, Davis G, Zhang L, Rebar E, Gregory P, Urnov F, Jacob J, Buelow R. *Science* 325, 433 (2009).

Synthetic Gene Error Correction

Enrichment of Error-Free Synthetic DNA Sequences by CEL I Nuclease. Hughes R, Miklos A, Ellington A. *Curr Protoc Mol Biol Chpt 3 Unit 3.24* (2012).

Enzymatic on-Chip Enhancement for High Resolution Genotyping DNA Microarrays. Schulze H, Barl T, Vase H, Baier S, Thomas P, Giraud G, Crain J, Bachmann TT. *Anal Chem.* 84, 5080-4 (2012).

Error correction of microchip synthesized genes using Surveyor nuclease. Saaem I, Ma S, Quan J, Tian J. *Nucleic Acids Res.* 40, e23 (2012).

Parallel on-chip gene synthesis and application to optimization of protein expression. Quan J, Saaem I, Tang N, Ma S, Negre N, Gong H, White KP, Tian J. *Nat Biotechnol.* 29 449-52 (2011).

Endonucleases: tools to correct the dystrophin gene. Rousseau J, Chapdelaine P, Boisvert S, Almeida L, Corbeil J, Montpetit A, Tremblay J. *J Gene Med.* 13, 522-37 (2011).

Other Surveyor Nuclease Applications

Multiplex genome engineering using CRISPR/Cas systems. Cong L, Ran FA, Cox D, Lin S, Barretto R, Habib N, Hsu PD, Wu X, Jiang W, Marraffini LA, Zhang F. *Science.* 339, 819-23 (2013)

A simple, high sensitivity mutation screening using Ampligase mediated T7 endonuclease I and Surveyor nuclease with microfluidic capillary electrophoresis. Huang M, Cheong W, Lim L, Li M. *Electrophoresis* 2012 Mar 33(5) 788-796

A highly sensitive and specific biosensor for ligation- and PCR-free detection of MicroRNAs. Gao Z, Peng Y. *Biosens Bioelectron.* 26, 3768-3773 (2011).

s-RT-MELT: a novel technology for mutation screening. Li J, Makrigiorgos GM. *Methods Mol Biol.* 653, 207-19 (2010).

A rapid and general assay for monitoring endogenous gene modification. Guschin D, Waite A, Katibah G, Miller J, Holmes M, Rebar E. *Methods Mol Biol.* 649, 247-56 (2010).

High-throughput identification of mutations using a combination of CEL I fragmentation and SAGE technology. Zhang C, Li Y, Wang X, Zhang L, Li X, Wang Y, Xu S. *Genet Test Mol Biomarkers* 13, 97-103 (2009).

Endonucleolytic mutation analysis by internal labeling (EMAIL). Cross M, Waters D, Lee L, Henry R. *Electrophoresis* 29, 1291-1301 (2008).

Development of a simple and highly sensitive mutation screening system by enzyme mismatch cleavage with optimized conditions for standard laboratories. Tsuji T, Niida Y. *Electrophoresis* 29, 1473-83 (2008).

s-RT-MELT for rapid mutation scanning using enzymatic selection and real time DNA-melting: new potential for multiplex genetic analysis. Li J, Berbeco R, Distel R, Jänne P, Wang L, Makrigiorgos GM. *Nucleic Acids Res.* 35, e84 (2007).

Other SURVEYOR Nuclease Applications continued

Surveyor nuclease-based genotyping of SNPs.

Mitani N, Tanaka S, Okamoto Y.
Clin. Lab. 52, 385-6 (2006).

A method for clone sequence confirmation using a mismatch-specific DNA endonuclease.

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Improving specificity of DNA hybridization-based methods.

Chalaya T, Gogvadze E, Buzdin A, Kovalskaya E, Sverdlov ED.
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Biotechniques 36, 702-707 (2004).



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