

Powering Discovery

# SensiMix™ Reference List

Volume 1



# SensiMix™ Reference List

Real-time PCR is one of the most powerful and sensitive gene analysis techniques available and since its introduction in the early 90's it has become the standard in industrial, academic and diagnostic laboratories, taking over from semi-quantitative methods such as Northern and Southern blot hybridization and conventional end-point PCR. Its effectiveness, particularly at amplification and quantification of low levels of nucleic acids, has driven the emergence of numerous applications, including cellular mRNA and miRNA quantification, biomarker discovery and validation, microbial quantification, cancer risk assessment, gene dosage determination, and detection of extremely low copy targets for forensic investigations. Furthermore, real-time PCR has become the preferred method for validating results obtained from microarray analyses and other techniques that evaluate gene expression changes on a global scale.

This success has been helped, in no small part, by the development of optimized reagents and kits, such as the SensiMix™ range, designed and pretested for the numerous real-time instruments on the market. Powered by our proprietary high quality hot-start PCR enzyme, SensiTaq, the SensiMix range delivers outstanding reproducible, sensitive and specific results across a wide dynamic range of template DNA and RNA concentrations. With very rapid enzyme-extension rates, faster cycling conditions can be used without compromising PCR efficiency, making it ideal even for the new generation of fast-cyclers. These kits are also well suited for multiplex real-time PCR reactions, thereby reducing the optimization required for these challenging assays.

This Reference List includes over 100 scientific publications in which SensiMix products have been used in applications ranging from allergy to symbiosis and in plants, fungi, bacteria, insects all the way through to humans, showing why it has become a gold standard in many laboratories. The citations are arranged by year, product and then application for your convenience. If you have a (paper) publication using SensiMix and we have not included it, please let us know and we will add it to the next edition.

Index																			
By Year																			
2009	01-46																		
2008	47-78																		
2007	79-98																		
2006	99-104																		
2005	105																		
By Product																			
<b>SensiMix™</b> SYBR No-ROX	10	30	37	38	46	52	54	59	61										
<b>SensiMix™</b> SYBR One-Step	05	26	29	35	45	51	69	78	91										
<b>SensiMix™</b> SYBR	01	03	04	06	07	09	12	13	14	15	16	17	18	19	20	21	22	23	24
	25	27	31	32	33	34	36	39	40	41	42	43	44	47	48	49	50	56	58
	60	63	66	67	70	71	72	73	74	75	76	77	79	80	81	82	83	84	85
	86	87	88	89	90	92	93	94	95	98	99	100	102	103	104	105			
<b>SensiMix™</b> SYBR & Fluorescein	11	53	62	64															
<b>SensiMix™</b> HRM	02	08	55																
<b>SensiMix™</b> Probe	28	57	65	68	96	97	101												
By Application																			
Allergy	96																		
Behavioral Genetics	10																		
Cell	04	16	18	19	21	22	24	26	28	31	36	43	44	45	53	61	64	66	72
	73	75	76	80	81	82	83	86	88	90	93	94	95	97	99	101	104		
Development	39	40	48	52	84	92													
Environmental	46	105																	
Genetic Evolution	14	25	54																
Heart	15	58	100																
Infection	02	05	06	08	09	11	27	29	32	34	37	41	60	63	67	68	74	79	89
	102																		
Immunology	03	87																	
Kidney	07	77																	
Lung	12	13	35	59															
Methods	01	17	23	38	42	50	56	57	65	71	103								
Oncology	33	55	69	78	91														
Reproduction	20	30	62	98															
Resistance	47																		
Stem Cell	49	70	85																
Symbiosis	51																		

## CITATIONS

2009

- 1 Andersson P., Harris T., Tong S.Y., and Giffard P.M. (2009) **Analysis of *bla*<sub>SHV</sub> Codon 238 and 240 Allele Mixtures Using Sybr Green High-Resolution Melting Analysis** *Antimicrobial agents and chemotherapy* 53(6): 2679-83
- 2 Andrianantoanirina V., Lascombes V., Ratsimbaoa A., Bouchier C., Hoffmand J., Tichit M., Rabarijaona L-P., Durande R., Ménard D. (2009) **Rapid detection of point mutations in *Plasmodium falciparum* genes associated with antimalarial drugs resistance by using High-Resolution Melting analysis** *Journal of Microbiological Methods* 78(2): 165-170
- 3 Baumert A., Bruckmaier R.M., Wellnitz O. (2009) **Cell population viability and some key immunomodulatory molecules in different milk somatic cell samples in dairy cows** *J. Dairy Research* 76(3): 356-364
- 4 Brinkkoetter P.T., Olivier P., Wu J.S., Henderson S., Krofft R.D., Pippin J.W., Hockenbery D., Roberts J.M., Shankland S.J. (2009) **Cyclin I activates Cdk5 and regulates expression of Bcl-2 and Bcl-XL in postmitotic mouse cells** *J. Clin. Invest.* DOI: 10.1172/JCI37978.
- 5 Brown A.E., Baumbach J., Cook P.E., and Ligoxygakis P. (2009) **Short-Term Starvation of Immune Deficient *Drosophila* Improves Survival to Gram-Negative Bacterial Infections** *PLoS ONE* 4(2): e4490
- 6 Buitrago M. J., Merino P., Puente S., Gomez-Lopez A., Arribi A., Zancopé-Oliveira R. M., Gutierrez M. C., Rodriguez-Tudela J. L., Cuenca-Estrella M. (2009) **Utility of Real-time PCR for the detection of *Paracoccidioides brasiliensis* DNA in the diagnosis of imported paracoccidioidomycosis** *Medical Mycology* 47(1): 1460-2709
- 7 Bukowska A., Lendeckel U., Krohn A., Keilhoff G., ten Have S., Neumann K.H., Goette A. (2009) **Atrial fibrillation down-regulates renal neutral endopeptidase expression and induces profibrotic pathways in the kidney** *Europace* DOI: 10.1093/europace/eun206
- 8 Chana W-F., Maharjana R.P., Reeves P.R., Sintchenko V., Gilbert G.L., Lan R. (2009) **Rapid and accurate typing of *Bordetella pertussis* targeting genes encoding acellular vaccine antigens using real time PCR and High Resolution Melt analysis** *Journal of Microbiological Methods* 77(3): 326-329
- 9 Cruickshank S.M., Deschoolmeester M.L., Svensson M., Howell G., Bazakou A., Logunova L., Little M.C., English N., Mack M., Grecis R.K., Else K.J. and Carding S.R. (2009) **Rapid Dendritic Cell Mobilisation to the Large Intestinal Epithelium is Associated with Resistance to *Trichuris muris* Infection** *J. Immunol.* 182(5): 3055-3062
- 10 Doe C.M., Relkovic D., Garfield A.S., Dalley J.W., Theobald D.E.H., Humby T., Wilkinson L. S., Isles A.R. (2009) **Loss of the imprinted snoRNA *mbii-52* leads to increased *5htr2c* pre-RNA editing and altered 5HT<sub>2C</sub> R-mediated behaviour** *Human Molecular Genetics* 18(12): 2140-2148
- 11 Dhawan R., Luo H., Foerster M.A., AbuQamar S., Du H-N., Briggs S.D., Scheid O.M., Mengiste T. (2009) **HISTONE MONOUBIQUITINATION1 Interacts with a Subunit of the Mediator Complex and Regulates Defense against Necrotrophic Fungal Pathogens in *Arabidopsis*** *The Plant Cell* 21: 1000-1019
- 12 Ferrer E., Peinado V.I., Díez M., Carrasco J.L., Musri M.M., Martínez A., Rodríguez-Roisin R., Barberà J.A. (2009) **Effects of cigarette smoke on endothelial function of pulmonary arteries in the guinea pig** *Respiratory Research* 10: 76
- 13 Gharib S.A., Liles W.C., Klaff L.S., Altemeier W.A. (2009) **Noninjurious mechanical ventilation activates a proinflammatory transcriptional program in the lung** *Physiological Genomics* 37: 239-248
- 14 Kaltenpoth M., Goettler W., Koehler S., Strohm E. (2009) **Life cycle and population dynamics of a protective insect symbiont reveal severe bottlenecks during vertical transmission** *Evol Ecol* (Published Online) DOI: 10.1007/s10682-009-9319-z
- 15 Kenagy R.D., Min S-K., Clowes A.W., Sandy J.D. (2009) **Cell Death-associated ADAMTS4 and Versican Degradation in Vascular Tissue** *Journal of Histochemistry and Cytochemistry* 57(9): 889-897
- 16 Khadaroo B., Teixeira M.T., Luciano P., Eckert-Boulet N., Germann S.M., Simon M.N., Gallina I., Abdallah P., Gilson E., Géli V., Lisby M. (2009) **The DNA damage response at eroded telomeres and tethering to the nuclear pore complex** *Nat. Cell Biol.* 11(8): 980-987.
- 17 Kobayashi H., Oethinger M., Tuohy M.J., Procop G.W., Bauer T. W. (2009) **Improved Detection of Biofilm-formative Bacteria by Vortexing and Sonication: A Pilot Study** *Clin. Ortho. Related Res.* 467(5): 1360-1364

- 18 Kurscheid S., Lew-Tabor A.E., Valle M.R., Bruyeres A.G., Doogan V.J., Munderloh U.G., Guerrero F.D., Barrero R.A., Bellgard M.I. (2009) **Evidence of a tick RNAi pathway by comparative genomics and reverse genetics screen of targets with known loss-of-function phenotypes in *Drosophila*** *BMC Molecular Biology* 10: 26
- 19 Lampe V, Dierks C., Distl O. (2009) **Refinement of a quantitative gene locus on equine chromosome 16 responsible for osteochondrosis in Hanoverian warmblood horses** *Animal* 3(9): 1224-1231
- 20 Lappas M., Lim R., Riley C., Rice G., Permezel M. (2009) **Localisation and Expression of FoxO1 Proteins in Human Gestational Tissues** *Placenta* 30(3): 256-262
- 21 Messner S., Schuermann D., Altmeyer M., Kassner I., Schmidt D., Schär P., Müller S., Hottiger M.O. (2009) **Sumoylation of poly(ADP-ribose) polymerase 1 inhibits its acetylation and restrains transcriptional coactivator function** *FASEB J.* 0: fj.09-137695v2
- 22 Milton S., Lobarinas E., West N., Mawer P., Butler A., Salvi R., Barnes N. (2009) **Quantitative PCR analysis of 5-HT receptor expression in tissue from the inferior colliculus and cochlear nucleus of an animal model of tinnitus** *Proceedings of the British Pharmacological Society* pA2online 6(4): 139P
- 23 Moreau V., Voirin E., Paris C., Kotera M., Nothisen M., Rémy J-S., Behr J-P., Erbacher P., Lenne-Samuel N. (2009) **Zip Nucleic Acids: new high affinity oligonucleotides as potent primers for PCR and reverse transcription** *N.A.R.*, DOI: 10.1093/nar/gkp66
- 24 Naito M., Bomsztyk K., Zager R.A. (2009) **Renal Ischemia-Induced Cholesterol Loading Transcription Factor Recruitment and Chromatin Remodeling along the HMG CoA Reductase Gene** *Am J Pathol.* 174(1): 54-62.
- 25 Navajas-Pérez R., del Bosque M.E.Q., Garrido-Ramos M.A. (2009) **Effect of location, organization, and repeat-copy number in satellite-DNA evolution** *Mole. Gene. Genomics* (Published Online) 10.1007/s00438-009-0472-4
- 26 Jochmann N., Kurze A-K., Czaja L.F., Brinkrolf K., Brune I., Hüser A.T., Hansmeier N., Pühler A., Borovok I., Tauch A. (2009) **Genetic makeup of the *Corynebacterium glutamicum* LexA regulon deduced from comparative transcriptomics and *in vitro* DNA band shift assays** *Microbiology* 155: 1459-1477
- 27 Paccani R.S., Benagiano M., Capitani N., Zornetta I., Ladant D., Montecucco C., D'Elios M.M., Baldari C.T. (2009) **The Adenylate Cyclase Toxins of *Bacillus anthracis* and *Bordetella pertussis* Promote Th2 Cell Development by Shaping T Cell Antigen Receptor Signaling.** *PLoS Pathog* 5(3): e1000325
- 28 Palmer J.C., Baig S., Kehoe P.G., Love S. (2009) **Endothelin-Converting Enzyme-2 Is Increased in Alzheimer's Disease and Up-Regulated by A $\beta$**  *American Journal of Pathology.* 175(1): 262-270
- 29 Park S-I., Park D-H., Saif L.J., Jeong Y-U., Shin D-J., Chun Y-H, Park S-J, Kim H-J., Hosmillo M., Kwon H-J., Kang M-I., Cho K-O. (2009) **Development of SYBR Green real-time RT-PCR for rapid detection, quantitation and diagnosis of unclassified bovine enteric calicivirus** *J. Virol. Methods.* 159(1): 64-68
- 30 Parry L.J., Vodstrcil L.A., Madden A., Amir S.H., Baldwin K., Wlodek M.E., Nicholas K.R. (2009) **Normal mammary gland growth and lactation capacity in pregnant relaxin-deficient mice** *Reproduction, Fertility and Development* 21(4): 549-560
- 31 Pearce C., Hayden R.E., Bunce C.M., Khanim F.L. (2009) **Analysis of the role of COP9 Signalosome (CSN) subunits in K562; the first link between CSN and autophagy** *BMC Cell Biology* 10: 31
- 32 Pecson B.M., Martin L.V., Kohn T. (2009) **Quantitative PCR for determining the infectivity of bacteriophage MS2 upon inactivation by heat, UVB and singlet oxygen: advantages and limitations of an enzymatic treatment to reduce false-positive results** *Appl. Environ. Microbiol.* DOI: 10.1128/AEM.00425-09
- 33 Pickard M.R., Green A.R., Ellis I.O., Caldas C., Hedge V.L., Mourtada-Maarabouni M., Williams G.T. (2009) **Dysregulated expression of Fau and MELK is associated with poor prognosis in breast cancer** *Breast Cancer Research* 11(4): R60
- 34 Piper E.K., Jonsson N.N., Gondro C., Lew-Tabor A.E., Moolhuijzen P., Vance M.E., and Jackson L.A. (2009) **Immunological Profiles of *Bos taurus* and *Bos indicus* Cattle Infested with the Cattle Tick, *Rhipicephalus (Boophilus) microplus*** *Clinical and Vaccine Immunology* 16(7): 1074-1086
- 35 Remund K., Rechsteiner T., Guo Z., Hofer M., Boehler A. (2009) **Extra corporeal photopheresis in a rat model of pulmonary fibrosis** *Experimental Lung Research* 35(5): 359-370
- 36 Rosker C., Meur G., Taylor E.J.A., and Taylor C, W. (2009) **Functional Ryanodine Receptors in the Plasma Membrane of RINm5F Pancreatic  $\beta$ -Cells** *J. Biol. Chem.* 284(8): 5186-5194

- 37 Saeed H.A., Yousif Z.K., El Hassan M.M., Atti M.A. Mansour M.M. (2009) **A Real-Time Polymerase Chain Reaction Based Assay for the Detection of *Escherichia coli* in Patients with Urinary Tract Infection in the Sudan** *Research Journal of Microbiology* 4(4): 173-177
- 38 Schaerli Y., Wootton R.C., Robinson T., Stein V., Dunsby C., Neil M.A.A., French P.M.W., deMello A.J., Abell C., Hollfelder F. (2009) **Continuous-Flow Polymerase Chain Reaction of Single-Copy DNA in Microfluidic Microdroplets** *Anal. Chem.* 81(1): 302-306
- 39 Scholven J., Taras T., Sharbati S., Jennifer Schön J., Gabler C., Huber O., zum Büschenfelde D.M., Blin N., Einspanier R. (2009) **Intestinal Expression of TFF and Related Genes During Postnatal Development in a Piglet Probiotic Trial** *Cell Physiol Biochem* 23: 143-156
- 40 Shakib S., Desant G.E., Jenkinson W.E., Parnel S.M., Jenkinson E.J., Anderson G. (2009) **Checkpoints in the Development of Thymic Cortical Epithelial Cells** *J. Immunology* 182: 130-137
- 41 Sharbati S., Schramm K., Rempel S., Wang H., Andrich R., Tykiel V., Kunisch R., Lewin A. (2009) **Characterisation of porin genes from *Mycobacterium fortuitum* and their impact on growth** *BMC Microbiology* 9: 31
- 42 Sikes M.L., Bradshaw J.M., Ivory W.T., Lunsford J.L., McMillan R.E., Morrison C.R. (2009) **A streamlined method for rapid and sensitive chromatin immunoprecipitation** *J. Immuno. Meth.* 344(1): 58-63
- 43 Taylor SR. Gonzalez-Begne M. Sojka DK. Richardson JC. Sheardown SA. Harrison SM. Pusey CD. Tam FW. Elliott JI. (2009) **Lymphocytes from P2X7-deficient mice exhibit enhanced P2X7 responses** *J. Leukoc Biol.* 85(6): 978-86
- 44 Wagstaff, C., Yang T.J.W., Stead A. D., Buchanan-Wollaston V., Roberts J. (2009) **A molecular and structural characterization of senescing *Arabidopsis siliques* and comparison of transcriptional profiles with senescing petals and leaves.** *Plant Journal.* 57(4): 690-705
- 45 Wobbe L., Blifernoz O., Schwarz C., Mussgnug J.H., Nickelsen J., Kruse O. (2009) **Cysteine modification of a specific repressor protein controls the translational status of nucleus-encoded LHCII mRNAs in *Chlamydomonas*** *PNAS* 106(32): 13290-13295
- 46 Zwielerhner J., Liszt K., Handschur M., Lassl C., Lapin A., G. Haslberger A.G. (2009) **Combined PCR-DGGE fingerprinting and quantitative-PCR indicates shifts in fecal population sizes and diversity of *Bacteroides*, bifidobacteria and *Clostridium* cluster IV in institutionalized elderly** *Experimental Gerontology* 44(6-7): 440-446

## 2008

- 47 Anstead J.A., Williamson M.S., Denholm I. (2008) **New methods for the detection of insecticide resistant *Myzus persicae* in the U.K. suction trap network** *Agricultural and Forest Entomology* 10(3): 291 - 295
- 48 Barker H.E, Smyth G.K., Wettenhall J., Ward T.A, Bath M.L, Lindeman G.J, Visvader J.E. (2008) **Deaf-1 regulates epithelial cell proliferation and side-branching in the mammary gland** *BMC Developmental Biology* 8(1): 94
- 49 Bernardo A.S., Cho C.H.H., Mason S., Docherty H.M., Pedersen R.A., Vallier L., Docherty K. (2008) **Biphasic Induction of Pdx1 in Mouse and Human Embryonic Stem Cells Can Mimic Development of Pancreatic  $\beta$ -Cells** *Stem Cells* 27(2): 341-351
- 50 Castelli M.V., Buitrago M.J., Bernal-Martinez L., Gomez-Lopez A., Rodriguez-Tudela J.L., Cuenca-Estrella M. (2008) **Development and Validation of a Quantitative PCR Assay for Diagnosis of *Scedosporiosis*** *J. Clin. Micro.* 46(10): 3412-3416
- 51 Bahlawane C., McIntosh M., Krol E., Becker A. (2008) ***Sinorhizobium meliloti* Regulator MucR Couples Exopolysaccharide Synthesis and Motility** *Molecular Plant-Microbe Interactions* 21(11): 1498-1509
- 52 De Winter P., Sugden D., Baggott G. K. (2008) **Effect of egg turning and incubation time on carbonic anhydrase gene expression in the blastoderm of the Japanese quail (*Coturnix c. japonica*)** *British Poultry Science* 49(5): 566-573
- 53 Del Rosario B.C., Pemberton L.F. (2008) **Nap1 Links Transcription Elongation, Chromatin Assembly, and Messenger RNP Complex Biogenesis** *Molecular and Cellular Biology* 28(7): 2113-2124
- 54 Edwards C.A., Mungall A.J., Matthews L., Ryder E., Gray D.J., Pask A.J., Shaw G., Graves J.A.M., Rogers J., SAVOIR consortium, Dunham I., Renfree M.B., Ferguson-Smith A.C. (2008) **The Evolution of the DLK1-DIO3 Imprinted Domain in Mammals** *PLoS Biol* 6(6): e135.

- 55 FitzGerald L.M., Thomson R., Polanowski A., Patterson B., McKay J.D., Stankovich J., Dickinson J. L. (2008) **Sequence variants of -methylacyl-CoA racemase are associated with prostate cancer risk: A replication study in an ethnically homogeneous population** *The Prostate* 68(13): 1373-1379
- 56 Flanagan S., Nelson J.D., Castner D.G., Denisenko O., Bomsztyk K. (2008) **Microplate-based chromatin immunoprecipitation method, Matrix ChIP: a platform to study signaling of complex genomic events** *NAR* 36(3): e17
- 57 Heller L.C., Jones M., Ray H. Widen R.H. (2008) **Comparison of DNA Pyrosequencing with Alternative Methods for Identification of Mycobacteria** *J Clin Microbiol.* 46(6): 2092-2094
- 58 Himeda C.L., Ranish J.A., Hauschka S.D. (2008) **Quantitative Proteomic Identification of MAZ as a Transcriptional Regulator of Muscle-Specific Genes in Skeletal and Cardiac Myocytes** *Molecular and Cellular Biology* 28(20): 6521-6535
- 59 Hoyles R.K., Khan K., Shiwen X., Howat S.L., Lindahl G.E., Leoni P., du Bois R.M., Wells A.U., Black C.M., Abraham D.J., Denton C.P. (2008) **Fibroblast-specific perturbation of transforming growth factor beta signaling provides insight into potential pathogenic mechanisms of scleroderma-associated lung fibrosis: exaggerated response to alveolar epithelial injury in a novel mouse model** *Arthritis Rheum.* 58(4): 1175-88
- 60 Hunt D.M., Saldanha J.W., Brennan J.F., Benjamin P., Strom M., Cole J.A., Spreadbury C.L., Buxton R.S. (2008) **Single Nucleotide Polymorphisms That Cause Structural Changes in the Cyclic AMP Receptor Protein Transcriptional Regulator of the Tuberculosis Vaccine Strain *Mycobacterium bovis* BCG Alter Global Gene Expression without Attenuating Growth** *Infection and Immunity* 76(5): 2227-2234
- 61 Kawauchi J., Mischo H., Braglia P., Rondon A., Proudfoot N.J. (2008) **Budding yeast RNA polymerases I and II employ parallel mechanisms of transcriptional termination** *Genes & Dev.* 22: 1082-1092
- 62 Maatouk D.M., DiNapoli L., Alvers A., Parker K.L., Taketo M.M., Capel B. (2008) **Stabilization of  $\beta$ -catenin in XY gonads causes male-to-female sex-reversal** *Human Molecular Genetics* 17(19): 2949-2955
- 63 Marianelli. C: Martucciello. A: Tarantino. M: Vecchio. R: Iovane. G: Galiero. G. (2008) **Evaluation of Molecular Methods for the Detection of Brucella Species in Water Buffalo** *Milk J. Dairy Sci.* 91: 3779-3786
- 64 Miller M.R., Bridle A.R., Nichols P.D. and Carter C.G. (2008) **Increased Elongase and Desaturase Gene Expression with Stearidonic Acid Enriched Diet Does Not Enhance Long-Chain (n-3) Content of Seawater Atlantic Salmon (*Salmo salar* L.)** *J. Nutr.* 138(11): 2179-2185,
- 65 Muscillo M., Pourshaban M., Iaconelli M., Fontana S., Di Grazia A., Manzara S., Fadda G., Santangelo R., La Rosa G. (2008) **Detection and Quantification of Human Adenoviruses in Surface Waters by Nested PCR, TaqMan Real-Time PCR and Cell Culture Assays** *Water, Air, & Soil Pollution* 191: 1-4
- 66 Overton T.W., Justino M.C., Li Y., Baptista J.M., Melo A.M.P., Cole J.A., Saraiva L.M. (2008) **Widespread Distribution in Pathogenic Bacteria of Di-Iron Proteins That Repair Oxidative and Nitrosative Damage to Iron-Sulfur Centers** *Journal of Bacteriology* 190(6): 2004-2013
- 67 Prudêncio M., Rodrigues C.D., Hannus M., Martin C., Real E., Gonçalves L.A., Carret C., Dorkin R., Röhl I., Jahn-Hoffmann K., Luty A.J.F, Sauerwein R., Echeverri C.J., Mota M.M. (2008) **Kinome-Wide RNAi Screen Implicates at Least 5 Host Hepatocyte Kinases in *Plasmodium* Sporozoite Infection.** *PLoS Pathog* 4(11) e1000201
- 68 Quainoo A.K., Wetten A.C., Allainguillaume J. (2008) **The effectiveness of somatic embryogenesis in eliminating the cocoa swollen shoot virus from infected cocoa trees** *Journal of Virological Methods* 149: 91-96
- 69 Rosato R.R., Almenara J.A., Maggio S.C., Coe S., Atadja P., Dent P., Grant S. (2008) **Role of histone deacetylase inhibitor-induced reactive oxygen species and DNA damage in LAQ-824/fludarabine antileukemic interactions** *Mol. Cancer Ther.* 7: 3285
- 70 Smith J.R., Maguire S., Davis L.A., Alexander M., Yang F., Chandran S., ffrench-Constant C., Pedersen R.A. (2008) **Robust, Persistent Transgene Expression in Human ES Cells is Achieved with AAVS1-targeted Integration** *Stem Cells Express* DOI: 10.1634/stemcells.2007-0039
- 71 Sharbati-Tehrani S., Kutz-Lohroff B., Bergbauer R., Scholven J., Einspanier R. (2008) **miR-Q: a novel quantitative RT-PCR approach for the expression profiling of small RNA molecules such as miRNAs in a complex sample** *BMC Molecular Biology* 9: 34
- 72 Snyman M. and Cronje M.J. (2008) **Modulation of heat shock factors accompanies salicylic acid-mediated potentiation of Hsp70 in tomato seedlings** *Journal of Experimental Botany* 59(8): 2125-2132

- 73 Tovey S.C., Dedos S.C., Taylor E.J.A., Church J.E., Taylor C.W. (2008) **Selective coupling of type 6 adenylyl cyclase with type 2 IP<sub>3</sub> receptors mediates direct sensitization of IP<sub>3</sub> receptors by cAMP** *J. Cell Biol.* 183(2): 297-311
- 74 Uria M.J., Zhang Q., Li Y., Chan A., Exley R.M., Gollan B., Chan H., Feavers I., Yarwood A., Abad R., Borrow R., Fleck R.A., Mulloy B., Vazquez J.A., Tang C.M. (2008) **A generic mechanism in *Neisseria meningitidis* for enhanced resistance against bactericidal antibodies** *J Exp Med.* 205(6): 1423-1434.
- 75 Wilcockson D.C. & Simon G. Webster S.G. (2008) **Identification and developmental expression of mRNAs encoding putative insect cuticle hardening hormone, bursiconin the green shore crab *Carcinus maenas*** *General and Comparative Endocrinology* 156: 113-125
- 76 Wong J., Quinn C.M., Gelissen I.C., Brown A. J. (2008) **Endogenous 24(S),25-Epoxycholesterol Fine-tunes Acute Control of Cellular Cholesterol Homeostasis** *The Journal of Biological Chemistry* 283: 700-707
- 77 Zager R.A., Johnson A.C.M., Naito M., Bomsztyk K. (2008) **Maleate nephrotoxicity: mechanisms of injury and correlates with ischemic/hypoxic tubular cell death** *Am. J. Physiol. Renal Physiol.* 294: 187-197
- 78 Zhao W., Gomez G., Yu S-H., Ryan J. J., Schwartz L.B. (2008) **TGF- $\beta$ 1 Attenuates Mediator Release and De Novo Kit Expression by Human Skin Mast Cells through a Smad-Dependent Pathway** *The Journal of Immunology* 181: 7263-7272

## 2007

- 79 Bass C., Nikou D., Donnelly M.J., Williamson M.S., Ranson H., Ball A., Vontas J., Field L.M. (2007) **Detection of knockdown resistance (kdr) mutations in *Anopheles gambiae*: a comparison of two new high-throughput assays with existing methods.** *Malaria journal* 6: 111
- 80 Chappaz S., Flueck L., Farr A.G., Rolink A.G., Finke D. (2007) **Increased TSLP availability restores T- and B-cell compartments in adult IL-7-deficient mice** *Blood* 110(12): 3862-3870
- 81 Connolly R., Gates D., Loh N., Baban D., Thakker R., Johnston B., McCance D., Ardill J., O'Connor D.T., Taupenot L., McGinty A. (2007) **Cox-2 Promotes Chromogranin A Expression and Bioactivity: Evidence for a Prostaglandin E<sub>2</sub>-Dependent Mechanism and the Involvement of a Proximal Cyclic Adenosine 5'-Monophosphate-Responsive Element** *Endocrinology* 148(9): 4310-4317
- 82 Gottwein E., Mukherjee N., Sachse C., Frenzel C., Majoros W.H., Chi J-T. A., Braich R., Manoharan M., Soutschek J., Ohler U., Cullen B.R. (2007) **A viral microRNA functions as an orthologue of cellular miR-155** *Nature* 450: 1096-1099
- 83 Gratten J., Beraldi D., Lowder B.V., McRae A.F., Visscher P.M., Pemberton J.M., Slate J. (2007) **Compelling evidence that a single nucleotide substitution in *TYRP1* is responsible for coat-colour polymorphism in a free-living population of Soay sheep** *Proc. R. Soc.* 274(1610): 619-626
- 84 Hecht V., Knowles C.L., Schoor J.K.V., Liew L.C., Jones S.E., Lambert M.J.M., Weller J.L. (2007) **Pea *LATE BLOOMER 1* is a *GIGANTEA* ortholog with roles in photoperiodic flowering, de-etiolation and transcriptional regulation of circadian clock gene homologs** *Plant Physiology Preview* DOI: 10.1104/pp.107.096818
- 85 Johnson C.E., Crawford B.E., Stavridis M., Dam G.T., Wat A.L., Rushton G., Ward C.M., Wilson V., van Kuppevelt T.H., Esko J.D., Smith A., Gallagher J.T., Merry C.L.R. (2007) **Essential Alterations of Heparan Sulfate During the Differentiation of Embryonic Stem Cells to Sox1-Enhanced Green Fluorescent Protein-Expressing Neural Progenitor Cells** *Stem Cells* 25: 1913-1923
- 86 Kensuke Mio K., Kirkham J., Bonass W.A. (2007) **Possible Role of Extracellular Signal-Regulated Kinase Pathway in Regulation of Sox9 mRNA Expression in Chondrocytes under Hydrostatic Pressure** *J. Bioscience and Bioengineering* 104(6): 506-509
- 87 Liggins A.P., Cooper C.D.O., Lawrie C.H., Brown P.J., Collins G.P., Hatton C.S., Pulford K., Banham A.H. (2007) **MORC4, a novel member of the MORC family, is highly expressed in a subset of diffuse large B-cell lymphomas.** *British Journal of Haematology.* 138(4): 479-486
- 88 Maurel S., Houzet L., Garcia E.L., Telesnitsky A., Mougel M. (2007) **Characterization of a natural heterodimer between MLV genomic RNA and the SD9 retroelement generated by alternative splicing** *RNA* 13: 2266-2276
- 89 Murray S.L., Ingle R.A., Petersen L.N., Denby K.D. (2007) **Basal Resistance Against *Pseudomonas syringae* in *Arabidopsis* Involves WRKY53 and a Protein with Homology to a Nematode Resistance Protein** *Molecular Plant-Microbe Interactions* 20(11): 1431-1438.

- 90 Newland S.A., Macaulay I.C., Floto A.R., de Vet E.C., Ouwehand W.H., Watkins N.A., Lyons P.A., Campbell D.R. (2007) **The novel inhibitory receptor G6B is expressed on the surface of platelets and attenuates platelet function *in vitro*** *Blood* 110(11): 4806-4809
- 91 Rosato R.R., Almenara J.A., Coe S., Grant S. (2007) **The Multikinase Inhibitor Sorafenib Potentiates TRAIL Lethality in Human Leukemia Cells in Association with Mcl-1 and cFLIPL Down-regulation** *Cancer Research* 67(19): 9490-500
- 92 Rossi S.W., Chidgey A.P., Parnell S.M., Jenkinson W.E., Scott H.S., Boyd R.L., Jenkinson E.J., Anderson G. (2007) **Redefining epithelial progenitor potential in the developing thymus** *European Journal of Immunology* 37(9): 2411-2418
- 93 Shane R. Thomas S.R., Terentis A.C., Cai H., Takikawa O., Levina A., Lay P.A., Freewan M., Stocker R. (2007) **Post-translational Regulation of Human Indoleamine 2,3-Dioxygenase Activity by Nitric Oxide** *The Journal of Biological Chemistry* 282: 23778-23787.
- 94 Stock J.K., Giadrossi S., Casanova M., Brookes E., Vidal M., Koseki H., Brockdorff N., Fisher A.G., Pombo A. (2007) **Ring1-mediated ubiquitination of H2A restrains poised RNA polymerase II at bivalent genes in mouse ES cells** *Nature Cell Biology* 9(12): 1428-1435
- 95 Tachibana C., Biddick R., Law G.L., and Young E.T. (2007) **A Poised Initiation Complex Is Activated by SNF1** *J. Bio. Chem.* 282(52): 37308-37315
- 96 Tuckermann J.P., Kleiman A., Moriggl R., Spanbroek R., Neumann A., Illing A., Clausen B.E., Stride B., Förster I., Habenicht A.J.R., Reichardt H.M., Tronche F., Schmid W., Schütz G. (2007) **Macrophages and neutrophils are the targets for immune suppression by glucocorticoids in contact allergy** *J. Clin. Invest.* 117(5): 1381-1390
- 97 White H.E., Hal V.J.I., Cross N.C.P. (2007) **Methylation-Sensitive High-Resolution Melting-Curve Analysis of the SNRPN Gene as a Diagnostic Screen for Prader-Willi and Angelman Syndromes** *Clinical Chemistry* 53(11): 1960-1975
- 98 Zhou C.C., Ahmad S., Mi T., Xia L., Abbasi S., Hewett P.W., Sun C., Ahmed A., Kellems R.E., Xia Y. (2007) **Angiotensin II Induces Soluble fms-Like Tyrosine Kinase-1 Release via Calcineurin Signaling Pathway in Pregnancy** *Circulation Research* 100: 88

## 2006

- 99 Barrow J., Hay C., Ferguson L., Docherty H., Docherty K. (2006) **Transcription factor cycling on the insulin promoter** *FEBS Letters* 580(2): 711-715
- 100 Chung J.S., Wilcockson D.C., Zmora N., Zohar Y., Dirksen H., Webster S.G. (2006) **Identification and developmental expression of mRNAs encoding crustacean cardioactive peptide (CCAP) in decapod crustaceans** *Journal of Experimental Biology* 209: 3862-3872
- 101 Lamanna W.C., Baldwin R.J., Padvá M., Kalus I., Ten Dam G., Van Kuppevrlt T.H., Gallagher J.T., Von Figura K., Dierks T., Merry C.L.R. (2006) **Heparan sulfate 6-O-endosulfatases: discrete *in vivo* activities and functional cooperativity** *Biochem. J.* 400: 63-73
- 102 Makepeace B.L., Rodgers L., Trees A.J. (2006) **Rate of Elimination of Wolbachia pipientis by Doxycycline *In Vitro* Increases following Drug Withdrawal** *Antimicrobial Agents and Chemotherapy* 50(3): 922-927
- 103 Nolan T., Hands R.E., Bustin S.A. (2006) **Quantification of mRNA using real-time RT-PCR** *Nature Protocols* 1(3): 1559-1582
- 104 Reina J.H., Azzouz T.N., Hernandez N (2006) **Maf1, a New Player in the Regulation of Human RNA Polymerase III Transcription** *PLoS ONE* 1(1): e134

## 2005

- 105 Lowe C. D., Kemp S. J., Montagnes D. J. S. (2005) **An interdisciplinary approach to assess the functional diversity of free-living microscopic eukaryotes** *Aquat Microb Ecol* 41: 67-77

### 1. LICENSING INFORMATION

1.1. These reagents are provided for use in PCR. No licences to third party patents in respect of melting profile analysis are provided. Furthermore, melt profile analysis may require a third party license.

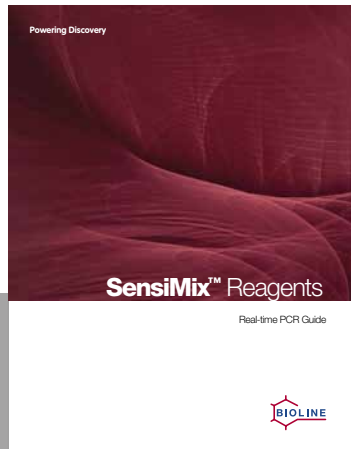
1.2. Bioline is an authorized distributor of SensiMix products, which are manufactured by Quantace Ltd.

### 2. TRADEMARKS

SensiMix™ (Quantace Ltd), MangoMix™, HyperLadder™ and TRIsure™ (Bioline Ltd), SYBR® Green (Molecular Probes), PRISM®, StepOne™ and ROX™ (Applied Biosystems), iCycler®, MyiQ™, iQ™5, Opticon™, Chromo4™, CFX384™ and CFX96™ (Bio-Rad), LightCycler® and TaqMan® (Roche Molecular Systems Inc), EvaGreen® (Biotium, Inc), HRM™ and Rotor-Gene™ (Corbett Research Pty Ltd), Mx4000®, Mx3000®, Mx3005P® (Stratagene Inc), Agilent Bioanalyzer (Agilent Technologies Inc), Scorpions™ (Sigma-Aldrich Co.), SmartCycler® (Cepheid), Quantica® (Techne), Mastercycler® (Eppendorf AG)

### 3. TERMS AND CONDITIONS

Full Terms and Conditions can be viewed online at [www.bioline.com](http://www.bioline.com)



To download an electronic version of the SensiMix™ Reagents Guide, please go to [www.bioline.com/sensimix](http://www.bioline.com/sensimix)



[www.bioline.com](http://www.bioline.com)

**United Kingdom**

**Bioline Ltd**

16 The Edge Business Centre  
Humber Road  
London NW2 6EW

**Tel:** +44 (0)20 8830 5300

**Fax:** +44 (0)20 8452 2822

**email:** [info.uk@bioline.com](mailto:info.uk@bioline.com)

**Germany**

**Bioline GmbH**

Im Biotechnologiepark, TGZ 2  
D-14943 Luckenwalde

**Tel:** +49 (0)3371 68 12 29

**Fax:** +49 (0)3371 68 12 44

**email:** [info.de@bioline.com](mailto:info.de@bioline.com)

**Australia**

**Bioline (Aust) Pty Ltd**

PO Box 122  
Alexandria NSW 1435

**Tel:** +61 (0)2 9209 4180

**Fax:** +61 (0)2 9209 4763

**email:** [info.aust@bioline.com](mailto:info.aust@bioline.com)

**USA**

**Bioline USA Inc.**

305 Constitution Drive  
Taunton MA 02780

**Tel:** +1 508 880 8990

**Fax:** +1 508 880 8993

**Order Toll Free:** +1 888 257 5155

**email:** [info.us@bioline.com](mailto:info.us@bioline.com)