

# Ambion Incorporated

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## Recent Publications by Ambion Incorporated:



- [LNA incorporated siRNAs exhibit lower off-target effects compared to 2'-OMethoxy in cell phenotypic assays and microarray analysis.](#)  
*Despite the promise of short interfering RNAs (siRNA), contending with...*9th September, 2008  
Ambion Inc., An Applied Biosystems Business, 2130 Woodward Street, Austin,- *Nucleic Acids Symp Ser (Oxf)*. 2008;(52):25-6. ([DOI Direct Link](#))
- [Synthesis and application of a new 2',3'-isopropylidene guanosine substituted cap analog.](#)  
*The synthesis and biological evaluation of a new cap analog, which is...*8th August, 2008  
Ambion, Inc., An Applied Biosystems Business, Bioorganic Chemistry- *Bioorg Med Chem Lett*. 2008 Sep 1;18(17):4828-32. Epub 2008 Jul 24. ([DOI Direct Link](#))
- [RNA analysis by nuclease protection.](#)  
*Nuclease protection assays (S1 nuclease protection and RNase protection)...*13th May, 2008  
Ambion, Inc., Austin, Texas, USA.- *Curr Protoc Neurosci*. 2003 Aug;Chapter 5:Unit 5.1. ([DOI Direct Link](#))
- [A step-by-step procedure to analyze the efficacy of siRNA using real-time PCR.](#)  
*Knockdown of cellular RNA using short interfering RNA has enabled...*3rd May, 2008  
Ambion, Applied Biosystems Inc., Austin, TX, USA.- *Methods Mol Biol*. 2008;419:303-16. ([DOI Direct Link](#))
- [Chemical Synthesis of LNA-mCTP and its application for MicroRNA detection.](#)  
*Locked nucleic acids (LNA) are being applied in hybridization studies, but...*15th April, 2008  
An Applied Biosystems Business, Bioorganic Chemistry Division, Ambion,- *Nucleosides Nucleotides Nucleic Acids*. 2008 Jan;27(1):1-17. ([DOI Direct Link](#))

- [Novel FRET-based assay to detect reverse transcriptase activity using modified dUTP analogues.](#)  
*We have developed a novel continuous assay to measure reverse...*4th April, 2008  
Ambion/Applied Biosystems, Research and Development Department, 2130- Bioconjug Chem. 2008 Jan;19(1):185-91. Epub 2007 Dec 29. ([DOI Direct Link](#))
- [Synthesis and biological evaluation of trimethyl-substituted cap analogs.](#)  
*The N(7)-methyl guanosine cap located on the 5'-terminus of mRNAs is...*25th March, 2008  
Ambion, Inc., An Applied Biosystems Business, Bioorganic Chemistry- Bioorg Med Chem Lett. 2008 Feb 1;18(3):880-4. Epub 2008 Jan 4. ([DOI Direct Link](#))
- [An industrial process for selective synthesis of 7-methyl guanosine 5'-diphosphate: versatile synthon for synthesis of mRNA cap analogues.](#)  
*We report an industrial scale facile synthesis of 7-methyl guanosine...*2nd February, 2008  
Ambion, Inc., Bioorganic Chemistry Division, 2130 Woodward St., Austin, TX- Nucleosides Nucleotides Nucleic Acids. 2006 Mar;25(3):337-40.
- [An efficient process for synthesis of 2'-O-methyl and 3'-O-methyl guanosine from 2-aminoadenosine using diazomethane and the catalyst stannous chloride.](#)  
*An improved strategy for the selective synthesis of 2'-O-methyl and...*2nd February, 2008  
Ambion, Inc., Bioorganic Chemistry Division, Austin, Texas 78744, USA.- Nucleosides Nucleotides Nucleic Acids. 2006 Mar;25(3):307-14.
- [Synthesis and application of 2'-fluoro-substituted cap analogs.](#)  
*Design, synthesis, and biological evaluation of 2'-fluoro-substituted cap...*6th December, 2007  
Ambion Inc., An Applied Biosystems Business, Bioorganic Chemistry- Bioorg Med Chem Lett. 2007 Oct 1;17(19):5295-9. Epub 2007 Aug 16. ([DOI Direct Link](#))
- [New tissue microarray technology for analyses of gene expression in frozen pathological samples.](#)  
*Tissue microarrays (TMAs) are widely used to analyze gene expression in...*31st August, 2007  
Ambion, Inc., Austin, TX , USA.- Biotechniques. 2007 Jul;43(1):101-5.
- [Adoption of array technologies into the clinical laboratory.](#)  
*Array-based methods are making substantial contributions to the discovery...*3rd February, 2007  
Ambion Diagnostics, 2130 Woodward Street, Austin, TX 78744, USA.- Expert Rev Mol Diagn. 2005 May;5(3):409-20. ([DOI Direct Link](#))
- [Role of miRNA and miRNA processing factors in development and disease.](#)  
*Mature microRNAs (miRNAs) are single-stranded RNA molecules of 17-24...*9th September, 2006  
Ambion, Inc., an Applied Biosystems Business, Austin, 78744, USA.- Birth Defects Res C Embryo Today. 2006 Jun;78(2):107-17. ([DOI Direct Link](#))
- [Systematic identification of microRNA functions by combining target prediction and expression profiling.](#)  
*Target predictions and validations are major obstacles facing microRNA...*6th April, 2006  
Ambion, Inc., 2130 Woodward Street, Austin, TX 78744, USA.- Nucleic Acids Res. 2006 Mar 20;34(5):1646-52. Print 2006. ([DOI Direct Link](#))
- [An optimized isolation and labeling platform for accurate microRNA expression profiling.](#)  
*MicroRNAs (miRNAs) are small, noncoding RNAs that regulate gene expression...*8th October, 2005  
Ambion, Inc., 2130 Woodward Street, Austin, TX 78744-1832, USA.- RNA. 2005 Sep;11(9):1461-70. Epub 2005 Jul 25. ([DOI Direct Link](#))

## BioNews Results for Ambion Incorporated



- [SOLiD\(TM\) System Enables Single Cell Gene Expression Profiling to Advance Stem Cell Research](#)  
*DiGiTAL50: Sep 17 2008 6:38PM Matching: ambion*
- [SOLiD\(TM\) System Enables Single Cell Gene Expression Profiling to](#)

- Business Wire via MSN Money: Sep 17 2008 12:01PM Matching: ambion*
- [Assessment of repeated microarray experiments using mixed tissue RNA reference samples](#)  
*Bio Techniques: Sep 7 2008 11:58AM Matching: ambion*
- [Applied Biosystems removes the bias from gene expression analysis](#)  
*LabTechnologist.com: Aug 31 2008 2:59AM Matching: ambion*
- [Applied Biosystems Expands Sequencing-based RNA Analysis Solutions Portfolio](#)  
*SmartBrief: Aug 28 2008 6:48AM Matching: ambion*
- [Research and Markets: The Molecular Diagnostics Market DNA Probes and Biochips: A 7-Country Market Survey](#)  
*Business Wire via Yahoo!: Aug 14 2008 2:54PM Matching: ambion*

## Ambion Incorporated Patents:



- 7250270- [Methods and compositions for preparing tissue samples for RNA extraction](#)
- 6399307- [Methods of quantifying viral load in an animal with a ribonuclease resistant RNA preparation](#)
- 6365731- [Stripping nucleic acids with iodine and sodium thiosulfate](#)
- 6204375- [Methods and reagents for preserving RNA in cell and tissue samples](#)
- 6057134- [Modulating the efficiency of nucleic acid amplification reactions with 3' modified oligonucleotides](#)
- 5939262- [Ribonuclease resistant RNA preparation and utilization](#)
- 5919625- [Ribonuclease resistant viral RNA standards](#)
- 5891629- [Compositions for improving RNase cleavage of base pair mismatches in double-stranded nucleic acids](#)
- 5677124- [Ribonuclease resistant viral RNA standards](#)
- 5589329- [Methods and compositions for detecting base pair mismatches](#)
- 5547862- [Vectors containing multiple promoters in the same orientation](#)
- 5422241- [Methods for the recovery of nucleic acids from reaction mixtures](#)
- 6528641- [Methods and reagents for preserving RNA in cell and tissue samples](#)
- 6586218- [Compositions and methods for increasing the yields of in vitro RNA transcription and other polynucleotide synthetic reactions](#)
- 7163793- [Nuclease inhibitor cocktail](#)
- 7067298- [Compositions and methods of using a synthetic Dnase I](#)
- 7033749- [Ribonuclease resistant RNA preparation and utilization](#)
- 6994963- [Methods for recombinatorial nucleic acid synthesis](#)
- 6897069- [System and method for electroporating a sample](#)
- 6891032- [Methods and compositions for stripping nucleic acids](#)
- 6825340- [Methods and reagents for inactivating ribonucleases](#)
- 6812341- [High efficiency mRNA isolation methods and compositions](#)
- 6777210- [Method and reagents for inactivating ribonucleases RNase A, RNase I and RNase T1](#)
- 6664379- [Nuclease inhibitor cocktail](#)
- 6586219- [Compositions and methods for increasing the yields of the in vitro RNA transcription and other polynucleotide synthetic reactions](#)
- 5256555- [Compositions and methods for increasing the yields of in vitro RNA transcription and other polynucleotide synthetic reactions](#)

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