

Supplementary Note 1

Filtering to improve TSS peak identification

We incorporated two additional analysis steps to ensure that our peak calling results accurately represented lab method performance. First, we evaluated whether specialized filtering programs improved the specificity and precision of each method. All methods, except Oligo capping and GRO-cap, will sometimes add a G base not present in the genome at the 5' end of the sequence read because reverse transcriptase tends to use the 5' 7-methylguanosine (m⁷G) cap as a template. We found improved precision with CapFilter¹⁴, which removes peaks containing less than a set percentage of reads with an extra G base at the 5' end of the read (**Supplementary Fig. 2**). We used it with a threshold of 20% extra G reads for all subsequent analysis in this study. We also tested the strand invasion²⁵ and RAMPAGE second read¹⁰ filters, which did not substantially improve performance of the relevant lab methods (**Supplementary Fig. 3a,b**).

Second, in our initial peak calling analysis, we observed low sensitivity for all methods due to a high level of apparent false negatives compared to in the UCSC annotation⁸ (**Supplementary Fig. 4**, dark blue bars). This was expected because transcripts that are expressed in our K-562 sample should reflect only a subset of all annotated TSSs. We therefore considered K-562 specific annotations, previously generated by DNase-Seq^{26,27}, which identifies genomic regions with open chromatin such as promoters, and removed from consideration those TSS peaks without a DNase-Seq peak in K-562 cells, because these are likely to be TSSs that are not active in K-562 cells (true negatives). We used this filtered annotation set in all subsequent analyses.

Supplementary Note 2

TSSs at single base resolution

With 5' RNA-Seq data, it is possible to determine a TSS at single base resolution. Previous studies have shown that the initiator sequence at the -1 and +1 position relative to the TSS is most often a pyrimidine and purine, respectively^{34, 35} and has been shown to be true for TSSs categorized as narrow or broad. In our datasets, we observe this pyrimidine and purine pattern, though the methods do differ to some extent in their biases for the bases in these positions (**Supplementary Fig. 8a,b**). Finding explanations for these differences is beyond the scope of this paper.

Supplementary Note 3

Reproducibility and gene expression quantification

We also assessed reproducibility and gene expression quantification accuracy for each method. For CAGE, $\geq 94\%$ of the peaks overlapped between any two pairs of libraries across four replicates (**Supplementary Fig. 9a**); for RAMPAGE, $\geq 90\%$ of peaks in one technical replicate were present in the other; for STRT, 89% and 95% concurred between two replicates. The replicates had similar performance with respect to reads aligning near the 5' end of annotated transcripts (**Supplementary Fig. 9b**) and with ERCC spike-ins (**Supplementary Tables 2-4**). We did not perform replicates of the other protocols: for Oligo Capping, because the Tobacco Acid Pyrophosphatase (TAP) enzyme is no longer commercially available; for NanoCAGE-XL, because it performed relatively poorly. To identify differential TSS usage, it is important for methods to accurately measure relative levels of gene expression. Expression levels measured for replicates of each method correlated well, with CAGE and RAMPAGE performing best (Pearson's $r=0.98-0.99$, **Supplementary Fig. 10a-c**). We also compared the expression levels for each of the lab methods and standard RNA-Seq (**Supplementary Fig. 10d**). Expression levels

measured with CAGE and standard RNA-Seq were relatively well correlated (Pearson's $r=0.86$, **Supplementary Fig. 10d**), whereas RAMPAGE expression levels did not correlate as well ($r=0.78$, **Supplementary Fig. 10d**), which is in agreement with the expression levels measured for spike-in RNAs (**Supplementary Table 4**). While most of the methods correlate fairly well with each other, NanoCAGE-XL did not due, at least in part, to it not detecting expression of many genes and being sequenced less deeply (**Supplementary Fig. 10d**).

Supplementary Note 4

Corroborative evidence for other methods

In addition to CAGE, we also investigated how corroborative evidence supported TSSs identified with the other 5' end RNA-Seq methods. Similar to CAGE, methods with good precision, RAMPAGE, STRT, and NanoCAGE-XL (**Fig. 3**), have support for most false positive and intergenic peaks (**Supplementary Fig. 11**). For GRO-cap, we see that most peaks have support from H3K4m3 and DNase-Seq, but not annotation or the consensus of other methods (**Supplementary Fig. 11**). This finding agrees well with previous findings that GRO-cap can identify TSSs in less stable transcripts that might not be annotated or found by other methods¹⁷. Finally, Oligo capping, which has poor precision (**Fig. 3**), had much less support for false positive peaks (**Supplementary Fig. 11**).

Supplementary Note 5

Discussion of excluded methods

The following methods were excluded because of their similarities to other methods or other issues. We did not test 5' SAGE¹ because it is another template switching method similar to

STRT, except that it concatenates 5' tag sequences, TL-Seq², TIF-Seq³, and paired-end analysis of TSSs (PEAT)⁴ because they are variants of oligo capping, DLAF⁵, because it has limitations in recognizing weak alternative TSSs that might be present downstream from a strong TSS, Start-Seq⁶, which uses short, capped nuclear RNA derived from stalled transcripts rather than full-length mRNA, because it is an indirect method that provides inaccurate measurements of the levels of TSS usage and requires the TAP enzyme, and Exo-Seq⁷, which identifies 5' ends based on the m⁷G cap's protection from exonuclease digestion, because it was published too recently to be included in our study. Finally, we note that there are sometimes multiple versions of a method, such as for NanoCAGE^{8,9} and CAGE^{10,11}, and we tested only one of each.

1. Zhang, Z. & Dietrich, F.S. Mapping of transcription start sites in *Saccharomyces cerevisiae* using 5' SAGE. *Nucleic Acids Res* **33**, 2838-2851 (2005).
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3. Pelechano, V., Wei, W., Jakob, P. & Steinmetz, L.M. Genome-wide identification of transcript start and end sites by transcript isoform sequencing. *Nat Protoc* **9**, 1740-1759 (2014).
4. Ni, T. et al. A paired-end sequencing strategy to map the complex landscape of transcription initiation. *Nat Methods* **7**, 521-527 (2010).
5. Agarwal, S., Macfarlan, T.S., Sartor, M.A. & Iwase, S. Sequencing of first-strand cDNA library reveals full-length transcriptomes. *Nat Commun* **6**, 6002 (2015).
6. Nechaev, S. et al. Global analysis of short RNAs reveals widespread promoter-proximal stalling and arrest of Pol II in *Drosophila*. *Science* **327**, 335-338 (2010).
7. Afik, S. et al. Defining the 5 and 3 landscape of the *Drosophila* transcriptome with Exo-seq and RNaseH-seq. *Nucleic Acids Res* (2017).
8. Cumbie, J.S., Ivanchenko, M.G. & Megraw, M. NanoCAGE-XL and CapFilter: an approach to genome wide identification of high confidence transcription start sites. *BMC Genomics* **16**, 597 (2015).
9. Salimullah, M., Sakai, M., Plessy, C. & Carninci, P. NanoCAGE: a high-resolution technique to discover and interrogate cell transcriptomes. *Cold Spring Harb Protoc* **2011**, pdb prot5559 (2011).
10. Murata, M. et al. Detecting expressed genes using CAGE. *Methods Mol Biol* **1164**, 67-85 (2014).
11. Takahashi, H., Kato, S., Murata, M. & Carninci, P. CAGE (cap analysis of gene expression): a protocol for the detection of promoter and transcriptional networks. *Methods Mol Biol* **786**, 181-200 (2012).

Supplementary Tables

Supplementary Table 1: Library sequencing metrics

For each library in this study, basic information about its construction, sequencing, analysis, and performance (QC metrics). All samples are from human sources. All K-562 data are from hard clipped STAR alignments; other data are from soft clipped STAR alignments. Metrics are only for read 1, except for Standard RNA-Seq. Reads aligned for CAGE Main and Standard RNA-Seq libraries are limited to PF reads.

Supplementary Table 2: ERCC spike-in RNA 5' end sequence coverage

For each K-562 library, this table reports the % (reads at position 10) / (all reads) for each spike-in transcript. Lowest for each library (red) and highest for each library (green). Used in pool of 8 (CAGE repeat & RAMPAGE repeat, highlighted in yellow). The CAGE Repeat, RAMPAGE Main, & STRT Main data are only from 1 of 2 lanes of sequencing. CAGE Main-6 was to be used to compare method performance for K-562 RNA, but not for spike-in transcripts because they are uncapped.

Supplementary Table 3: Reads aligning to ERCC spike-in RNA

For each K-562 library, this table reports the number of reads aligning to each ERCC spike-in. Used in pool of 8 (CAGE repeat & RAMPAGE repeat, yellow). Used in pool of 32 (green). CAGE repeat data are only from 1 of 2 lanes of sequencing.

Supplementary Table 4: Deviation of percentage of reads aligning to ERCC spike-in RNA between input and output

For each K-562 library and each ERCC spike-in, this table reports the mean quantitation error, the average of the absolute value of the difference between the input and output percentages.

Used in pool of 8 (CAGE repeat & RAMPAGE repeat, yellow). Used in pool of 32 (green).

CAGE repeat data are only from 1 of 2 lanes of sequencing. Calculations were done with reads aligning to the spike-ins added. Percentages shown are Absolute Value (Output - Input).

Supplementary Table 5: Analysis of eRNAs for Paraclu-called peaks in intergenic regions

For each method, corroborative data and analyses are shown to assess how many Paraclu-called peaks in intergenic regions could be eRNAs.

Supplementary Table 6: Analysis of eRNAs for paired peaks in intergenic regions

For each method, corroborative data and analyses are shown to assess how many paired peaks in intergenic regions could be eRNAs.

Supplementary Table 7: List of differentially TSS usage in brain neuron

For each brain-related sample, TSSs differentially used among the samples are listed. PR (peak reads) – only reads aligning to region defined as peak counted. NA values for p.adj are assigned when no comparison was made because PR is not above the threshold of 100 reads in two samples for that peak. Mean expression and Std. Dev are for the gene. Peak name is a concatenation of gene name, position in gene, and number peaks in gene. Scaled values are the percentage of peak reads in a given peak for that sample. One library was prepared from each sample (n=1).

Supplementary Table 8: Comparison of lab methods time, cost, and input

For each method, details about library construction are presented. Cost assumes eight reactions processed in single batch with a BioAnalyzer High Sensitivity DNA chip used for final QC.

Supplementary Table 9: Library sequencing details

For each library type, details about Illumina sequencing are reported.

Supplementary Table 10: External Datasets

Source for each external dataset is listed.

Supplementary Table 11: ERCC spike-in sequences

Complete sequence of each ERCC spike-in is listed.

Supplementary Table 12: Paraclu filtering parameters

For each sample, Paraclu filtering parameters (**Online Methods**) are listed.

Table S1

Method	Replicate	Read 1 trim	Read 2 trim	RNA Sample	RNA source (lot #)	Total Reads	Reads Aligned	% Reads Aligned	rRNA Bases	Coding Bases	UTR Bases	Intronic Bases	Intergenic Bases	Correct Strand Reads
CAGE	Main-1	3 + 6	0	K-562	Ambion (1409009)	8,340,957	7,631,449	91%	9.1%	15%	55%	7%	14%	99.7%
CAGE	Main-4	3 + 6	0	K-562	Ambion (1409009)	8,088,598	7,567,022	94%	13.5%	13%	50%	8%	16%	99.6%
CAGE	Main-6	3 + 6	0	K-562	Ambion (1409009)	7,842,538	7,391,797	94%	9.1%	14%	56%	7%	14%	99.7%
CAGE	Repeat	3 + 6	n/a	K-562	Ambion (1210018)	14,563,335	12,706,814	87%	17.0%	12%	52%	7%	13%	99.6%
Oligo Capping	Main	0	n/a	K-562	Ambion (1409009)	114,389,954	95,512,056	83%	0.6%	17%	63%	6%	15%	99.2%
RAMPAGE	Main	4	15	K-562	Ambion (1409009)	36,370,919	35,866,874	99%	12.7%	22%	53%	3%	9%	99.7%
RAMPAGE	Repeat	4	15	K-562	Ambion (1210018)	5,275,652	5,219,629	99%	11.7%	22%	55%	3%	8%	99.7%
STRT	Main	11	0	K-562	Ambion (1409009)	20,500,952	18,775,073	92%	1.8%	32%	49%	7%	10%	99.5%
STRT	Repeat	11	0	K-562	Ambion (1409009)	7,282,989	6,604,049	91%	1.1%	34%	46%	8%	11%	99.5%
STRT	Repeat-10ng	11	0	K-562	Ambion (1409009)	58,150,901	52,048,326	90%	2.9%	32%	48%	8%	9%	99.5%
STRT	Repeat-100ng	11	0	K-562	Ambion (1409009)	67,949,256	61,071,566	90%	3.7%	31%	48%	7%	9%	99.5%
STRT	RepeatA-1μg	11	0	K-562	Ambion (1409009)	55,966,586	50,909,724	91%	2.9%	32%	48%	7%	9%	99.5%
STRT	RepeatB-1μg	11	0	K-562	Ambion (1409009)	56,280,694	51,143,105	91%	2.7%	32%	48%	7%	9%	99.4%
STRT	RepeatA-5μg	11	0	K-562	Ambion (1409009)	52,227,631	47,471,979	91%	2.4%	33%	47%	8%	9%	99.4%
STRT	RepeatB-5μg	11	0	K-562	Ambion (1409009)	58,957,331	52,929,187	90%	2.5%	32%	47%	8%	10%	99.4%
STRT	RepeatA-10μg	11	0	K-562	Ambion (1409009)	55,749,637	50,211,000	90%	1.2%	36%	44%	8%	11%	99.6%
STRT	RepeatB-10μg	11	0	K-562	Ambion (1409009)	60,248,148	54,231,450	90%	1.1%	36%	43%	8%	11%	99.5%
NanoCAGE-XL	Main	6 + 12	0	K-562	Ambion (1409009)	6,957,156	6,407,741	92%	0.1%	34%	23%	27%	17%	99.6%
Standard RNA-Seq	Main	0	0	K-562	Ambion (not recorded)	59,695,850	54,819,796	92%	0.1%	28%	16%	33%	23%	99.3%
GRO-cap	Main	0	0	K-562	Core et al. <i>Nat Genet</i> (2014)	45,538,197	35,809,451	79%	1.3%	5%	26%	20%	47%	90.3%
CAGE	Main	3 + 6	0	Brain vascular smooth muscle cells	Sciencell	23,538,559	21,104,822	90%	13.1%	15%	60%	6%	8%	99.8%
CAGE	Main	3 + 6	0	Brain microvascular endothelial cells	Sciencell	31,173,330	29,588,075	95%	7.8%	15%	62%	5%	11%	99.8%
CAGE	Main	3 + 6	0	Neuron	Sciencell	15,837,644	14,862,756	94%	7.0%	13%	62%	7%	12%	99.6%
CAGE	Main	3 + 6	0	Astrocyte	Sciencell	17,716,230	16,602,202	94%	10.5%	14%	56%	7%	13%	99.7%
CAGE	Main	3 + 6	0	Fetal frontal lobe	Biochain	22,920,356	21,599,869	94%	5.5%	12%	61%	9%	13%	99.5%
CAGE	Main	3 + 6	0	Adult frontal lobe	Biochain	25,659,539	24,268,652	95%	16.8%	12%	48%	10%	15%	99.4%
CAGE	Main	3 + 6	0	Organoids	this paper	14,728,291	13,366,256	91%	10.6%	10%	39%	24%	18%	98.6%
CAGE	Main	3 + 6	0	<i>In vitro</i> excitatory neurons	this paper	26,257,718	24,499,412	93%	11.1%	12%	56%	11%	11%	99.4%

Table S2

Lab Method	CAGE	CAGE	CAGE	CAGE	Oligo Capping	RAMPAGE	RAMPAGE	STRT	STRT	STRT	STRT	STRT	STRT	STRT	STRT	STRT	STRT	STRT	NanoCAGE XL
Replicate	Main-1	Main-4	Main-6	Repeat	Main	Main	Repeat	Main	Repeat	Repeat-10ng	Repeat-100ng	RepeatA-1µg	RepeatB-1µg	RepeatA-5µg	RepeatB-5µg	RepeatA-10µg	RepeatB-10µg	Main	
Capped?	Yes	Yes	No	Yes	Yes	Yes	Yes	No	No	No	No	No	No	No	No	No	No	No	Yes
ERCC-00002	98.6%	99.0%	47.1%		91.7%	98.6%		96.9%	96.9%	96.8%	96.8%	96.2%	96.2%	96.7%	96.5%	94.3%	93.7%	39.3%	
ERCC-00003	99.1%	98.0%	61.0%		88.6%	99.2%		98.8%	97.8%	98.1%	98.6%	98.4%	98.6%	98.6%	98.5%	98.1%	98.0%	55.5%	
ERCC-00012	98.8%	99.2%	61.9%		97.0%	98.7%		96.9%	97.3%	95.0%	95.9%	95.7%	95.7%	96.1%	95.9%	94.6%	95.0%	84.8%	
ERCC-00017	96.1%	96.8%	71.8%		81.4%	97.7%		98.2%	98.2%	96.4%	97.0%	96.9%	96.7%	97.3%	97.0%	96.9%	96.8%	60.3%	
ERCC-00028	97.6%	98.6%	62.5%		74.0%	98.8%		97.4%	97.9%	97.3%	97.5%	97.7%	97.7%	97.9%	97.8%	97.7%	97.6%	37.8%	
ERCC-00031	96.4%	97.4%	32.1%		64.5%	98.8%		97.4%	97.2%	95.7%	95.6%	96.2%	96.1%	96.4%	96.6%	95.9%	96.2%	55.1%	
ERCC-00034	98.2%	98.4%	82.6%		77.0%	98.9%		94.4%	91.4%	94.6%	94.3%	93.1%	93.9%	93.4%	93.4%	88.9%	88.0%	34.7%	
ERCC-00035	97.7%	98.3%	71.7%		55.2%	99.1%		97.3%	96.7%	93.7%	95.0%	94.8%	94.7%	94.7%	95.2%	93.8%	94.3%	71.3%	
ERCC-00041	97.4%	97.9%	64.4%	98.1%	77.5%	99.1%	97.9%	97.2%	96.9%	96.0%	96.7%	96.3%	96.5%	96.8%	96.6%	95.0%	94.7%	81.5%	
ERCC-00042	93.5%	83.8%	62.7%	84.7%	36.0%	98.7%	98.2%	93.1%	89.1%	90.3%	90.3%	88.6%	88.3%	90.0%	88.7%	82.1%	79.2%	34.3%	
ERCC-00043	96.7%	96.8%	28.1%	97.6%	52.8%	87.0%	79.7%	95.8%	96.4%	95.0%	96.1%	94.8%	95.2%	95.0%	95.0%	93.2%	93.9%	19.1%	
ERCC-00044	98.0%	98.6%	66.7%	98.9%	87.4%	98.8%	99.5%	98.7%	98.8%	98.0%	97.7%	98.0%	97.4%	97.9%	97.7%	97.0%	96.7%	65.9%	
ERCC-00048	97.7%	98.1%	63.4%	98.8%	59.0%	99.2%	99.7%	98.0%	96.4%	97.2%	96.8%	96.1%	96.5%	95.9%	96.8%	93.7%	93.5%	34.5%	
ERCC-00053	97.8%	98.0%	68.0%	98.6%	57.9%	100.0%	99.7%	97.0%	95.4%	96.8%	96.0%	95.8%	95.6%	95.3%	95.5%	94.6%	94.8%	52.7%	
ERCC-00057	98.7%	99.1%	80.0%	98.8%	95.2%	98.0%	98.6%	97.0%	96.8%	95.7%	96.6%	96.4%	96.4%	95.9%	96.5%	96.1%	95.0%	38.5%	
ERCC-00058	98.6%	99.0%	74.4%	98.9%	92.4%	97.2%	96.3%	95.2%	93.7%	90.1%	91.4%	91.6%	91.1%	91.7%	91.7%	90.7%	90.4%	67.5%	
ERCC-00061	95.4%	96.4%	45.2%		88.6%	98.8%		94.3%	96.7%	93.2%	93.6%	93.9%	94.1%	93.8%	93.7%	91.2%	91.5%	55.9%	
ERCC-00062	98.4%	98.3%	50.0%		73.3%	99.5%		93.8%	89.5%	93.2%	91.8%	90.6%	91.4%	90.7%	91.8%	85.8%	87.4%	63.0%	
ERCC-00069	96.9%	97.3%	45.1%		73.1%	98.0%		95.5%	94.9%	95.2%	94.7%	95.0%	95.0%	95.2%	95.5%	94.2%	94.1%	60.2%	
ERCC-00078	96.9%	98.2%	50.0%		78.3%	97.8%		97.2%	97.1%	96.3%	96.1%	96.2%	96.5%	96.6%	96.9%	95.3%	94.7%	51.8%	
ERCC-00085	98.9%	99.2%	73.3%		73.6%	98.8%		97.9%	95.7%	96.7%	96.2%	96.3%	96.7%	96.3%	96.1%	93.9%	93.7%	38.9%	
ERCC-00096	98.9%	99.1%	50.0%		92.9%	98.4%		96.9%	96.2%	94.7%	95.1%	95.0%	94.4%	94.5%	95.7%	93.7%	93.7%	63.5%	
ERCC-00098	97.7%	97.7%	91.5%		87.5%	98.8%		98.0%	97.9%	96.2%	96.7%	96.8%	97.2%	97.1%	97.3%	97.2%	97.3%	66.5%	
ERCC-00108	98.4%	98.9%	46.7%		83.0%	97.7%		94.9%	94.7%	94.2%	95.2%	94.1%	94.3%	94.9%	94.8%	92.8%	92.4%	19.3%	
ERCC-00111	98.4%	98.1%	35.9%		70.0%	93.4%		92.9%	87.6%	92.5%	93.5%	92.3%	91.7%	91.7%	91.7%	83.1%	81.7%	14.5%	
ERCC-00112	96.2%	97.5%	44.4%		91.2%	97.1%		97.1%	94.9%	94.7%	94.9%	95.4%	95.5%	95.4%	95.7%	93.4%	93.7%	67.1%	
ERCC-00117	98.3%	98.4%	55.6%		97.7%	98.5%		98.8%	98.4%	97.4%	98.0%	97.9%	98.0%	98.2%	98.1%	97.7%	97.7%	59.6%	
ERCC-00126	98.6%	99.0%	73.7%		15.1%	95.6%		96.7%	94.4%	91.3%	91.9%	91.5%	91.2%	92.4%	92.5%	87.2%	87.8%	53.1%	
ERCC-00130	98.1%	99.0%	64.6%		91.2%	99.2%		96.9%	96.4%	96.0%	95.9%	96.1%	96.0%	95.7%	96.4%	95.2%	95.4%	65.2%	
ERCC-00136	98.6%	98.4%	68.4%		63.3%	98.5%		98.0%	97.6%	98.0%	97.8%	97.8%	98.1%	97.8%	98.1%	97.1%	97.1%	16.7%	
ERCC-00145	97.5%	97.0%	43.2%		68.9%	98.4%		95.8%	95.2%	94.4%	94.6%	94.1%	94.5%	95.0%	94.6%	92.1%	92.5%	47.9%	
ERCC-00157	97.5%	98.6%	77.3%		90.8%	97.2%		97.3%	94.6%	96.5%	96.0%	96.3%	95.8%	96.2%	96.5%	94.4%	92.9%	55.4%	
Average	97.7%	97.8%	59.8%	96.8%	75.8%	97.9%	96.2%	96.6%	95.6%	95.2%	95.5%	95.2%	95.2%	95.4%	95.5%	93.3%	93.2%	51.0%	
Median	97.9%	98.3%	62.6%	98.7%	77.9%	98.6%	98.4%	97.0%	96.4%	95.7%	96.0%	95.9%	95.8%	95.8%	96.0%	94.3%	94.0%	55.2%	

Table S4

Lab Method		CAGE	CAGE	CAGE	CAGE	Oligo Capping	Rampage	Rampage	STRT	STRT	STRT	STRT	STRT	STRT	STRT	STRT	STRT	STRT	NanoCAGE-XL	
Replicate		Main-1	Main-4	Main-6	Repeat	Main	Main	Repeat	Main	Repeat	Repeat-10ng	Repeat-100ng	RepeatA-1µg	RepeatB-1µg	RepeatA-5µg	RepeatB-5µg	RepeatA-10µg	RepeatB-10µg	Main	
Capped?	In 32?	Yes	Yes	No	Yes	Yes	Yes	Yes	No	No	No	No	No	No	No	No	No	No	No	Yes
ERCC-00002	Y	1.3%	1.2%	1.6%		0.5%	2.0%		0.7%	0.7%	0.1%	0.2%	0.3%	0.4%	0.3%	0.1%	0.7%	0.8%	3.4%	
ERCC-00003	Y	1.4%	1.4%	5.0%		1.9%	1.3%		2.4%	2.2%	1.8%	2.0%	1.8%	1.9%	1.9%	1.9%	1.7%	1.6%	2.9%	
ERCC-00012	Y	2.8%	2.5%	0.0%		3.0%	2.4%		1.7%	1.9%	1.6%	1.7%	1.7%	1.8%	1.7%	1.8%	1.7%	1.6%	1.9%	
ERCC-00017	Y	0.7%	0.9%	0.7%		1.3%	1.6%		3.9%	4.7%	3.2%	3.1%	3.5%	3.5%	3.6%	3.6%	4.8%	5.0%	0.4%	
ERCC-00028	Y	1.4%	1.2%	0.6%		0.4%	0.1%		3.2%	4.3%	2.9%	2.9%	3.5%	3.4%	3.5%	3.4%	4.4%	4.5%	0.8%	
ERCC-00031	Y	1.1%	0.9%	4.5%		3.6%	1.0%		2.2%	2.3%	1.8%	1.8%	2.0%	1.9%	2.1%	2.0%	2.6%	2.9%	1.4%	
ERCC-00034	Y	0.9%	0.9%	0.2%		3.2%	0.4%		0.4%	0.8%	0.2%	0.1%	0.3%	0.3%	0.4%	0.3%	0.8%	0.8%	3.6%	
ERCC-00035	Y	1.5%	1.7%	1.3%		1.9%	2.3%		0.3%	0.4%	0.1%	0.1%	0.3%	0.2%	0.1%	0.1%	0.3%	0.4%	0.2%	
ERCC-00041	Y	1.3%	1.3%	2.1%	1.0%	2.3%	0.1%	2.3%	1.9%	1.7%	1.7%	1.9%	2.0%	2.0%	1.9%	2.0%	1.8%	1.5%	1.3%	
ERCC-00042	Y	0.7%	0.7%	2.0%	0.9%	1.9%	2.0%	6.6%	1.0%	1.2%	1.0%	1.0%	1.2%	1.1%	1.1%	1.1%	1.4%	1.4%	2.0%	
ERCC-00043	Y	2.0%	2.1%	0.1%	0.5%	2.4%	2.7%	7.3%	0.6%	0.2%	0.5%	0.4%	0.6%	0.5%	0.4%	0.4%	0.3%	0.3%	9.9%	
ERCC-00044	Y	1.2%	1.4%	1.3%	1.5%	3.4%	1.1%	0.3%	0.4%	0.4%	0.3%	0.4%	0.2%	0.2%	0.3%	0.2%	0.3%	0.4%	2.9%	
ERCC-00048	Y	1.8%	1.6%	0.4%	2.6%	3.7%	1.9%	2.7%	0.5%	1.2%	0.5%	0.5%	0.7%	0.7%	0.8%	0.7%	1.3%	1.4%	2.7%	
ERCC-00053	Y	0.6%	0.7%	1.9%	5.8%	2.3%	0.7%	24.4%	0.6%	0.4%	0.8%	0.7%	0.8%	0.7%	0.7%	0.8%	0.6%	0.6%	0.4%	
ERCC-00057	Y	3.0%	3.1%	1.1%	7.3%	0.4%	3.8%	7.4%	0.0%	0.0%	0.6%	0.8%	0.6%	0.6%	0.5%	0.5%	0.4%	0.4%	4.3%	
ERCC-00058	Y	0.5%	0.3%	0.2%	0.8%	2.9%	2.4%	8.4%	0.4%	0.3%	0.1%	0.0%	0.2%	0.1%	0.2%	0.1%	0.5%	0.6%	0.4%	
ERCC-00061	Y	1.1%	1.1%	0.4%		2.3%	0.4%		0.9%	1.1%	0.7%	0.5%	0.7%	0.7%	0.7%	0.8%	1.0%	1.0%	0.7%	
ERCC-00062	Y	1.2%	0.9%	0.9%		1.2%	8.7%		2.3%	2.4%	2.4%	2.4%	2.4%	2.4%	2.4%	2.4%	2.5%	2.4%	6.1%	
ERCC-00069	Y	0.9%	1.0%	1.6%		1.1%	1.5%		0.1%	0.4%	1.4%	0.4%	0.4%	0.4%	0.4%	0.4%	0.5%	0.4%	0.7%	
ERCC-00078	Y	0.0%	0.0%	4.6%		0.2%	0.8%		4.2%	4.1%	4.2%	4.1%	4.1%	4.2%	4.1%	4.1%	4.1%	4.2%	2.7%	
ERCC-00085	Y	0.1%	0.2%	1.1%		0.3%	0.6%		0.1%	0.4%	0.4%	0.3%	0.0%	0.1%	0.0%	0.0%	0.6%	0.6%	2.3%	
ERCC-00096	Y	0.1%	0.2%	1.0%		2.5%	0.2%		0.5%	0.4%	0.6%	0.6%	0.6%	0.5%	0.6%	0.7%	0.4%	0.5%	0.1%	
ERCC-00098	Y	0.2%	0.4%	0.6%		0.9%	3.0%		2.3%	3.5%	1.3%	1.4%	2.1%	2.0%	2.2%	2.0%	4.0%	3.9%	3.0%	
ERCC-00108	Y	1.1%	1.1%	2.3%		1.0%	1.9%		1.6%	2.0%	1.3%	1.2%	1.6%	1.5%	1.5%	1.5%	1.9%	1.9%	2.0%	
ERCC-00111	Y	0.0%	0.0%	1.5%		1.7%	1.4%		2.8%	3.3%	2.4%	2.3%	2.6%	2.6%	2.8%	2.7%	3.4%	3.4%	1.4%	
ERCC-00112	Y	0.6%	0.4%	2.8%		0.6%	1.0%		1.2%	1.6%	2.0%	2.0%	2.1%	2.0%	2.1%	2.0%	2.4%	2.3%	0.5%	
ERCC-00117	Y	1.6%	1.8%	0.6%		24.5%	3.1%		1.6%	1.7%	1.2%	1.4%	1.7%	1.9%	1.7%	1.5%	2.4%	2.2%	0.4%	
ERCC-00126	Y	0.5%	0.8%	3.7%		2.2%	2.3%		2.3%	3.1%	2.5%	2.3%	2.5%	2.6%	2.5%	2.6%	3.6%	3.7%	1.7%	
ERCC-00130	Y	4.4%	4.2%	5.1%		3.1%	7.4%		0.9%	1.2%	0.8%	0.5%	0.9%	0.8%	1.0%	0.9%	1.4%	1.6%	0.4%	
ERCC-00136	Y	1.0%	1.2%	2.7%		1.7%	2.5%		0.5%	0.2%	1.1%	0.8%	0.8%	0.7%	0.8%	0.9%	0.6%	0.7%	1.1%	
ERCC-00145	Y	0.6%	0.8%	0.6%		0.2%	0.2%		1.6%	1.8%	1.7%	1.7%	1.9%	1.8%	1.8%	1.8%	2.0%	2.0%	0.8%	
ERCC-00157	Y	1.1%	1.1%	1.6%		0.7%	2.1%		0.6%	0.9%	0.1%	0.0%	0.2%	0.1%	0.3%	0.3%	0.8%	0.8%	1.9%	
	Average	1.1%	1.1%	1.7%	2.6%	2.5%	2.0%	7.4%	1.4%	1.6%	1.3%	1.2%	1.4%	1.4%	1.4%	1.4%	1.7%	1.7%	2.0%	
	Median	1.1%	1.0%	1.3%	1.3%	1.9%	1.7%	7.0%	1.0%	1.2%	1.1%	0.9%	1.0%	1.0%	1.0%	1.0%	1.4%	1.5%	1.6%	

Table S5

Method	Total Intergenic Peaks	Overlap DNase-Seq	Percent of total	Overlap H3K27ac	Percent of total	Overlap both	Percent of total	Overlap eRNA DENdb	Percent of total	Overlap eRNA ENCODE	Percent of total
GRO-cap	5,890	4,898	83%	5,584	95%	4,676	79%	5,619	95%	5,378	91%
RAMPAGE	654	468	72%	577	88%	439	67%	602	92%	508	78%
CAGE	633	503	79%	586	93%	478	76%	595	94%	527	83%
Oligo capping	503	245	49%	329	65%	236	47%	355	71%	280	56%
STRT	138	113	82%	131	95%	112	81%	133	96%	117	85%
NanoCAGE-XL	23	18	78%	21	91%	16	70%	23	100%	17	74%

Table S6

Method	Total Peaks	Overlap DNase- Seq	Percent of total	Overlap H3K27ac	Percent of total	Overlap both	Percent of total	Overlap eRNA DENdb	Percent of total	Overlap eRNA ENCODE	Percent of total
GRO-cap	10,763	8,486	79%	8,616	80%	6,839	64%	10,411	97%	7,317	68%
CAGE	252	221	88%	237	94%	213	85%	242	96%	213	85%
Oligo capping	170	110	65%	127	75%	104	61%	136	80%	110	65%
RAMPAGE	161	138	86%	152	94%	135	84%	156	97%	138	86%
STRT	50	39	78%	46	92%	38	76%	49	98%	38	76%
NanoCAGE-XL	16	14	88%	16	100%	13	81%	16	100%	12	75%

Table S8

Method	# of Steps	Time (hours)	Cost per library (\$)	Input (μg)
CAGE	14	62	81	5
RAMPAGE	8	29	104	5
STRT	4	9	27	0.01
Oligo Capping	7	41	315	40
NanoCAGE-XL	6	11	177	7.5

Table S9

Lab method	Sequencer	Read length (bases)	Paired end?	Custom sequencing primer (5' to 3')	Index Read	PhiX added (%)
CAGE	HiSeq2500	50	yes, no	no	In-line	1%, 0.5%
RAMPAGE	MiSeq	75	yes	TACTACTAGTCGAACTGAAGGTCTCCAGCAGGG	Separate	1%
STRT (10ng)	MiSeq	75	yes	no	Separate	1%
STRT (8 samples, higher input)	NextSeq	75	yes	no	Separate	1%
Oligo Capping	HiSeq2500	50	yes	no	None	1%
NanoCAGE XL	MiSeq	75	yes	GAGATCTACTACTAGTCGAACTGAAGGTCTCCAGCA	In-line	30%
Standard RNA-Seq	HiSeq2500	101	yes	no	Separate	not known

Table S10

Method	Sample/Tissue	URL
GRO-cap	K-562	https://trace.ncbi.nlm.nih.gov/Traces/sra/?run=SRR1552480
CAGE (Rep. A)	K-562	https://trace.ncbi.nlm.nih.gov/Traces/sra/?run=SRR390536
CAGE (Rep. B)	K-562	https://trace.ncbi.nlm.nih.gov/Traces/sra/?run=SRR390537
RAMPAGE	K-562	https://trace.ncbi.nlm.nih.gov/Traces/sra/?run=SRR424591
CAGE	MCF-7	https://www.encodeproject.org/experiments/ENCSR000CJO/
Oligo capping	MCF-7	https://trace.ncbi.nlm.nih.gov/Traces/sra/?run=SRR013349 , https://trace.ncbi.nlm.nih.gov/Traces/sra/?run=SRR013351
CAGE	mouse hippocampus	http://fantom.gsc.riken.jp/5/sstar/FF:13-16E8
STRT	mouse hippocampus	https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE60361
CAGE	Adult Frontal Lobe	http://fantom.gsc.riken.jp/5/datafiles/latest/basic/human.tissue.hCAGE/frontal%2520lobe%252c%2520adult%252c%2520pool1.CNhs10647.10040-101F4.hg19.nobarcodes.bam
CAGE	Fetal Temporal Lobe	http://fantom.gsc.riken.jp/5/datafiles/latest/basic/human.tissue.hCAGE/temporal%2520lobe%252c%2520fetal%252c%2520donor1%252c%2520tech_rep2.CNhs12996.10063-101H9.hg19.nobarcodes.bam
CAGE	Adult Temporal Lobe	http://fantom.gsc.riken.jp/5/datafiles/latest/basic/human.tissue.hCAGE/temporal%2520lobe%252c%2520adult%252c%2520pool1.CNhs10637.10031-101E4.hg19.nobarcodes.bam
CAGE	Adult Parietal Lobe	http://fantom.gsc.riken.jp/5/datafiles/latest/basic/human.tissue.hCAGE/parietal%2520lobe%252c%2520adult%252c%2520pool1.CNhs10641.10034-101E7.hg19.nobarcodes.bam
CAGE	Fetal Parietal Lobe	http://fantom.gsc.riken.jp/5/datafiles/latest/basic/human.tissue.hCAGE/parietal%2520lobe%252c%2520fetal%252c%2520donor1.CNhs11782.10072-101I9.hg19.nobarcodes.bam
CAGE	Adult Occipital Lobe	http://fantom.gsc.riken.jp/5/datafiles/latest/basic/human.tissue.hCAGE/occipital%2520lobe%252c%2520adult%252c%2520donor1.CNhs11787.10076-102A4.hg19.nobarcodes.bam
CAGE	Fetal Occipital Lobe	http://fantom.gsc.riken.jp/5/datafiles/latest/basic/human.tissue.hCAGE/occipital%2520lobe%252c%2520fetal%252c%2520donor1.CNhs11784.10073-102A1.hg19.nobarcodes.bam
CAGE	iPS	http://fantom.gsc.riken.jp/5/datafiles/latest/basic/human.timecourse.hCAGE/iPS%2520differentiation%2520to%2520neuron%252c%2520control%2520donor%2520C11-CRL2429%252c%2520day18%252c%2520rep2.CNhs13825.13428-144D8.hg19.nobarcodes.bam , http://fantom.gsc.riken.jp/5/datafiles/latest/basic/human.timecourse.hCAGE/iPS%2520differentiation%2520to%2520neuron%252c%2520control%2520donor%2520C11-CRL2429%252c%2520day18%252c%2520rep1.CNhs13916.13424-144D4.hg19.nobarcodes.bam

Table S11

<p>ERCC-00012</p>	<p>GGGAATTCGAGAGATGTTTGTAGGTGCGGAATGTGTGCGGTCTACCTTAGCTGTAGTGTGCGATGAACCTACACACAACGTG GTATAGTGGCCGATCTTAGAGTGATCCTATCACTCCTTACGCACCAGAAGGGATCTGCATACCAGGCGGAGAAGCTTGAAGGC GGCTAGATCACTGAATTGCGGGAATCGGCATTTTCGCATTCTTAGGATCTAAACCTTAGACCTCCGCGTGCATTGCACCTGCT TGGTACAGAGTTACAAGCCCCCGCACTTTCTTTGCGGTCTTAAAGAGGGAAATCGCCCAATTAGCAGAGTGTGAGGTGTTAC GCGCGATTGAGCCGTGAGAAGAATCGATAGAGCCGCGTCGGGACCTTGATGGTATCTCTGCCTCAGCTAACCTGCTAGGTCCG TCCCCTGGGGATGATCAGGACTGCGGATAGTAAATTGCGGGTTTGAAGCCGGACTTGCCGCTAGGCAAAGCACAAAAACATC GGACATGTAGAAGTCTCATCGAACTCCTTTCCGTTTCATGCAGATACTTCAACTGTGACTAGTGGGGTTCGGGAGCACCCGCA CTACTTCATTCTTGGCGGTGGGCCACTTTATGTGACTGTACATGGGACTTCTACTCATACCAATGTAAAGTATAGTTAACGCC CTGTCCACTCTACTCAGGCGTAATCATCGCGGAAGGCTATCCACAGCCATCAGCGGTCTACATGTCCCAGCAGATTACCTG TCCCTGCGGGTCCGCGTCACAGCCTATTCTGAGGCTCTAAAGACTATGCGAACCCAGGTGTCCCAGTCGATCAGACGACGAAGTC GGGAAGGAAGCATGGATACAAAAAGGCTTTATATACTGGGTTATCCTAGGGGATGTTTTTACCGGACTGGTCAGCCTCGGTG CGCTCGGCCTAGGCGTTACTGCATGGGGGCTGTGGGCAATTTGGTATTTCTCAGGACTATGGACAAAAAAAAAAAAAAAAAAAA AAAAAA</p>
<p>ERCC-00013</p>	<p>GGGAATTCACCGAGCTCAGATGTGAAGGATCTTCTTGGAGGATTAATAAATGATTATCTGTAAAACCCACGTGAACCTTGGT ATCATGCGGGAAGCAGGGCGAATCGTGGCTTAACTCATGAAGAGTTAAAAAGCACATTAACCAGGAATCTCGACAAAAGA ATTGGATCAAATTGCCGAACGTTTTATTAAGAAGCAGGGTGCAATCCCATCTTTTAGGGGGTATAATGGGTTTCGCGGGAGCA TTTGCATCAGTTAATGAAGAACTCGTTTACGGCATACTGGCAGCAGGGTGCTGAAGGACGGTGACATCATCAGTATTGAT ATCGGTGCTAAATTAATGGTTATCATGGTGACTCTGCATGGACATATCCGGTAGGAAACATCAGCGATGATGACAAAAAAT TCTGGAAGTGACAGAGGAGTCTTTATATAAAGGCTTGCAGGAAGCAAACCAGGTGAACGTTTGTGCAATATTTCCACGCAA TACAAACGTATGTCGAAAATGAGCAGTTTTTCACTTGTAGGGAGTATGTCGGACATGGTGTGGTCAAGACTTGCATGAGGAC CCGCAAATTCCTCATTACGGTCCGCCAACAAAGGACCACGGCTTAAACCTGGCATGGTCTCGCTATTGAACCTATGGTGAA CGCTGGCAGCCGCTACGTGAAAACATTGGCTGATAACTGGACGGTTGTAACGGTAGATGGGAAAAAGTGTGCTCATTGTAAC ATACGATTGCGATTACGGAAACGGTTTTTTGAATACTGACGAGAGTAAAAAAAAAAAAAAAAAAAAAAAAAAAA</p>
<p>ERCC-00014</p>	<p>GGGAATTCGAGCTCGGTACCAAAGAAGAAGGAAAGTAGAGGAGATCAAGATGTCAAACGAAACAATTAATTAGTCATTGCG GGACCGCGTGGAAGAATGGGGCAGGAAGCTGTTAAATTGGCAGAACGAACACCACATTTTGACCTTGTAGGGGCCATAGACCA TACATACGATCAGCAAAAATATCTGATGTGATGCCTGTTGAGTCAGATGCTTTTCACTTACACAGATATCCTTGCCTGTTTTA CAGAAACACAACCGGATGTCTTGATTGATTTAACAACGCCCGAAATCGGAAAAGTACATACAAAAATTGCATTAGAGCACGTA GTCCGTCCAGTTGTGCGGAACAACCGGTTTTCTCAGAAGCTGATTTAAAGAGCTCACATCTTTAACAGAAGAAAAAGGGATCGG AGCCATCATCGCGCAAATTTTGCCTCGGTGCGATACTGATGATGAAATTTTCAAAAATGGCTGCCAATATTTTGGAGGATG TTGAGATTATTGAGCTTCATCATGACCAGAAGCTTGACGCACCAAGCGGAACCTGCGCTTAAAACAGCGGAAATGATTTTCAGAA GTCCGTAAAGAAAAGCAGCAAGGACATCCGGATGAAAAAGAAATTCTCCAGGAGCAAGAGGAGCGGAGCAAACCGGTATTTCG CTTGACAGCGTCCGTCTTCCGGGACTGATCGCGCATCAGGAGGTGATGTTCCGGCATGGATGGCCAAACGCTTCAGATACGCC ATGATTTCTATAACCGTGCTTCTTTTTCATGTCAGGCGTTAAACTGTCAGTCGAACAAGTCATGAAGATTGATCAGCTTGTGTAT GGTTTAGAAAATATCATTGATTAGACGGGGGATAAACAATGAAAATTGCTTTGATCGCGCATGACAAGAAAAAACAGGATAT GGTTCAATTTACGACTGCCTATCGGGATATTTTAAAGAAATCATGATCTATACGCAACCGGAACCACAGGGTTGAAAATTCATG AGGCGACAGGTCTTCAAATTGAACGTTTTTCAATCCGGCCCTTTAGGGGGAGACCAGCAAATCGGTGCACTGATCGCTGCCAAT GCACTCGATCTTGTCAATTTTTTTGCGCGACCCGCTGACCGCGCAGCCGCATGAACCGGATGTCTCGGCATTAATCCGTTTTATG TGATGTGATTCCATTCCGCTCGCCACAAAATATGGGTACTGCGGAAATTTCTGTGCGCACACTTGTGATGAAGGTGTTTTCGAAT TCCGTGACCTTCTTCCGGGAGAAAGAGCCGAATGTATAATGCTGACGTTCTTGTCTTTTGGCGCCACAGTGATGATGTCGAGAT CGGAATGGGCGGCACAATAGCGAAGTTTTGTCAAACAGGAAAAAAAGTAATGATATGCGATTTGACAGAAGCGGAACCTCTCTT CTAACGGTACGGTCAGTTTTCGTAAAGAAGAAGCAGCTGAAGCAGCCCGCATATTAGGCGCAGATAAAAGAATTCAGCTAACG CTTCCAGACCGCGGCCTAATAATGAGTGATCAGGCAATTCGGTCAATGTCACTGTGATCAGAAATCTGTCGGCCAAAAGCGGT TTTTATGCCGTATAAAAAGGATCGCCATCCGGATCACGGCAATGCGGCTGCACTGGTGAAGAAGCGATCTTTTCCGCCGGAA TCCATAAATATAAAGACGAAAAAGCCTTCCGGCGCATAAAGTCAGCAAGGTTTACTATTATATGATAAATGGTTTTTCATCAG CCGGATTTTGTATTGATATCTCGGATACAAATAGAGGCAAAGAAACAAAGCCTCAACGCCTACAAAAGCCAGTTTATCCCGTC AAAGGATTCGGTTTCTACTCCTCTGACGAATGGGTATATTGAAATCGTTGAAGCGAGAGAAAAGCTTTACGGTAAAGAAGCGG GCGTGGAGTATGCCGAAGGTTTTTTTTTCCAAACGGATGCTGAAGCTTGAAAAAAAAAAAAAAAAAAAAA</p>

Table S11

<p>ERCC-00016</p>	<p>GGGAATTCGAGCTCGTTGTAACGAATGTTAATTTAGGAGGCAAGAGTTTGTGGGCGGGACTTGCAGCTCGTAACGCTCTAAA AGGGTTATGCCGCTGAGGCGGGACCATAGTCAGGAAGTTTGTCCGATCCGCTCCAGTTGTCAAGAGTAGAGGATTCGTGTTC GCCGATACTGCCGAAAACGTCATACCGAAGCAATTCTGTGTCACCTCTGTATGTCCGTGCCCCACCTTCGAGTATGAGTTTTA AAGTTCGTGCAGAGACATAGCTCGCGCACTCCCTGTGTGATGCCGGTCGGCCGACACATGCTTCAATGTGCCTTGAACCTGCA TTCGAAAGAATGTCCTTATCTTGATCGGCCATTGTAATGCAACGCTCTCCTTTTCATTGACACGAGTTTCGTAGATGGCTGTTA CTCGCGGACGTTAAATAAAACTATCAGCGTCAGCGGATTAGGAGGCTTACGGGGGAACCTACAATTGTTTCGCCGCATGGTCCG AAGGCGCCATGTCCCTCAGCGGAGCGACAACAATTACTACTGGAGCTATTGTAAATACGCAGCAACAAGCGTCCAGACATTTG CCGCTGACCTCCAGTCGCATGGACGGGGGAGAACAGCTGGAGCAATGCATCATTTCGTGAGGGACATCCAATCACGGAATCAA GGAAGAATTACCAATTTTACCTGTAACGAAAACCAATTTATTACTGACGCAGAGTGAATCACATCTATAGCGGTTACGACCCCTC CAGAGTGATCCGACGGCGATGTGTCTTTGACCCCGTGTGACTGGTGTTCCTGTGCTATCCGCAACATGTTTACTCATCACTA CGTTAAAAAAAAAAAAAAAAAAAAAAAAA</p>
<p>ERCC-00017</p>	<p>GGGAATTCGAGAACTGAAAGTGAGTCCCAACGAGAGAGGTGCATCTGTCCAGTGAGAGCTGACTGTCTGCGACAACACTAGTC GGTCCAGGCATGGATTTTCGCGACCTCACAACTTAAGGAGGCGGTAATCAGATGACAGCGCGACCCGTGAATGGGTGACCTGC TAGTGGAGGTGGCGCGGTGTCCCAGATACAAGGATCTCGATGTAGTACCCTCACATAACTTTGTCCCTGAAATAACATTCGA TCACTCTAATGAATCCCTTAAGCCAGGAGCGTTAGTGTCAAACGCAACGCCCGGGTTCATGATCCTGGATGGCTGGTCAAC CAGGGAGATGTCACCTAATAGGTGCCAAATGTACCGCAGAACCTCGTAGGCGTTCCGCCAATTGGACCCGAGGTATAATGTA GACGGGCACGCTGACTGGGCAAAAGATTACAATCCAGTTACCATAACAGTGCAGCGGTCAGGATCGGGGCATGAAGGCAATAT GTTGGCGCATCCAGTCTTTCCGTAGAAACAGTGGCTAACGACGGAGATACTGCCGGGCAAGAAACCTTGACCAAGTATGCGC GCCTTGTGAGTCTCCATGGACTTGCTGCACCTACAAATCCGGAAGGGCGCTTATAGTGTCTGCTAGCACTCCCTGGAATATCT TAATCCCGCCAGCTCATGGACGGGAGGAATGTGTTAGACCATAAACAGAGGGCTGGCCAACAATCAGAGGGAAGTAAGCCCC GCAAAAGGATTCTGCGGGAACCGAATTACACAACGTAAGGACGTACCTGCTCCTACCCCGAACCCTGTCAATACGATAATG CGCCCAAAACGAGGGATCGAGACGGTTCGGAGTGGCAGTCCAGCTTAAACAGGTGCTCGCCGAAACTAGCTGGCCAGGGTGAGG CATGGATTCAAAGCCAATGACCGAAGAAAGTTCCGACATACAATTACTCGGCTTTTGGCAATACCCAGGCGAGAGGTAAGCCC AAGCCATACCGGAATGACCTGAGATCCACTTAGTAAGTCTTACGAGATGATCCCGACCCAGGACTGGAGCTAGGCGGTTGCG CAAGTAACTTCATCATGTATCGCTGGGGAATAATGTTCTGGAAAAAAAAAAAAAAAAAAAAAAAAA</p>
<p>ERCC-00019</p>	<p>GGGAATTCCTTTAATGGTTGTACATACTTGACGGATTGCAGTGAGTGTATTCCTCCGTCCTATCGTATGGGTAACCCATAGGGGC GTGTCATTCAGCACTTCGGATAGTGTGTTGACCGCGTTCCTCCATGTGCGCTTTCAGGAGAAATAGTACAGGCTGCTGGCTCA TGTTTCCTTCTACGCTGCACCTTGCGGGCATAGAGGTTCGGTTCGATCTATATTCGGAGATAACTATTCACCCAGCGCCACTCG AATATCCCCTCTTCTGAGCAAGAGGCCAATAAATGCTCAAAAACGAGCGATTGTCCAACGACATAAAGGGAGACTGTAAGGTC CTAGCGCTCTGTCTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGT ATCTTCGACCTTGGTGTAGATGGGGCTAGGTCAAAAAGCGGTAGCGATTAGCACTTGTATACACTCTCCCCCTACTAAGTATG TAAGGCCTGACCGGAGATTTGTCCATGCTCACCAGGACCGATAGTTGGGCCCGGTAATCTTGCCGCGGTAGGGAGTACGAGC AGTGCACCGTTGAAACAAGCACAGGAGGTATGAAGCATCAGACCTGAAAAAAAAAAAAAAAAAAAAAAAAA</p>
<p>ERCC-00022</p>	<p>GGGAATTCCTCCGGGCAATTGCCTCTATAACTAGAGCTGAGCCCACCATTAAGCGATTTTTTTCGCACTTAGCCGTAATAAAT ATAATGATCCCGCGGTGTAGTAATTCTACGGAATGCACGGAATGTCATAAGCAGAAGGACGTGATGTGCAACCTACTCCCCTT TCCCAAGTAAATGTACGGGAATTATCGTTTTCGTTACCGACAACCATGGGGCCACGTGGCCAGTTTGCCCCTATTAGGTGGATA GGCCTGAGTACAGAATATATAAAGCGTGACGGATGAAAACGCACCCATTGTCACCGATTGTGACTAGTTGACCCATACACCC TACTGTGTTTCAGACGTCGTTCTACTAAAGGCCCGTGCCGCCGGAAGCTCATTTAAAAAGAAGTTCGTAAGTAAGCCGGCGACA TATCTAGCAAAACATAGTCCCCCTTCTGCTCAGAGGTTATCCATAAGTACTTACCAGATGGAGTGCCAAGGTACAGACCTCC CTCCCAACTGGTTCTGCAGGACGTTGCTATATCACTTCTGGCCGTCTTATGGGTTACCCCTCGCGAGTGCCATCGCATCGA CTGACACACCTGCATTCTATTTTATGCTCTACTGACGGCGACGAGTTTTTTGTAGCGTCGATCGCGGAGTTAAGGTCATTGGG GAATAGAACCATAGCGCTTGGGTTTGTGACTTTCTCCCTAGATACGCGTTTGTGACTGCGCTACATGGATAAAAAAAAAAAAA AAAAAAAAAAAAA</p>

Table S11

<p>ERCC-00024</p>	<p>GGGAATTCACGGAGGAGCTTTGGCATACTAGGCTAGCGAATCTGCAACTAACGCAAGTTACATCCTAGCTAGCGAAGGGCGTC CCAATTTTCGCTAACCCGACGCGACGCATAAAAAGCGAGAATAACGCCAAGGGATGTACAATGGATGTTGATTATGCCTTCG GGAATGAGGGATGATTTGCGAAAAACAAGTCAATACCTAACCAAATCCGCTAATGGACACCCGTAATCGTGCCCAAGTTTAAAC TGGTCGGTAGGTGGCAGGCCAAAGCGCTAGTATCCCTAGGCGCGACACTATAAGTTTACAACCTGCGAGAATTGACACTATGAGC GCGCATACTGGGGCCAGAATAGGCAATACCATGTGCGTCCCTGTGTGAACAGCTCGCGGCCATCAGAAGTTGGGATTGACGCA TGATCTTGATCGAGCATAACGGCTTCCACCAACCCATAGTACTTGGTAACTATAGCAATCAAGCACGCGTGAGCACAACGCTAT CCAAATTTACTACATTAACCTGGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA</p>
<p>ERCC-00025</p>	<p>GGGAATTCGGGGTCCATTATAGTGCAGGCGTGGTAAAGTAGCATTAGAACCCTACTACTTAGCCCGCGCAACTCGTCCTATTA AAAGTCGGAAGGATTAGGGAAGTTAACCTCCGTTAGGGCCTCATTGGCGCGCCTCCACGTATCTGTATTCCCGTGTCGCCGACT GGCTAATAAGAGATATGGTGCAGCGTGAACGCGGACCGAACCTCCGGTGTGCGCCGGTTCATGTTACTCGAAAAATAGACCCTA CTTGCGCCATGTCATCTTTCACTACGGGGTAGTCTCTCGGCCAGGCTTTGAATCGCCTCATCCGCTTCTCAATGGTTCTGTCC TGACCTCTGGAGTTAATCTTCGTCTCATAGAGTAACCAGGCGACGCACCACGCCTAGTTGGTACCACCACTAGAAGCCCGGT CGCTGGCTCAGTGCTAATATTCTGGAGGTGAGCCGACAGGTCACATGAGCCTACTCGTCTCGTCAAACACCCGCCAGCCATG ATTAACAAATACAGTGATTAAGTGTGTTTTGACCCTAGTGTAGGTGCGTGGTACTTAGCAAGGGGAGTTGCATATGTGGTCT CTGTTTCGGGTTATATCTATCATTTACTTGGACACCCTATTGGTTTTATCACAGTCCCTCCACACGACCATACGCGTTGTAAGAA TACCCCTAGCGTTGGAGAGAATAAGTTGATGTTCAATTCACAAAACCGAGCAAAGGCTTGTGCGACAGCTTCTACTAGTATT CACTACAAAACGCGTACCGACTTTAGGGCGGTAGAGAGAATTGCCATTGCCACGAGGTTCTCCAGAATACAGGGTCCAGGCG GCCCCAGCATCGGAGTGCCTGAACTGGCGGGGATGCCCAAGATTGTAGAGGGCCTAACGAGTTGATACGCCCGGGACTACG GGGCATTGTCTGCCGCGTCTGTTTCAGGTAAACGATCAACCGGAGACCAGGTTATTCCCATGTCCGTCCCAGGCTTATACTG CGGAGATAGGCTGATGATGGTAGGTGCCTTGTCTAGCAAAAACGCGCACAGCTTATGAGCATAAGCGGCTGGGCGTAGGTGAG AGAGGGTATGTAAGATCTCTCCTCTATCGGTGTGCGTCTACTCTGCCCCCTTCGACACAAATGTACATCGCGGGAAACGGATA CGCCTTACGCCCCAAGGTTTAGCGTATCAAAAAATGCAACGATTCCGATGTCGAACCTTGGATAGGAGCGACCGATTACGTGT TAATTGGCCCTGTACCTTTCTGGTCCGTTGATTATCACTCATCCCCAGGTTGTTATGGTCTACCGTGGAAAGCCTCGTCAATGA ATACTTTGAGCGGATTGAAGTGTCCGCTACATCGCGGCTATCATTAATAAATTTCCCTTTAACAAAGGTTGTGGACGTCAAC GGCCCTGCAGTAGCGTTCCCTTGGACCCGGTTCGAGTACCCAGAGCAGACTACGTATATATCCAAGTGGTTATGTCCGACGGCA TTTTGCCAGGTTAGTATCTTCGGCAATGAGTTGCGTCTACGGCTAATCGAGAGCACTTGTGAGTACGCGCAATTACTACATGG AGTGTATTCGTTTTGAGCGCTGATACAGTTCTCCTATCAAGGTCGAAAAGGTTGTCTAGAAAAGGGCCGTGCGCGCAGTCTA CTGCTACCGGCGACTTTACGACGAAGTTAGGCATCAGACGACCACATGACGGAGAATTACGTACGCCACTTCAGACGTTCTGC CTGCGTGCTCTGCAATATAGGCGTAGCAACGAAGCTCGGTGCTGAACTGCTATAGGAATAGCCTGATACGAGCGCACAAACAG AACGAACCAGCGAAACTACCCAGATAACATCGCTCCCCGGCATTACTCTGACGGGGGTTGTCACTAGGCTGGTGGTCTCTTC GCCTCTCATGTCAATTCCCTTTGTTGGGCTGCTTGGAAAGTACTGATACTAGAGTAGCCTAGTAATACCTAAAAAAAAAAAAAA AAAAAAAAAA</p>
<p>ERCC-00028</p>	<p>GGGAATTCGAGCTCAAGAAAGTATTCCATTCCGGCTCATGGTCCCGGCTAGACCTGCAAGATCGAAGGTTACTCAATGACACCA GTGACTGAGCGGTGAGCCCGGAAATAGCCAGAAATGTTACCATCCCCGCATGTTACACAAACGTGCGGGCTGACGGAACCCATG AGAACCTATGGTGAATAGACAGTAAACGAGCGCAAAGGCGTGTGCCAAGGGCTCCCACCGAATGTAGAAGTACTGATCTGATTT CGTGACAGGGAAACGCAATGCGAGGTTCCGCAAGTCCACCTATAATCTGTGACCGCTCGTAGAACATGGTTAGGGCCTGATTC AGTTAAATCAAGCCACCTCTGACAGAACGACGAGTCAGTGAATCGACTTCACACCTCAGAGTCCACTCACGTGCTGTAAGTC AAAACCCAGTGAACCTCTCAACCGTGTAGCGTCTCTAGAATTCAGGCGCCACTGAGGGGCATATGGATGAAGCGTGATACG AATTACCTCCAACGAATGCCAGCTGGGAGGAGGATAGGGACTATGTCTTCGTCAATGCTCCCGTCAAATGCCTTTCTAAATAC CTTTTGACCTCTCTGTGTGGAATGGGGTCTAGAACCAAGGACTAAAGCGGTGCACGAGGCCCTTTGGATATGTCTTCTTGG GAGGGCCACAGCCAAAGCCACCCATCACAGCTGGAATCTAATCTTGTGACCCAGTATTAACCGTGAGATCTACACAACCGAC AAGCGCTAGCTTCCCTCCCCGGTCAAGTAGTAATGCCGGGATGACTTTGCGTGTCTATAGCGATCGAGCCCTCGAATTCACGT CGTCAAAGTGAATGATCAGATTAAAGGGCTGTGCGGAGGGATGTGTAGGCCACTAACCCCTCTGCACGAACTATAGATAC GTCTTTCATCGGTACGCTCGAAAGCGCAGGTGGCTCCCAAATCGTGGGGAGTTAATCGAGCTGCGGATTGGTCCCACGCCTT ACGGCAGCGAACATAATCCCGCTGATGTGAAGTCGATCTACAAGGTAAACAACGGGGAATATAATTAGTTGAACCGGTGTGG AGCCTGCACTTGAACGCTGCATAAGGGACCCAACAGCCCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAA</p>

Table S11

<p>ERCC-00031</p>	<p>GGGAATTCGGGAGAAAAGCTTCTTGCCTAGTTACAGCACGAAGATTGGGACCCATCGATCAGCGCCTCCGTGCAATGGCGCCT TGGTACACTCTCTAAAATGCAGTCGGTAGCGGGGCATGTAGTTACTGCGGTGATATTAAGCTAGTGAGTAACCTTATATCGAA CTGTCTACCAAATTGATGTATCTACATTAGCCGTACGATGAGACAATGAACCGTGTCTACGCTCGGGAGCATTACCCCTATCA TGAGCCTACAAGCACCTGACTAGACCAGGAGACAACCTTGAGCGAGACACTAGCGAGAGGTGCCGATATAAGGTACATTGTTGC GGATGTCAACATCGCATTTTTTATCCCCTGGCGGGATGCAACTAACACCAGTAATGTCGTTCTCCACGACCCCTACCCGAAAA CTTACTCGTATGAGTACTTTTCGCGACGACTCGGCTGTGTAGTTTCCAAGCAGGCCCTGGCTAGACCCATTTGTACCACGCGG AGGATCATCGGAATCCATAATCGGCCACAACTAGCCGGCTGGAAACCTTGTGATATCATGAACGAGGAGTAAGAGCTGGTTA GTGAATCACCTTGAGGGCGAGGAACACAACAATTCTGCGGGTTAGCAGGAAGGTTAGGGAACCTCGCTCATAGCATATTAGTAC CGCTATCTCCTTTCTTGGCGCGACATCTCCCAAAGTTAGGCTGATTCTGCCGCCTGTGATCGCTATCCTTATTTGTGGCAGA ATATGTCGATGCAAAAAACCTTAATTCGTGCTTCATACATCATCCCCGAGAACTCCACGGCTCCACTCCCGCTTATCACGCGT GGGTGCTAAATGATACGAAGTGTGGCAGTCTATGTTAACTTGGAGCATCATATTTATTTCTGTTACGGATGAAGGCCTATAT CAATGATCATTAAAGACATTCCGTCATCGGCTACATGCAAAGAGGCTTTTCCACCCTGTTTCGGTGATTCAGGTGTCGAGCGA CCATTATCTGTGCGCTCATCACCGAACCGGCCGTGATAGAGTCTTCGCATCAGGTTACACCATGTCGACTGATAGTAACTGTG GTTTCGAGTTATGCGTGTGACACACCGTTGAGGCGCCCTATTTAAAAAATAAAAAAAAAAAAAAAAAAAAAA</p>
<p>ERCC-00033</p>	<p>GGGAATTCGAGCTCGCACGCCCTATTTAACTGGAAACCTTCCAAGATTTCGGAGAGCATATAAGTTGGGCCGAAAGCTCAGCTG TGAGCTTTGCAAACTCTGTCTTAGGAGCTAAGACAAATAGAGAAGGTGGGCCATCAGCATTAGCAGCTGCAATTATTGGAAAA ACACCATATTATGGATATCACTTAGATGAAAATAGAAAGACAACACATATCATTGAGTTAGATGGACAATTAATCTCTAACTT TAAATATGGAGAGAGTTTTTATGGAGCTTTAGGTTACTTAGTTGGGAAGATTGTTAAGAATGGCATTCATATTTTGAATC TATATAAATTAATCCAAATAACGATAATTTAAATCCTTGGGAGCTGCAATGGCTGCAAGTGGTGGTATCGCCTTATATCAC GCAAAAACTTGACAGCTGAATGCAGAGTTAAAGAAGTTGTTAATGATAAAATTGAAAAGATATCTATTGGAGTTGAGGAGAT AAAGGAAGCTTATGAAAAATTAATACAACAAATGAAGAGCCAGATTTAATTTGTATTGGTTGCCCTCACTGCAGTTTAAATGG AAATTAATAAATTTGCTGAACTTTTAAAAAATAAAAAATGAATGCTGATTTATGGGTTTGTGCTCTCTTCATATTAAGCA ATAGCAGATAGAATGGGATATACAAAGATTATTGAAAAAGCTGGTGGAAAGGTAGTTAAAGACACCTGTATGGTTGTTTCTCC AATTGAGGATTTAGGTTGTAAGAGTTGCAACAACTCTGAAAAGCTGCTGTTTATCTACCAAGCTTTTGTAAAGAGTGAAG TAATTTTGGAGATATTGAGGAATTGTTAAAGGGAGATAATGCTGAATCCAATAATCTTATTTTGGCTATTATTTTGGATA GAATCATTGGGGAGTTGCCAGAGAGTATTCATCCAACGGTTTGGATAGGGAAGTTGATAGCTTTTTTAGAGAACATATTTAAA TCTACAAATTGCAAAAAATAATATAGAGATTTTTTGTGGCTCACTAGCAACGTTTATTACTCTATTAGTTGTGGGAGTTAT AGCTTTTTTTGTTGATAAATGCATAATGCTGTTACCATCTCCTTTAACTATATTATCTATGGTTTTTTGTTATCAACAATA TTGGCTACAAATCATTATTCGAATTCGCAAAAAGCCGATTGAATATATAAAAAATGGTGATTTAGAGGGAGCAAGGAAAGCT GTTTCAGCATATAGTTAGCAGAGATGCCTCAAAGTTGGATAAAGAGCATGTATTATCGGCTGCAGTAGAGAGCTTATCCGAGAA CATAACAGACAGTATAAATTGGAGCTTTATTCTATGCTATATTTTTTGGTTTGCCTGGAGCCTTTGTTTATAGGGCGATAAATA CATTAGATGCAATGATTGGTTATAAAAATGAGAAATATCTATGGTATGGGAAGTTAGCAGCAAGGTTGGATGATATTGCCAAT TTTATTCCTTCAAGAATAGCAGGGATTTTGCTAATAATTACTGCCCCATTTTATAAAGGAGATGTTAAAAGGCAATATATGG GTTTTTAAAAGAAGCTAATAAGGTTCCATCACCAAACCTCTGGTTATACAATGGCTACATTGGCAAAATGCATTAATAACTT TGGAGAAGATAGGATATTATAAATTTGGTAGTGGGAAAAATAGATGTTGAAAAATCTTTAAACGCTTTTAAAGGAGTTGATTAT ACAGTCGTTGTGTTTTTAATTTATTTATACCTTAATTTGGTGGATAACATGATAAGTAAAGCTTATTACACTACAGAGATTCCA GAGGATAGATTTGAAGCTCTGAGTTGTATTAAAGATAGTCAAAAACCTCTTAAATTTATATTACTTGGAGGAGTTGATAGTGG TAAAAACAACATTAGCTACTTTTTTGGCAAAATGAGCTTTTAACTTAGGATTTAAAGTTGCTATAGTCGATAGTGATGTAGGGC AGAAGAGCATTTTACCTCCAGCAAAAAAAAAAAAAAAAAAAAAA</p>

Table S11

<p>ERCC-00034</p>	<p>GGGAATTCGGTATTACCCAGCACTCGTATGGCGCCCCATCGTTGTATCAGCAGGAGCATATGTTGCTCTTGATTGTATCACTT CGCGAGAAAGACCCCTTGAATACACGAGCTGCCGTCCGGATAACGATGTAATAGCCTATGGAGGGGAAGTAGTCATGTCTGCG GACTATTGGTAAGAGCACCCGCTCGTCTGACGTGGACACGAAGCTGTTCCGGCCGACGCAAGTACCTCCCACTTAGAAAGCGA ATAACCCAACGACCGTGTTC AACCCCTGGCCGTCTCTCAACCAGGTATGCAATCAACGACATTGGCCCAGATGTAGGGCCGTCT TGGTGGATTGAAACTCGGATCGATCACGTATGGTCTAGACCTTATACAACACCTGTGCGTGCCTCTGCGTCTGGCGATGGTGG GTAGCGGTCCGGACCACGATCGTACTGTAGGCGGCCAAATGCGGATCTTTAGGTTGACCGATTGTACATCTCGCCATAGCCC TTTTCGTCACAACCTTTATAAAAAGGGTTCAGGCCACTGTGTGAATCAGATGGCAAGCCCGTATCCGTATAGAAACATACGTTT CTCTGGCCACGACCAATAATTATGCACTGTGGCTCGGAAGCGGGTCTACGGAGAACATTAGATATCGACCTAATATCCTGAT AGCTAGCTTTCCCGAGGATAGGCGAGGATGGGCGTGTAGACACAGGAGCATTGCATCACATGAATAAAGGGCTACGTACGCA GCGGCGTTAAGACAGACTTAGACTGATCACTATGAAATGATAGACACCATGTGCGCAATTTGCTCCCTCACTCATATCGTTGTA TCATAAAGTTGATCCTAATCACAACCGAGTAACGAGCCAGACTAATCCGGAACATTCGTAAGCGATAGTGGTTGGCTCCTCC CGGTCCGCGAACTGATATCATAGCTAAGTATGCTGGCCTCGGTTAACCGCGAAGGCATATACAATGGATTGCTGTCCGCGTA GCAATATAAAAAAAAAAAAAAAAAAAAAAAAAAAAA</p>
<p>ERCC-00035</p>	<p>GGGAATTCGGGAGAGGTATCGTAAAGGTGAATCCTGTGGCTGTAGGAAGCAGTTCATATGACCAACGGGCGCCCTAGGGTATA CTCCAGAATCGAATGTTACCAGAAAATAGGGGAACTGGTTCGCTCCTAGGTAAGGTTGCCTGTCCCCGCACTGTACGAAGGTCC GGTCAACGGAAGCAGGCACACGCGCTATCTGAGTCCAAATACTTGATCCGGCCGGAAAATTAGAGGTGACGGCTTCCCACTAC TGATCTCACTGACGTGCAATCATCCTGTGTCCGGAGCAATGACAGTGTCCAGTCTGTTATGGACGAGCTGGACGATTACAGA TAAGGACAGTCGCCCGGATAACCGCAAATAAATCTTGCTGCCTCCGAGGGTGTGTGAAGGATAACTGTCGCCCTTAAGTAAA GATCTACCATTCCGCCGGGCAACGCGGCTCTCTGATGCTACGACCAAAGTGGTTGACATTACGCCAGTAATGGACTAAGGTTG AATTTGAGCGGATGGGCTCAACTGCGTTCGTAACCGGTAGATACAGGGCATAACGAGCCTCCCTATTTAACGGCATCATCCCGCG TAGTGCTGGTCAACCGACTGTCTATTGAAGTCAGGTTTCGGCTACATCAGCTGGAACGTTCCCGTAGCTACTATAATCAGGCA ATCTGTCCCGAAGAGCCACACCCTGACTTGGCCGTAAGGGAGCCCTAAATCAGTTAAATACGGGGAAGGAGTCTCGCCCTCC GGGTGATCCATCTTATTTACCAAAGAACATGTCCACGCTGTGGGCTCTGAAGATGGGCGACACATGTCTACCCTGGCATAAC GCCCAGCTTGATAAGAGTGAAACGACCCATCTGACACAGGCCGGCATAGAAGACCAGCGCAATGCGAGGGCCACACATAGGAG TGTGAAAATCTACATCAACATACTTCGGCCGTGGCTGAACGAGGGAGTGCTTGTAACAATCCCGTTGTTTGGTGTGGCAGATTC CGGGAAATGAGCAAACGCTTCTCCCATGAACACACTCACAGCCATAAGTCTACCTTGCTAACATCGCCCCGAATGCAGAGCC ACCTACTGGGGTTGTCTGAGAACAACCTCCATGGGTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAA</p>
<p>ERCC-00039</p>	<p>GGGAATTCGAGCATGGCCTAACTGAATGCGCCTGCAGTATCTTTCTTAGTATATCAAGATCCGTAATATAACGGTTTGCGCGA CTACGGTTACCGTCTTTATAAGTGAACAAAACCGGCTACCAGCATGTCGTATTTCCGCCACCCATATAAACCCCACTTTCGTCTT CAAGGAATCCAAAAGTCGGACGCGGTGGCTTGTCTCTTCGTCAGAAGGTTGAAACCAGTAAAAAGACGCGATAGATAGGCC TAAGTGGCCCTCCCCTTTGCCAAAATCACGACGAAGTGACTAGTGCAGGCGTCTGATACTTACTCCTCATGTTACAGCCACGC TGCATTGGTAGGCTGTTAGAAGCCGTGACCGAACAGGGTATGATGACCTCGCCATGGGCACCCTTGTAATTCTCGGGGGCGGAT GTAGAAATCAAAGCTGTTTACTAACCATGTACTGTCTAAGAGATTGGCTGTGACCGGTCCCGGACACTGCGTCAACGCAGGT CGCTCACGATCGGCGTGCGCATTTTCGTGAATCATGTATAGTGGTTCTCGTTAGATACACATGTAAGCTGAATGGGGCCCTAC CCAACCGGTTGGGTCTATAAGGCAGATGTGCGACGCACCTATTGGTAGGCCAATCTTATGGTTTGCCTCTTGTACTGAGGGTA CCGCAGAGGTCCACTGGTTAGCTCACACTATGATCTAGGAGCAGTTGGGCGGTAACGGCAAAAAAAAAAAAAAAAAAAAAAAAA A</p>
<p>ERCC-00040</p>	<p>GGGAATTCAACTACGATCCCATGAGAACACCTGTAGATACTCAGGTCTCCGCGGACCTACGCCGCGGACGATGATAAAGTCCG AGAAACCACCGGATGCCCCAACAGACGGCCTAGCCCATCGAACTAGGGAAATGAACTATATCGTAACCAAGCCGGGTAGCTG CGGTGGTGCTAGACTAGATGTTAGCGTTCAGTTCGAGCTGTTACGTGTAACGCCATTGAGACCCTTACCCTTTACCGGTCCGGCG GATACGTCCAGCTTCGTCACCTGCGTTCGAGCCTTCTACACGATCCAAGTTACCAGCGCAGTTTAAAGGTACGTGCTTTCGACCA GAACGAGAGTTTCGACGAAGGGGGAGGAGTTGGATTCTTAGGGAATGAGGCTGAACCTAACTCCTCGCTACATTCCTATTGTT TTCCCGATCGGCTTCATCGGGACGCCGGAGACCGCACCTTTGCCCGTTTAAAGCTCGGACGGGATGCCACGGTCTGTTCCACA ACCCGGTTCGGAGCACACCCTCTCTATGCTGCGTCTATGCCTTCCGGGTGGTTGAGGTGAGCCATGTGGTCTTAGAATCCGGTT GTATTAGACAGTATTGTGCTTGACGTCGTGGTATCGGGTGGTTGTGAAGGATACAGATATTCTATGGGCAGCGATGGGGCTTC CTCAGTCCGTCTACGGCCCACCAGACAAACAACCTCGGGATACAAATTGAGCACCCGCGGACCGGAAAAAAAAAAAAAAAAAAAA AAAAA</p>

Table S11

<p>ERCC-00041</p>	<p>GGGAATTCGAGCTCGGTACCACCGAGCTCAAGATGCGTTAATTATGTGGGTGACGATAAATGAGTGAGCAAAAAGACATGTAC GTATTAGGAATTGAAACAAGCTGTGATGAGACTGCTGCAGCTATTGTGAAAAGCGGGAAAGAGATCATTTCAAACGTAGTAGC CTCTCAAATTGAAAGCCATAAAGCGCTTCGGAGGCGTTGTTCCGGAAATTGCTTCAAGACATCATGTTGAACAAATCACTTTGG TTATAGAAGAGGCGTTTTCGCAAAGCTGGCATGACGTATAGTGATATTGATGCGATTGCAGTAACAGAAGGTCCGGGACTGGTG GGAGCGCTTCTTATCGGAGTGAATGCCGCTAAAGCATTGAGCTTTGCATATAACATTCCGTTAGTAGGCGTTCATCATATAGC CGGTCATATATACGCGAACCGTCTTGTAGAAGACATCGTGTCCCGGCACTGGCATTGGTCGTTTCAGGAGGCCATACAGAAC TGGTTTATATGAAGGAACATGGATCATTTGAAGTCATTGGGGAACCCTTGATGATGCGGCAGGAGAAGCCTACGACAAAGTG GCGCGGACGATGGGATTGCCATATCCGGGTGGACCGCAAATTGACAAGCTAGCTGAAAAAGGGAATGACAATATTCGCTTCC TCGCGCATGGCTTGAAGAAGGCTCTTACAACCTCAGCTTTAGCGGATTGAAGTCTGCGGTGATCAATACGCTTCATAATGCAT CCCAAAAAGGGCAAGAGATTGCTCCGGAAGATTTGTCTGCCAGTTTCCAAAATAGTGATGATCGATGTCTTGGTAACCAAAACG GCGCGCGCGGCAAAGGAATATGATGTCAAACAGGTCCTTTTAGCCGGAGGAGTAGCTGCAAACAGAGGGCCTCAGAGCTGCATT AGAAAAGGAATTTGCCAGCATGAAGGGATTACGCTTGTCAATTCCTCCATTAGCTTTATGCACGGATAATGCTGCGATGATTG CTGCTGCTGGTACAATTGCTTTTGA AAAAGGAATTCGCGGTGCATATGATATGAATGGCCAGCCCGCCTTGAATTGACTTCT TATCAAAGTCTCACGAGATAATAGCGTGAGACTCCCGGGTACAAAAA AAAAAAAAAAAAAAAAAAAAAA</p>
<p>ERCC-00042</p>	<p>GGGAATTCACCAACTCTGGCCTTTGTGTTGCTATTCCCCAAGCACACAATCCAGTATAACATCTTCCACAAACTCTACAGCCA AGAGCAACCATTGCAGCAGTTCCAATATAGACAGCATCTGCTCCTAAAGCTATAGCCTTAAATACATCTGCTGAACATCTGAT TCCTCCACTTGCTATGATGCTAATTTGTTTCTCAAACCTTCTCTCAATCTTTGATCTACTGCGGCAATAGCCATTTCTA TTGGGATTCACCATGGTCTCTGAATACCTTTGGTGCTGCCCTGTCCCTCCTTTATATCCATCTATAACAACTGCGTCAGCA TCACTTGTGCTATTCCAACAGCAATAGCTGGAGCATTATGGACAGCTGCAATTTTAAACAAACACTGGCTTTTTCCATCTTGT TGCTTCTTTCAAACCTTCTAACTAATTGAGCTAAATCCTCAATTGAGTAAATGTCATGGTGAGGAGCTGGTGAGATAGCATCAC TTCCCTCAGGAATCATTCTTGTGCTGAAATTTCTGCTGTAACCTTCTCTCCAGGTAAGTGCCCTCCAATTCAGGCTTAGCT CCCTGCCCTATTTAATCTCTATTGCAGAACCTTTATAAGATACTCTTCATTAACTCCAATCTTCCACTTGCAACTTGGGT AATTATGTGGTCTGCATAAGGGTAGAGAGCTTTTGGCAATCCTCCTCACCAGTTCCCATGAATGTTCCACATCTTTAACTG CCTTAGCAAATGATAGGTGAGCGTTTAAAGACAAAGCTCCATAAGACATATGGGCAATCATTATTGGGGTATCTAACTTTAAG TTTGGAGCTATTTTGT TTTTAACTTAGCTTTTTTAATCTTCTTGCCATCAATCTCTTCTCAACAAATTCAAACCTAACTG CTTTGGTTTTTTTACCAATGTAAGTTCTTAATTCATTGGCTCTCTCAATGGGTGATGGATGGGTTTGTAACTTGCATGCATC TAAACAATCTAAAAA AAAAAAAAAAAAAAAAAAAAAA</p>
<p>ERCC-00043</p>	<p>GGGAATTC AATACCTTTACAAATGCTTTAACAAGAGGAAATTGTGTTTTTGCCAATTTAAGACCTAATTTAATAGTTAAACCA TTAACCTTAGTTGTTCCAAGGCATAATATAGAGAGTGAGATACAGGATGAGCTATTTAGGGAGTTATTCAGTATGCAGTTGC CAAGGCAGTTGCTGATTTAGATTTAGATGAAGATTTAAAGGTTGTTGTCTCTGTTAATGTCCAGAGGTTCCAATAACCAATT TAAATAAAAGAAAACCTTTCCAATACTTCTATGCCTCAGCAAAGTTAGCTATAAACAGAGCTTTAAATGAATATCCTTCAAAA GAGAAGGTAAAGAAAGAGAAATATAGAGCTTGCATCCATTAGTTGGATTTAGGGATGTTAGATTGGAGTATCCTCCATATCT ACAAATTGCTTTGGATGTCCCAACTATGGAGAATTTGGAATTTTTGTTACAAACAATTCCAAATAGCGACCACATCATCTTAG AGGCTGGAACACCCTAATTTAAAAGTTTGGTTTTAGAGGTTATTGAAAATAATGAGAGAATATTTTGGATGGCTTTATTGTTGCT GATTTAAAACCTTAGACACTGGAAGGGTTGAGGTAAGATTGGCATTGTAAGCAACAGCTAATGCAGTGGCAATAAGTGGAGT AGCACCAAATCAACAATAATTAAGCTATCCACGAATGTCAAAAATGTGGTTTTAATCAGCTATTTGGATATGATGAACGCTCT CTGAACCTCAAAAATTATATGATTCATTAATAATTAAGCCAGATGTTGTTATCTTGCATAGAGGGATTGATGAGGAGACATTT GGAATTA AAAAGGAATGGAATTTAAGGAAAACCTGCTTATTAGCAATTGCTGGAGGAGTTGGTGTGAGAAATGTTGAAGAGCT TTTAAAAGAATATCAAATATTAATCGTTGGTAGAGCAATTACAAAATCAAAGACCCAGGAAGAGTAATTAGGATTTTATAAA CAAGATGGGTTAAAAA AAAAAAAAAAAAAAAAAAAAAA</p>

Table S11

<p>ERCC-00044</p>	<p>GGGAATTCGAGCTCAGATAGTGACTAGGGTAAATGCCAAGCCGTCTTATAAAAGCGGTAGCGAGAGATCTTAGAACTCCCGGCGAACGCCCCAACTTATGCGATGTCCAGCCCCAAACGGTTGATTAGATCGGTAGCTCCCGAACTAAGAGACCCTAAACGCTATCCGTGGACTGTGTAGGTAGGCCGTCGTCTAAGTGGCCTCGTGAACCTAACGCCTGCTGCTATGTCCCAATGAAGGGTACATGCCCTCTTCCCCTACTACGCCGATACAAAGTCCCGAACGAGCTTACGAAATATAGCGCTTAACCATGGGGCCACCATAGGTGCCTGTACAGACGTGTCAGACGAGCCCTCGGCTAGCTCATAATTGCGGCCGTTTATATAAACCTCAGCGTCTGGTCATGTCTGTACCACAACGCTCCCGGTTCTTCGACGCTCAGTTCGGTACCCAAGATAGCGGACTCTCAAAGAACGATTACAGTAGTCGCCGTACCCATGTAGGCCTTAAGAGGTCTAATTAGCTCTAGGAAACACAACCCCGGGATTTGGGATACGCCACCAACACGAATCCAGCCGCATCGCACGCGTCGAAGTCCCTCCGTGCTTGTGTGAGTCGACACATAGGATCGGGCACGGAGAGATCGGCGGTTGAAGTATGGAGCGTAGGTCTCGATCTCGTACAAAACGACTATGACCATTGGGCGTTGTAATCATTATCGTTACGATTTTACGGTGGCAAACGAAGCTACCAAGTAGATGCCGACGTGAGTGGATCCACGCAGTCCGAGACAGCGCACACTCGCTGTAGAGGGTTTTCAATCCGACTAAGACGGCGGGATCTACTACTTCTGCGAGTTTGTAGTAACTGTATCTCCCGAATGCGCGTTCTAAAACCCTGACGTGATGGGACGGGTGAAGCACCCGGTTTTTCGCCGTTAGGTAAGGTAATAATATGACCTTACCCTACGTTGATTGTGGTCATTACAGCAAGAGGTGGGTTATAACGCAATCTATGTTGCGATGCTATGTTATTTGACCCCTGCGGTAAGATTATTCCTCGTTCATGGATAACCCGATAATCCCGTATAACCTGTGGGTATTATAGGCGACAATTCGAAAAGGGCGAATTCAGGCCTGAATTTCTGCAGAAAAAAAAAAAAAA</p>
<p>ERCC-00046</p>	<p>GGGAATTCATCTCCTCTAACTTTGGAGAGGTAGGAATGGGAGTATTTGCACTTGTGGTAACGGTATTTGCATTATTGATGGTTTACTATGTTGGGTATGCTGTTTCGATTTCTTAAAGGACTGAATATTCGGTGGCAGTATGGGATTTCTAAAAATAATGTTAAGAAATTTTGCTGGTTTTTTGCGACGTTGGTGTGATTCTATAGCTCCATTATGGCCGTTATATGGAATCATTGGAGTGCCAGTAATTCACACGCCCTTATATTTAAAGACAAAAGAAGTGTCTAACAACAACATCCACACTACTCCTTGTTCATATTTCTTCTGAATTGCTGATTCTTATTGGATTTCTGATATTTCTTATGTTATGGGCTATTACATCTCTAAGGAATTGGTGAAGTAAAAATGGTGAAGCTTATGAATTTGTGGAGTGAGAGGATTAAGATAGGGAAGTTGTTGAAGTTATTGGCTGTGAGAGAGTGCCATTGATGAAACGTAAAAAAAAAAAAAAAAAAAAAAAA</p>
<p>ERCC-00048</p>	<p>GGGAATTCCTCTGTAAATCCCGTAAACGAGTAGTACGAATCCGGACTTGAATACACGCGTCAATCCCTTTTATATCCTAGAATGGACCGTGTGGACGGCAACTCAGAGATAACGCATATCTATGTGCTCGCTTGCCCATCAAAGAAGAGACGGCGACCAACGGACGACATATAGTGACATGGTCAACCCGTACGCCCTGCTTCGTAAGCCGACGGTCCCTTTGAAGAGGCTGGCGAATCATGTCGTTTTGTGCTTACTATTACATGCTAGCTTGGTTGGGGCATCTCGGGACAACGTCTATGTACAATAAACACAAAGCCGCGTAGTTATCTTCCGCGAGTTCCGCCAATACATTGGCGGTGACTTGAGACCGCTAAAATGCACATAGAAGCCTCAAACATGGTAAGACTATAGATAAGCGGCGCGAAAACACGGCATTGGAATGATGTGACTGGGAATAAGACGACGTCGCTATGGCCTCTCCGGAAGCGGTGTATGTGCCAAGCGATGTTTCATTAATGTAACGGACAGGTGCTGAGGTGGCTTTTCGTTGGGGCGCCGTCTTTGGGGGAGATTGCGTCAATTTTGACTGTCAGATCAGCGACTAGATTTTAGGCAGATTAGTGTGCCACCTGAATCAATAGAACAATATCAGTTATGGCGGTGCAGTATACTATACAATGGGTTGGGCGCATCTGCATGTCTCATGTCATGGCAATCGACCTCTAGTCTGGGGTGATCCGAGGCGTTCTCTTATTAGGAATAGTGCAGGACCCGAAACCGCCATAGGGAAAGGGTGAGCGAGGTAGCAGCGTAATAATTCCGCGGTGGGACAGGAAATGCTTAGTGTCTCAAGACCTAAGCGACAGCGTGACCTTGTTTCACTTACCTCTGAAGCTCTTCCGACGTTATAGATATTGGCATCCCTAAACAACGAGTACCTTGTGCTACGACAGAAAAGTGACCTGAAAAAAAAAAAAAAAAAAAAAA</p>
<p>ERCC-00051</p>	<p>GGGAATTCCTTACAATAGATGCGTTTTAGAGTAGCTGGGGGAATTTTGTCTTTTAAAATAGCTTGGGACATGCTTCACGCAGAAATTCACAAAACAAAGCACAAACCAGATGAAAGATTAGACCTTGAAGATATTGATAGTATAGTTTATGTCCCATTTGGCTATTCCCTTAATCTCTGGCCCTGGAGCTATAACAACAACCATGATTTTGATTAGCAAACCCAGAGTATCTTAGAGAAAGGGTTGTTGTCTCTCTATAAAAAAAAAAAAAAAAAAAAAAAAA</p>

Table S11

<p>ERCC-00053</p>	<p>GGGAATTCACATCTGTATAAAAAACACTACAGGGTGGTAACATGGTTCTATATAAAAATTAGAAGATCAAAAAACGATCCCTGT CCATCAATACCTTCAGCGGTAATTATAGGATATTCTGTTGGATTAAAAATTAATTAAGGACATGGAGCTCAGAGCTTAAGCAA TATGGCTGGTTCTTATGCTGGAAAGGAATTGGGAATTTACGCAATGAATAATGGTTATGAATTTAAGGATATTAAGATATTG AAAGATTTCTTAACCAGTTAGATTTTGC AAAGATAGAGATGAATGAGGAAGAGGATGAAATTATAGTAAAGATATCAAAATGC AATCTCTGCCCAAAGAGAATTTGTGGCTATGAATTTGAAGGAACAGCATGCCCTTGGGGAGGATTGTTAATTGGATTTATAAG TGAAACTTTAAAGTATAAATTTAGGCTACCAAATGAATTTAAAGCCAGCTGAAACATGTATTATTAATTAAGAAGAAATAAA ACTTATCTAATATTA AAAA ACTCCAAAATCTCATAAGGATGCTTTAATAACAATAACATCCTCCAACCTCATCAATTTTCTTGT ATTTTCAGCATCTATCTTTCTAACCCCTCATCTTAATCTCTTTTCCCTCAATTATTGCATTATAAGGGCAAACCTTTTTTACAAT TTCCACATCCTAAGCATTTAGATAATAATATCTCAACAAAATTATCCCTCTTAACATAGCTCCATTTGGACAGACGTTTATA CATTTTAAACAGAGTTTGCATTTCTTTTTATCAATTGCATAAGGAAGTTTGTGTTTACAATCCCAGCTTTATAATCAACTGG AACTATTAAGATTTAACAAAATCCTTTCCCTGCCTGAGCTATAGCATTTGTTACTAAGCTATCTGCAATGCCATTAACAACCT TAGCAACGGTATTTCCAGTAGCTGGTGGAGCAAATTAATAATCATACTTTCCCTAAGCTCAATCTTCCAGTGATTGTGATGAGT AAGGATGTTCTAAAAA AAAAAAAAAAAAAAAAAAAAAA</p>
<p>ERCC-00054</p>	<p>GGGAATTCGATAAAAATTGGTTTTGCCTTTCAGCAATTCAACTTAATTCCTTTATTAAGTGCCTTAGAAAATGTTGAACTTCCA CTGATTTTTTAAATATAGGGGAGCAATGAGCGGAGAAGAGAGGAGGAAGAGAGCTTTAGAATGCTTAAAGATGGCAGAGTTGGA GGAGAGATTTGCCAATCACAACCAAATCAGTTGAGTGGAGGGCAACAACAGAGAGTTGCTATAGCGAGGGCTTTGGCAAACA ACCCACCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA</p>
<p>ERCC-00057</p>	<p>GGGAATTCGAGCTCCTAGTGCATCCTCGTGGCATCATGCGTCTCCTCAGTAGGTCTGCGACTGATCCTAGTGCAATGCGTCTG AGCCTGAGCTACAGCGATATAGCCTGGATTGTGAGCGTATTTGCTGTGAGAACCTCAGCTCATCATGTATGATGCTGTACCAT CCTGCGATACTGAAGATGCACCGCTATAATGCGAGGCTCTCCGCTAAAGTGGAAAGCTGCTCGTTCTCAATGCGAGCGAGTCGA ATCCAATGCCGTAGCTGCGATAACGATGCCGTGACTCTACGGTAATGCACGATCCTCTACATTGATAGCAGATAGTCTAACG GGATAGCATAAGTGCAAGGCTCCTAGCATGTAGTACAGGTGCTCAGATATAGTCATCGCTGCAATCAGCTAGTCATCTTGTC AGGATGCTACTCACTGCGTGCAGAAGATTGCGCAGACTTCAGAGGATGGCACTCGTCATTAGAGTGATGTTCTCGGATCGACA CTGCTGGTCTGCGAATGACTCGCATTCACTAACATGGAGCATCGTTATCTAAAGGGGATGCACGTTATCGTCGAGTGGCCGTC ATGCTATGCAGTGGCGCTATGTCTCATTAGCGAGTCGTATGTATCATGTCGGGCTCGAATGTTGCACACGTCTGCGTAATG GTGACCGCTAGTCCCACATGGTGCTTCGTAGCCACAAATGTGCTTAGGTAGACCGACGTTATCGCGCTATACCCGATGTCAAC GCGAGTTAGACCGTATCGTCCCCAGTGCCCTAAGATGGTCAAGCGTGCTCCTACGTTAGTATCAGTTTCCCTATTGGTACGTC TGGCGTACTTCTGAAACGTGATGGGCGGCTGGTTACCCGTATATGGGCTCGGTTGACCTCTATTGGGCGTTGTTGACCCGAAT TCGGTATCCTCGTCTGTTAAATGGCGAACGTCTGTCTGATAGGCAAACGTCTGTGGTTCATGGCAAATGTTACTCGTGTGTGC AAGAAATTACTCGTGTCAAAAAAAAAAAAAAAAAAAAAA</p>
<p>ERCC-00058</p>	<p>GGGAATTCGGGAGAGTAGGGCCCACTTGTCGATTGTTTTGACTAAACATGGAGAAAGCATCCGAGGGTGGGCAGATCCGCCTA AGCAAGGTACCATTTAATCCCGTCCCACGAAAGAGTTAACCTATACGCTCAGATGGCGCCATGGTGCCTTCGGAGCCACTTT CTGCGAATTGTCCACCCTGCCCCTCTCGTGTGATGATCAACATACTATCTTCTGCGGAGACCACCCTCACGTGTGTAGGTGA GCCATGTTGAATCCATCAGGCACCCGTCCCGGCGTATGAGCGTCTGGAGGCTCACCAACAAAACCTTACATAAGACCGGAACCTC GAGAGTCTGGCATCATCGTGAACAGAGGCACGAGAGTGAGCTGTGAGTCTGACTGAGCATGTCTCGAAAACCTGTGATAGATT AAGCCATGGACCAAGGACCAAGAGATCGACGGGCTTGATATTGCCGCAAGGCTGAAGGTAACACCTTCAGCTTCAAATGCT TGAATACTCAGCCGTCCATCACTTCGACCGGGTTAAGCTAAGATCTGGTGGCGGTAGCCCGTCAAACGAATTGGCATCGGAC AAGACAAATCAACCAAGAATCTACGGTTGCCATGCCATGGTCTGCGTAACGACACCCGAGGTCTTTTTTATGGCGCCAGGCA TCGACGCTGTAAAACCTTCCGTTGTCTGAGCAGGTTATAACGACATCAAGCGACAGCGACAAAGAAGCGGGAAAACCTGTG GACTCCCGGCTATGTCAAATACGCTGAGTCACCCAACAGAAACGTTATCCGCTTGGCAAACGAATACATGGAAAGTGGGGCCG GTCGGATCACCAAGATAAGTGGTGTACGAATAGCCCTCGCTTGTCTAATCATGGGATGGTACATCGTCATTGCTATTGGAT GCAAGACGAATCCTGGCAACAGCCCTCCGGACTCAGTAGGTCCATGGATTTAACTACAACAGGAAGCCGGTCAACTGTGGAAG ACTACCAGTATTCGAGCTGGATAAAGAGGCTCGGCACCATGGTATAGATGTAATAGGAACCATGAAACTCCCATGTCGCAAGC ACTAACAGAGCTGTAACCTCCCTCCATTAGCGGTAATCGGGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA</p>

Table S11

<p>ERCC-00059</p>	<p>GGGAATTCATTTGATCGTAACTCGGGTGACCAATGACCATATACGGCGTATTAAGGTCGTACCCTCGGTCTCAACTTGTTCGTA TGGGACTTTCAAGTACCTTAGCTCGTTCGGACGCTTTAGATGACTTATCCATAGTCCTAAGTCCGGCGCCGGTTAAGCCGCTAT TAGCGTGTGTGGACTCTCTCTAGGAGCGGCTTCGCACAAATTACTGCTCAATCCTAGATACGTTGCGCTCTTTGGTAAACGGC TCAGATCTTAGCACTCGTGCAGTTCTACGATGGCAAGTCGTGCCTCGTTCTCGTGTAGAATATCAGCTAATAGGGTCGGCTCA ACAGTGTATCCGGTGGACAAGCACTGACACGCGATGACGTTTCGTCAAGAGTCGCATAATCTCAGAATCCGTACAGCCGCATCG GGTTCACGGCTATAAAACAGCGTCATCAGCGTAGGGTATCGCTTCGCGTGTGCATGACTTGGGCCACGTCTCTTTCTCGCACAT TAGGCTAGATTAATAAAAAAAAAAAAAAAAAAAAAAAAAA</p>
<p>ERCC-00060</p>	<p>GGGAATTCATCGACAATAAACAAAGAAATAGAACTTTTAAACACCAGAAGGAAAAATATTTTTGAAGAAAATTGGTTATGTTGA TTACTATGAGGCAGGTAGTTTAAAATTAGCTGAAGAAACAGCAAAAAGAGATGAGGACGTTATTATATTAATAAAATCATGGAG TAGTTTGTAGGTAAGATTTGATAGATGCATATATAAAAGTGGAGGTTTTAGAAGAACAAGCTAAACTTACACTTTTAAAC CTTCTGTAAAGAAATAGTGGGGATTTTTAAATTTATTTAACTCTTCTAATTCATAACAATACTCCAATTTGTGTTCTTG TGTGAAGTGGCATGTTTGGGTGCTAATCTCATCTAAGATGTGGATTGCTGTTGCACTTCTAACGATTGGCTCCTCCCC TCTTTTAAACAGCTTCTTTAGCCTTTTCAGCAGCAGCTCTAATGTTTCTTGAACGGTGTATCGTTAATTATCTCATCCAA ATCAAAGCAAAAAAAAAAAAAAAAAAAAAAAAAA</p>
<p>ERCC-00061</p>	<p>GGGAATTCGGAGAAGCTTGGCAAACACTACCGGGCATAGATAAAGACGCGGGGCCAAGCATGCCGACATTGGGATACTTCCAT GTTACGGGGCATGGAGGCGCAGCTATCCCACCCTCGTGCACAAGATGGACAACCGAGCGCGGTAGTAATCGCGAAGTCCAGG CACTTATTGTAGAGGTGAATCGCTAACTAAGTTCGGTGTAAAGTTTCCGTCGATGAACAGGCATCGGAGAGGGCTCTACGGGCCA CCCAGTAGTGACGTCAGGAGTGCATAAGGAAGCAGATTGACCGTGGCGCAGACTCGCGATATGAATAAGACTCTAGGGGGTGT ACAATTGATCGTTGCGTACGGAAATCGTGCAGCCTCAAAAAGTTAAGCGCGAGGGTACCTTGCTCCGCGCGAGCAGCCTTTGTC CAGGCCTAGTCTTGCATTGACCTATCGCACCGAGCGTCTCACCCAGCTAGTACGAAATTAAGTATAGAGATGGTTAACCC CCTCAGAGCGACTGGTTTTAAGTCTAGGACCGGACAAACGGTACGATTACGTCTTAGCATCAAGTGGTGCCTGATCTCGTGATA GACAACGTGAGAGTATTTGGATGTATGGCTAGTTACGCAGAGCATGTGGCATTATTCTCATGTTTTGCGGCGGAGCGACTCAA TTTATCCGAACCATGGGAGATCGTCATTCTTGTGGTGCAAAAAAATCACGGGCCCTGATACTGGTGAAGTTGCGCCCTATGC TTACACGGCGCACGCCGCGGTGGAGCGATCGAGACCTCTCGGATCTGAAATAAACCCGCAACGTGAGGTAGTGTACGCATAC ATTCGCCACGCTAACTGATGCGTTGATTTCTCGGAGTCTTTACCATGAGAATTGGCATATGGAAATCCTGTCATACCACGG GTCGATACTTGTCTCCGTCTGAAGCGAACCAAGCATGTTGACCGTCTAAGATGATTTTTCCGACAGAGTGACGCATATA ACACCTCTGGTCTTACAATGATTCGAAGACACGTGAGACGCACTAGAGGCTAACCTGGCAGATTGTGATCTCCGATGGTAAT GAAGTCGCCGTACTATCTTACTTGCATGACGCGACTACCAAAAAAAAAAAAAAAAAAAAAAAAAA</p>
<p>ERCC-00062</p>	<p>GGGAATTCACTATTGGAGAGAAAAGATATCAGCCAGACCTATTTAGTAGCTCCACAGGCGCTAATAAAAAGAGGCAGTATCATTA ATTGGAAAGAGTGCTGTTGAGGGGATGATTAGAAGAAGTTCAAATAAATATTCAAATAATCATAATAAAGTAATACCTTATAC TGAATATTCGAAATTATTATTTTGAATTTTACAATATAGGTGATATTATGGCATTAAAATTCACCATTGAAGAGTTATCAAA TCAAAAAAGAGATACATTAGGAAGAAATATTGACGTAAGTGTTTTTAGATTAATAAGATTTATGGATTTGGAAAGATATTTAG GAAGAGGGGCTCATGGAGTTATTTACGAATGTGGAAGAGAGCTTGGACTGGCATTAAATCCAAAACTATTGAAGATGTAGTT AAGTTTTGTGAGGAATATAAAATTTGGAAAGGTGGAGATAGTTAATAAAGAGCCATTGTAATTTAGGGTTTTATGAATGTATCTC TTGTTCTGGACTTCTGAGGTTGGAGAGACATTATGTTGGTTTTGAAGGAGGCTTTATGCTGGATGCTTAGAAAAAATATTA ACAAGAGAGTTAGAGTGAAGAAACTCACTGTGCAGGTTTGGGGCATGATTTCTGTGAGTTTGGAGTAAAGTCTTTAATGA TATTTTTTCTATCTATTTATATATATTCTAAAGCTTCAAAACCCTCTTTTCTATGTCTTGCAAAAACGGCTATTGAAGCAAT CCTCTCCCCAATACTTAAAAATCCAGTGTGTTGGTAAAAAAGATATCAATAACATCAAACCTATTTTTTTGCTCCTCAATAA CTAACTTCAACTTTTCTAAGATGTCTTCATCTATCTTCATTCCTTTTTGATGGAACTTTTTCTCCATCTTTTAAATCATACTCC CTAACAAATCCATTGAAAGTTACAATACATCCAAATTTCCCTTTGTATTTTTCAATACATTCATCCATCTTTTTGAAAACCTCT TCATACTCGTTAAAAAAAAAAAAAAAAAAAAAAAAA</p>
<p>ERCC-00067</p>	<p>GGGAATTCGCCGTAATTACACCCTACGTTGCTGATCTCGGGCGCTCGTACATTTACACTTGTAGTTGAAGGTCGGGCGATGAGG CGTTCGTTTGGCCAACCTCGTTACATTGCACAAATGCCGGATTTGGCTACTATATATACTCCCTGATCAAGGGTCGAGTTGTC TGTGCATTAGCTCGGAGCTAATGAGCACGTCGGTCACGGACACTGCGAAGCACGACGAAATGGCTCTCATTGCGATTGTGGCC CTTGTGTCAGACAATGTGTCAGGCGGGACGGGCCAGGAATGACAATAGAACATTAATCTAATTTACAATTTGACGCCATGACGT ATTAACATTCGGGCATGCAAAATCACCGATTTAAGATCCCCTGTACGGCTGCGTCCACACTAGCATGATGTAATCGATTTG GCGGTGACCGCTGATCCTTAACAAAAGGGGGTGGTTCAAATGTAACAAGTAGGTGCGAGCAAACGTCTGGTGTCTAATGG CAAACATCTGCAATCAGCGAACCTCGCGGTATGGCAACTACTAATTGTCGGTGCAGACGAAATACCGAGGGAGGCACTTA TGAGTTATCTTCGCTGTGATATCTCTTCGACTAGCGGGTCAAGTCCAAAAAAAAAAAAAAAAAAAAAAAAA</p>

Table S11

<p>ERCC-00069</p>	<p>GGGAATTCGGGAGAAGTACCAATATCAGACTCCCGAGACATAAGGGGTGTGCACGGCATGGATGTGTCGCTAACCTCCTGGTC CTATAAAGCAACACTCATGGCACCGTGTGCTGAAGGCTCCAAACGGGTCGATACCAGAAGGGTCGATTCTTTCTTCCAATACA TTGTCGGTGTCAATGCTGGAGGCCAGGAGACGAAATCCTCGGTCAGGTTGTTACTTGAAGGGTTCAACACGAGCTCAAATTT GTCCAGGGGTGGTCACCAGCGGGTCTCGAACAGAGGTGAAACGGGATAAATACCCGAAACATTCATAACCCTGCCAGTCATTA TAAGCAAGCCGCTGACTTGGACACCACAACGTGTGGAACCTCAGGTAAGCTGGTCCGGGAATCTTGGTCGCGAAGCGACCCCA TTGAGTAGGCAATCCAAACCCTGCAAACAATAGGTGGCCATCCGGTCAAATAATGTGGGAGATGCGCACATCATGAGAGCGAC GTATTGAACTCAAGGGACGGTGGTCCCAGGAGAGGGATTACCACATGTTGAAGCTCTTTCAAATCGATTATCCCAATCTGCGC ACTGTAAGGTAACCAACCGCAATAATCCCCAGAACACTGCCCTGGTATCTATCGATTGGAAGTCCAGACTCTAGTGATGCCG GCTGGTCGCGACAAGAAAACATAATTCGCAAAGGGCCCTGTCTCATTTGGCGTCTTGTACCCAAAACACCATACTGGGAGGG TGTTGCGGCCGCATATCAACGACTAGAGGCCGTGAGAATGAGTCTTCAACACATATCGCTGAAGAAATGTCACTCCCATGGTG GCTGATATAGAAACATATCCTCGCGGACTTCATCGCCGGGCACAAGGCTACAAGATGGACTGGAACGCCGTGTCAACCTCGTA ACAACCTCCCATGCAATTCACTCACCGAGTAGCCTATAATGGGAATGTAGACGGGGCCCTATCTCAAATGTGTGCACCTCTA TCCCCACCAAGTATAGTCGACTTAAGGGCGGATCAAATGGCGCGCTGCCATACAAATCCGGTTCCAAGCATGACTCATGGGCA GTACGCCGGTTAGTGGGAAATACGGCTGTCAAACGCTGGTCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAA</p>
<p>ERCC-00071</p>	<p>GGGAATTCATGCGAGAGGCCCTTGAGCCGTTGGCCGATCGCATAACAGAGACTATTGCATCAAGGTAACACTTATTAATCCCCA TCGTCATAATCGCTAGATTCTAGGTATTTCCGATCTTCCTAGTTATCAGAAACATGTTAATTGGGCTCGGGCGTCTGCGCCAG GCCTTCGTAGTCCATACCACGATCTGTATTTGACCTTTCGCTATGCTGAGGTTGTTGACATAAGGATTAACCTGCTGTGGTG TGTCATACTCGGCTACCTCCTGGTTTGGCGTCAAACAACCTCCAAGATTATCTCATACTATAAAAAGACGACATGCACCGCCG TCCTTAAGTGCTTACGACAGAGGGTTCGTTATCTCTCTCGGTCTCGGTGCGCCTCTTACGGAGCAGCATGACCTGCTAACCTG CATCAGCCAATGTCCCGTCTCGAGCTGGCCTACGGATGCGTGAGCAAAGGTGCTAACTCTTTTCATAACCCGGAGATGAACTA CCACGCTTCCGTGCGTGGGTCCCGCGAAAACGAAGCAAGGAGATTCTTCGCGACCTGGCCATTCACTACATAACAGAGTTAAG ACTTAGATCAGCGAGCAGGTGTACGCCCCGACCTTGGGCTACTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAA</p>
<p>ERCC-00073</p>	<p>GGGAATTCGTGATAATTTGACGAGGCGTTACATATTCTGAGAGGGGTGATTAAGTCTGCTTCGGCCTGGGATGGTCTGTCT ACGTGTGCGTAGTTCTGTGCATAGCGTCGAGGATTCTGAACCTGTCCATAGTATCCTGTAAGCGTCCAATGTACCTATATCGTG GACCCAAAGTCGATACGTCCGATTAAGCGACGTTGGTCTAGGTAACGAATTATACCCCTCGGGTTACGAATTATGGCTGTGCC AACGAATCTGGGACGTGCCTAAGTAATCTGGTCCGCGACTAAGATGTACGGTGATCGTGGACGCTTGACCGGACTTATGCGTC GCCTTCCGAGTTATTGGATGGCGTTCCGTCTATTGGATACTATTCCGTGCGTGTGCGACACGTTCCGAGCATATGCTAACAG TTCCGTCACTATGTAACGCTTGACGTAGATTGCTATCAGGTTACGATGACTGCTAAGCCATTACGCGACATTCTGCAAAGTTA CGTCGCATTCTCTCACGTTACGGCTGATTCTCTAGGCTTACGCGCATGAGCTCTAGGTTCCGGGTACTATCGAACGTGTCATT GGTACTAAAAAAAAAAAAAAAAAAAAAAAAAAAAA</p>
<p>ERCC-00074</p>	<p>GGGAATTCGGACATTAATTAGGGCTGAAAGCCCTAACTTAATGGACGGGAGGTATCCCAATAGGAGGTTTCTCCTATGGTT TTCAAACAATCACCATCATGCTATTAATGATATTAATAATCCCAACTATACCAAAGAATATCCCAATTATCCATAAACTGTA ACTAAGTGAGGCTCTCTCATTGGTTTATACTTCAATATAAGCCTTGGTAGGGATAGATAGCCACCTATATAGTATAGCTTCCC ATCTTCTTTGAGAGTTGTTGGTTTATGCTCATCCCTACTCATAACCCCAGCACTTAGATATTTTAAAGAGGCATCTATCACAT AAGGCATCATTATAACTAAAAATGGGATATATTCCTTATAAACTACTGCTAAGACAGCTAAGAAAGCTCCAATTGGTAGAGTT CCAACATCTCCTGAAAAACCTTTGCTGGATATTTGTTAAATATCAATAGCCCTAAATAGGATGCAGAGAATATCAAAGCGGA AAAAATCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAA</p>

Table S11

<p>ERCC-00075</p>	<p>GGGAATTCTCCTACACGTTCCCTCATCTGAAACCATACAACCTACCAACTGGATTTAATGGAGTGCAAACCGTTCCAAACAATG GGCAGTCAGTTGGCAGTTTCTCTCCTCTCAAAATCTTATCACATATAACAACCTTTAGGAATTTTCTCTTTAATCTCTGGAATA TCCTCATGCTCATAGATGTCAAATTTCTTATACTTCTCCCTCAATCCAAAACCACCATTTTTAACAACCTGGGAAACCTCTCCA AGGAACATCTATGCTTTCAAAAACCTTCATTTATTATTTTTTGAGCTAAAACATTACCTTCTGGCTTAACTGCTCTAATATATT CATTTTCAACCTTTGCCTCTCCACTGATGACTTGCTTTAAAATCATTATTATAGCCATTAACACATCTATTGGCTCAAAGCCA GCAACAACCATTTGGAGCTTTGTATTTTTTACACAACCCATAATAAGGCTTTAATCCGGTGATTGTTGAAACATGTCTGGGCA TATAAATGCATCTAAATAAACTCCCTCATTTAACAAGAACTCCATAACTGGAGGAGTCTGCCTGTGGCAATTTAGGATAAAGA AGTTATTAACATCTTTATTTTTTAAACTTATTAGTTTACGCCCCAGTAGTTGGAGCAGTGGTTTCAAGACCTATTGCCACAAAA ACAACTTCTTATCTCTCTCTCTTCTTAGCCATCTTTACTGCTTCACTTATACTATAGACAATTCTAACATCACAACCTCAGA TTGCTTTTCCATCAAAGATTTTTTCACTTCCCGGCACTCTATACATATCTCCAAGAGTGGTTATTACATATCCATTGTCAGCTA AATATATGGCTGTATCTATCTTTTTTGGAGTTGTTACACAAACTGGACAACCCGGCCCTGGAACAACGGTTATATTCTCTGGC AGAACATCCCTAATCCATACTTACAGATCGTGTGCTCATGACTTCCACAGACGTGCATAATCTTTAATTTATCTTCTTCTCA GCAAGTTTGTAAAAA</p>
<p>ERCC-00076</p>	<p>GGGAATTCCTCCTCATGTGAGCGGATCACTATCTACAGCTGGTAATACTCTCAGAATTTCTAACTACCAGTCGTAAAGTAGGC GAGCGTTGGTTGGTTCCCTCTTGAAGCGAGAGAACCAAGGTGCTGGCTATTGTCCGCCCGTCTACGGCTAACGCGGGGTTCTG CCATCCCGGTTTAGCGCAGAATAGTATTAGTCGGTCAGTGGACCCCTCCTGAATATCTATACTTAGCGGCGGATTACCCGGC CCTCTTCATTGTGCGAAAGATTGGGAACCGCCTCTGGCTGTCACGCCCCAGGCCCTAGGTGAGGTAATGTGAGGATTTTTT TCAATGTTAGATCATCTATGTAGTGGATCTGAGAGATCACGTGGACCAAAGCTGATTGATTACGGGACTGGCCGTAAGTGCTG CCCGGAGTAGATCGTCTAGATCCGGCTAAAATTCCCTGCGGTGCCTTAGCCACCCTCCTACGACGGGCGCATCTTGGTTA TTCTCGCTAGACACGGTTCCGGAAGTGGAGCATCGTTAGCTGCCAAGATGTGTATGTTGTGCCACTCTCGCACCGTTTTTAT AGTCGTTCTATTAGAGATGGTTGCACATGGGCGTTTCTCATCGGTAAAAA</p>
<p>ERCC-00077</p>	<p>GGGAATTCAGTTTTTTCACCTTATGACTTCTCACTCCATACGAAAGACAGATGGTTTGCTCCCAATGAACCCAGAGGGAGTTA AGGTTGATGATTCCCAAGTCCAACATGGAGTTATGCCTATAACGTGATGTTGGACAGACCCCTGTATTGAGCAGACTTAACTT ATACTGATATACAGCTAAAATTTGAACAACAAATCTCTTAAATTTATTGTTGAGAATAAAAAGGATACTATCTTATCCAATAT TGTATTTCCAAAAA</p>
<p>ERCC-00078</p>	<p>GGGAATTCGGGGAATTGGATTTGCAGAGCATATTAGCAAGTTAACGCCGATCACTCTCCGGCAGTTGCTCCATTAAATACGGG CCTTCGCAATCGCGTGTGTTACACATAATGCCGGTATCCATCTACTATCGCCGCCAGGTGCAAGAAATGCATATCCCGGCCCT ACCCCTTAGCAATCGACATTTGTCTTTGCTGGACGCGCATGATTGAGTTATACGGAACTTCGCAAAAGTATTCCCTTTGTGG TCCGTGCGCCATGCTCCTCTGGGCGTAGCTTACAAGGACTAGGCCGTAGCCTGTAATTAGGGAACCGAGCACCAGAGAATCAG GGTCACAGTGTGTGGTAGACGAAATGATCGTGGGCTGAGGGAATTAGGAGGCGCCGGTCCAATAGTCGATAACACCTGACGGA AGTACGGCTGCAGGATCTAATCATATAGTTCAGAATTGCACGCGCTAAGAACGGACAGTGTAGACACAATAACAATTAA GCGCAGATCTGAGAGAGGGGTGCACAATCCAGGCAAAGTCCGTTAGAAGTCAACCTTGTGGGTGCAGCGCTTTGCTCCTAAA GATTCGCTCCTCGGGAGCGACGCGACTGCTAGGGACTGGTAAAACGTTGGGCGCTGTCCAAGGTACCCTCAGTCTGTATTTCA TGCCCTCAAATATGCAATCCCGACCCGGAGCCGGCTTTAGATTTATAGCAGAGGGTCTCCGAGGACTGTAATGCTTTTGCGA GACAGGAAAGGTTGGGCGGTGTACGTACCTCTACGGTTCGAGGCTTGGGTGTATCATGGAGTAATCTATATTCTTACACGCT TGCTTGCTCCTACCATAACAACCACGAGTCATTACGCGTACATATACCAGCAATTTCTTCTACGGACCGTTAGGAAGAAAATGA ACGGAGTGGCTGGCCATAATTTGCACCCGAAGCTACTGGTTCGGACCCATCAGCGCGTGTGTAATAA</p>
<p>ERCC-00079</p>	<p>GGGAATTCGATGTTGGAGTTAACGGAGACCCGCCATCGTTTACGAAACAGGTCGCAGATAAATGTGGAGCAGATTTACGTTGA GGGCCTTCTGGGGACCCAAAGGATGAACGGGGTGTGTTTTCAGAGCGAATAGAGCGATCACCACGCGCACGTCTTTTTTAA GATTGAGCGGCTAGGTGTTTCTACAGTAACTCAATTAGCGTGAGCCAAAGGGCGGAGCCACGGCCAGTAAGCTATTTAGGG TTTACATGGCTCGATACCGAAACGTGACCGGTACGACGTTCAATTTCTCTGCTTTGGAGTTATCAATTCGTGACCCCGATCAT CCAGTCCAGAAGTCGCGGCCCGAAGATCAAAGACGCTACTGACTTGGACTGGTACGAGAGCCCGAGAGTTTAGTGTGCGCACC CCACGTATTTTTTTCGCGTGCATCATGCTTAGATTTTAAACAACCCGCGGGCCGAAGTTTGATAAGCGTGTCTAGATTGGAAC TACCCTGTTAAATACACGACGCCATCTCCAATCGCACGCAACAGGGGGCTTCCACCAGATACTCCCGAGGACAGGTGGAG ATACCAACCACGAAGGAGGTCTCGTGCTGAGCCTTCGTGCATATACCAAAAAA</p>

Table S11

<p>ERCC-00081</p>	<p>GGGAATTCTTTATGCGGGGTGTTGTTGATAAGACTTCCTAGGCACGCGGACCAAGCACGTTAAAGGGAGGTTTCGCTCGATCAA GAGATCCATACAGCAGGCTCCTATCAGTCTATCTGACGCCAGTTGCCATTGGACGGGATGTCGAGGGTTTTCGGGTGGGGAACG ACCATACTTACTGTCATTACGACGTGCGGGAAATTGAGGTTAAGTTGTTTGCACCCTACAATAACGAAGAATTTAGCCACC AGTTGGCGTTAGAGTTGTCAAGACGTTGGCGTGATGGGATGAACGTCGCTTAAACGTTGGTTCAGGGCTCCATATATACATCT GCCGTGCCCCCTTAATCTCCATACAGACCCCCAGGCGGAATGATAAGTCGATACCAGGACAATGACGGCTTCAACGTTTTTC ACTTCCGCAGGTGGCGACCCTCTAGTTGCACGCTGGTACATCAGACACGTACACACGCGCAGTGGGGTGTAAATCAAGCAGGA CCATAACTGATAGTTACCAAAAAAAAAAAAAAAAAAAAAAAAAA</p>
<p>ERCC-00083</p>	<p>GGGAATTCGAGCTCGAGTTTATAGTCTTTTTTTGATTGCCTCAACTAATGCCTCCTTTGTAGGAGCTCCAATAAACTCAACAT CCCCATTTATTACAATTGTTGGAAGTCCATTATCCCATATCCATTGCCTTTTGGAGGATTCTCCATAACGTTTATGTATTCT ACTTCAACAGCATCCGGCATTTCATTTGCTACCTCTTCAACAACCTCTTTTAGCTGCAGGACAGTGAGGACACATTTGGTGATGT AAAAAGCTCTATCTTTACCTTTGACATACTAACACCTTAAAAACCTCTTAAGTTTATAATAAAAAATTTTATCCAAATTTTTAT AAATAGTTTTCCAAAAATAGAATATTAATTTATAGGCTAAAAATTAATGACCACATGTCCAAACTTGTCTGAAGTGTTCATTT GCTTCAACAATATCCTTCAATTTCTCTGGTGGGAAAGCTACAACAACCTTCTTCTGGCTTAATTCCAGCGTATTTTCTTGAACC GTTACAACCTAAAGTCATGTTAGGAGCTTTTCTTGTATAAACTGCCGCTACAGCATCAGCACACAATGACTGAATTCCTGAGA AATCTGCCTGGAATCTTCCACCTTTATGGTAGAGTATTGCTTGAACCTCAACGCATATAATGGCTCTCCAATAAATACA ATTGAGTCTGGAATGAAGTCGGTTTTATCTAATGGAGCATAGACTGTTGCATAAATTTCTTCAACTTTTTGGTATTGCATC AACTGTTTTTTTTAGCTGCCTCTTCTAATTTAAAGTTTCTAATTTGACATATAATTTTCTGTTGCTAATGGTTCTGGTGGGT TTCTAAAGACCCCCATTGCATAAGCTCCTCCCTTACAGAGGTGTTTATCAACTGTTGCATATAATTTTTTTCTTTCTAATCTT GCCATTTAAATCATTTACAGTGTCTTTTTTCTTCTGCTAATGTTTTCATAGCCTTCTGGAATTTCTTCTTTGATTTGCCAT TTTACAGCGACAAATGGAAAAAAAAAAAAAAAAAAAAAAAAAAG</p>
<p>ERCC-00084</p>	<p>GGGAATTCGCGAATTGTCTGGGGCCTCGTTGTGACTATCCTATTACGGGGATCTCAGGTGTGGTATCCCTGGTTGAGACATTG GACTAGTGTAAATGACAGTCATCGTATGCGGGATACCTCAAGTTGTATTCGAGGGCTTATCGGTGATACTGTGTAATCCCTTC GGCGAAAGATGTATGCGTGAGCATTAAATTTACGTGTTTCTTATATCGGACGCCTAATCTTTACCCGAGAAAGATATCTCTGT AAGTTTTCAAGCAACCGCTCCTAATGTATATAACTTTGGATCATCAGATAGGCCCATTACACTCTTCGGTGCTGCCGATATCC GACGAGCGGGCTTTTCGACTTGATCAGCGCTGTGGGTAGAGCTTGGATAAGCGAGGTCAGTCAAGCGATTTCGTTGCCTCCGGG TCCCACGTAGATCGTTTGCCTGCATTTTATAGGTAGTGGCCTGCGTTCGCACTCCGAGGCACTGGGAACGATCCTACCAACAT AACGGTCGAACTCGGTGTGCGATGACCCGGACGGGACGCCCGCGCTCACACAGGTATCTGGCGTGTACACCCGAATCGGCGGG GCTCGGCGACACAAAATGCTTCTAAGTCTGCTGTAATCTACTGCAGAATATGGGTTTGTAGCGCGCCGGTATCTACCAGCA AAACATAGGAGCGTGGCCGAAACTGGGTCACTGAGTGAATATATCCGAGTGCAGCTGCCATTAGTGGGGCGGTATCGGGCGT GATTGAAGGTAGGCTAACATTAGTCATCTGGTAGGGCATATTTTACAAACGGTCTAGGCTGCGGTTTACAGATAGGGACTGATAT ACTTGATGTGCCCCGTTCTTCAGCGTGCAGCTATGCAGCGACAGACGTTTGGAGCCTTAATCAAGTACGCATCGGAGCATA GGTCACTGGGGCATTTGCAGTGAATTAACCATCCCCGTTCCCGCTTCTCAGTTGCAGGGTGGGGAAAAAAAAAAAAAAAAAAAA AAAAAA</p>
<p>ERCC-00085</p>	<p>GGGAATTCGATTCAGCCTGACGTACATAGACGAGATAGGGTAAGCCTATTGCAAACCTCCGCTTTGCTACTACAAGGACCTCG GAAGTGTGGAGAATCGAACCTACAATTTTCCAGGATCAGCCGGTTATCTCTTGCAATTCCTAAGATGGAGGATAGTTTTGG AACCCAATATCCCCAGCCTACGTTTTAGGTGCAAGAATAGAGCGTACCAGGCGTCGCCCGCGCCTTATGTAGTCTGTATTGT TGAATTAGCCTTCTTCAGAGGGCCTAACGCCAGCACAACATGCTTACCTGGCTAATTGACTAAGTGTACGGTACACAACGAC TACGTACGTAGCACACAGTTGAGGTTATCTCTGAGCGCCCCGTTAGAAGTGGGGCTCAATTATAGTACCTTAACTGCGTTGC GCTGTCATGGGAAGGTATTTTAAATACGGATTCAATACCGCTCCACCGGCAGCGTTCCGTTACATCCAAGTGGTGGACAAACC TGCTCATTCAAGGGCGCCTCCATCGCAGGGTTGCAATTTATTTTCTAGCTAGAGGTGTAACCATGCCGGCAGCGAACGTCCGC ACTAGCAGGTACACAATCAGGCATCGAACATGTAAGTCCGAAATATAAGTCGGATACTTGCCTTAAAGTCGCATCTG AATCATAGCCGCTCCATTGCCGAGTAGACGGGATCTGCTGTAGAATGGTAATCAGTCTTACCCGTGGGGTCTGTTCTGCCCGAG TGCTGCATTCGCTACGCGCGGTATTCAACAAGGGTAATCCCTCCGACAACCCTCAGTGTATCATCCGCGTCAAGGGGGAA AAAAAAAAAAAAAAAAAAAAAA</p>

Table S11

<p>ERCC-00086</p>	<p>GGGAATTCGAGCTCTTTCTCTTGACTTTTTCCATAACTTCCCTAATTGTTCTATAATTCTCTTTCAAAGAGTCCTTATCATAA CCAAATACATAAACTCTAACTCTATTTCCCTTTTGATTCTATTGTGCAATCAATGTCCATCCTTGATAATCTCTCACAAAGCTC CAAAAGCTCTTCATCACAACTCACTTTTTGATGAAATAATCTTTCTCATAGTATCGCCAAAATAATAAAGTAAATTTACAAATT ACCATAGCTTATATAATAAAGTTTTGCATGAACAAAAATGTTGTGGTGATATATCATGGACGAATTTGAAATGATAAAGAGAA ACACATCTGAAATATCAGCGAGGAAGAGTTAAGAGAGGTTTTAAAAAAGATGAAAAATCTGCTTACATAGGTTTTGAACCA AGTGGTAAAATACATTTAGGGCATTATCTCCAAATAAAAAAGATGATTGATTTACAAAATGCTGGATTTGATATAATTATATT GTTGGCTGATTTACACGCCTATTTAAACCAGAAAGGAGAGTTGGATGAGATTAGAAAAATAGGAGATTATAACAAAAAAGTTT TTGAAGCAATGGGGTTAAAGGCAAAATATGTTTATGGAAGTGAATTCCAGCTTGATAAGGATTATACACTGAATGTCTATAGA TTGGCTTTAAAACTACCTTAAAAAGAGCAAGAAGGAGTATGAACTTATAGCAAGAGAGGATGAAAATCCAAAGGTTGCTGA AGTTATCTATCCAATAATGCAGGTTAATGATATTATTATTAGGCGTTGATGTTGCAGTTGGAGGGATGGAGCAGAGAAAAA TACACATGTTAGCAAGGGAGCTTTTACCAAAAAAGGTTGTTTGTATTACAAACCCTGTCTTAACGGGTTTGGATGGAGAAGGA AAGATGAGTTCTTCAAAGGGAATTTTATAGCTGTTGATGACTCTCCAGAAGAGATTAGGGCTAAGATAAAGAAAGCATACGC CCAGCTGGAGTTGTTGAAAAAATAAAAAAAAAAAAAAAAAA</p>
<p>ERCC-00092</p>	<p>GGGAATTCAGATGTATATATGATGTCCTTGGACGGGGTGGCGCAGTATTACTGCAAGAGAGCGGACAGATTAGTGTGTTGGAG CCGACACATCAAAGGTTCTGTCGGGGACCGATCTGCAGCCTACGGGACATTTATCCGTAAAAGCATGGCGCTGTTTCGTA ATCGGAGGCCAGGTATCGTCGCGGCGAGTCTCCCCGACGACGGAGATGGGCGTTACTATCTGGGCGTCTCGTACTCTGTTAC TTGGCACAGATGCGAGCCCTCGTAATGTGCATCAGCTAAGGGCGATATTATAATGCGACGTTTGTACGGATTTCGTTACTAACG TGTTGGACGCTAGTGAATATGTGTCGTTGGTTAGCCTACCCATGGCTTTCGCGGCGACACATGCTTAGACTCTTTCAA TCGGTGAAGTTCACTCAAGCCGCGGAGCGCGTCTGTAATTCCTAGGGATGGCGGTACCCGTGCCCGTCCGATTTCGTAGCAAC CTGCATCACGATTTTGTCTTCGGGCGACTTATCAGATACGTAATGTAATACTGTCATTTGGGCACCTCTTTCGTTTAAAGC GGGAAAGATCGCGAGGGCCCGCTATTTGCGATACTTCCCATGTCGGTGCCGTCGCCTCTATGTACTCGGAGACGTTAATGCAG AGGCTAAGGACAATTTACCATGACTCGGTAATCCGTTTCGTCAGCAGGTAGCTCGAGTCTCCCCACGGACACGTTAGTGGGTTT GTAACGATCGATAACCGAGTCTTTTGTCTAGTAGAACCAACCAACCATTAAGGAGTTCCTAGCACATCTTTGCGACCCGATC GTCCGTGTGTCGCGTAATACTTTTGTATGACGAGACATACGCTCAAGCCCTGGGTAGCTAGTTCGCGGAGGCACGTTACCGCG CACAACCCCTATTCGTTTACATGTACATCGCATCTGAGGTAGTACACTTCCGGCGTACGTGAGTATTTGCGCGTAATAAGCGC GTGTTTAGCTGATCCCCTCTCGTATCGAGGTTAAGGCAGATTAGTGCCAGTAATTGCGTTTTTTTTTGTGCTTGTGCGAGAACG CGATTTGCTCCGAAAGCTTTAAGCCGTGGAAAAAATAAAAAAAAAAAAAAAAAA</p>
<p>ERCC-00095</p>	<p>GGGAATTCGAGCTCTTGATGATGATACTTAACCAAACCTACCCTAATGTAGTCATCTGTCTCCTTCTTCTGTGGATTTAGGA ATATCTGCTCTGTCTCTCCAACTCAATTAATTTCCCATTAAGAAAAAGGCAGTGAATCAGAAACCTACTTGCCTGCTGC ATGTTGTGGGTAACAACAACAATCGTATAATCTTTAGCTAACTCAACCATTAACCTCTCTATCTTTAATGTGGAGATAGGGTC TAAGGCAGATGTTGGTTCATCCGTCAATAAAACCTCTGGCTTAACCGCTATCGCTCTCGCTATAACCTCTGCTGTTGTC CTCCAGAGAGAGATAGAGCGTTTTTATGCAGTTCATCTTTAACCTCATCCACAAAGCCGTTTTCTTTAAAGCCCACTCAACA ATCTTATCCAATCTTTTTTATCCTTAATTCATGAATCTTGGGCCAAATGCAACATTATCATAGATGCTCATAGCAAAGG ATTTGGTTTTGAAATAAAAAAAAAAAAAAAAAA</p>
<p>ERCC-00096</p>	<p>GGGAATTCAGATAAAACGAATAGCTCGTAACCAAACATGCACAGCGGTCAAACAGTATGTCCCAAGGGGACTTAAGCGCGGTG GCCTCCCCTATCCCCTACGAGGCTACCCGGATCGATGACGCGAATTGGGGACATTCAAATGAGCATCCTAGTCACCGCGTTTA AAATGAACCTGCCGGCTGATCGTTTTTTAGGATATTGTGAGTAATATAGATTGGCGCTAGTAGATCACAGAACAACCGCCGCAT ACGGCCGATTGTCGCGAGCCCGGGTCGATTATAACAACGGTGCAATCTCAGCTAAACCGACGCAGTTTTGCTCCTTGGATTCTG AGCCCGGCATCGCCCTCGTTTTATGAACTAGCCTATCGCAGACGGTATCAACAGGAACATCCTCGTGTAGATATTGAGGCT GCTTCGTGTCGGCACGAAGTGTCTTCCGATGCAGTGTCCAGTCATGACCTCGATCCATCGCGTATAGGGACGCCCCCTGCTCG CGTTACTGCCAAGCGAGCGTGGTGTGGTGGCCCCGACCTACAACCTTGGCGCAATTATCGAGCTGGTAGACGACCAGCGCTGAC GAGCTGGCGCAATGACGACCTAATTGGCGCACAGTACTAGGCATCGTCATCCAATGCGACGAGTCTTACACTATCTTGGATAT GATATGGCGCACTACACATGCTAGCCGCTGGGGAGATTAGCTCGAGTTGCCCTTTGCCCGATCCCAGGAGATACGCTCTAAG CTCGGCAATCGCTCTTGGCGTGCAGATGCTAGCAAAAAGGTGTACTTCTCAGCGGAGCAGAAAGATCATGTTTATTGGAAGC ATCAACCTGCGCCGTCTTGTAACTTGTCAATCGCGCACGTAAGTAGCCTAGAGCGCCAGGGGCGGAAATTCGCCGAAAAGT TTTGCCGGCGACAAGCACGATCGGCTCCTAATAGGAGGTGAATTAGATAGGGAAAAGATCGGGATGCTACTAGTTTACTGCG TCACGCTGAGGGACTCATCCTGGGCTACAATCCTATTGCCGAGATAGTATTTCTTAGCTTCTGAGGGAGGTCAATTTGAATG TGGTTATATGCGAAAAAATAAAAAAAAAAAAAAAAAA</p>

Table S11

<p>ERCC-00097</p>	<p>GGGAATTCCTTCATAATACCACCAAAATACCAATTCGAAAGTTTTAGCATATTCAAACAATATAAAATCTTCAGATTGGACA TTAATTGGGACTGAAAGTCCCAACTTAATGGACGTGTGGTATCCACACCATAAAGGGGCTACGCCCTCTTGGGATACTCCCC TAATATTGCTAATTTACACCTCCGAGCATAAGCGAGGAGGTGTTAGGTTTTGATGAACCTTTTACTAAAAGGTTTCATACCAAT AGGAGGTTTTCCCCCTATGGTAGTTAAATGTACATTGGATATTCCTTTCTACTCTTTGACATCATCTTTAAATGTTGCTCTGCC AGTTCITTAAGTTTGTITTTCAATAGCTTCAGCCTCTTTGATGAGATTTTCAATATTTACATTTAGATTGAACATTTTATTCAA AACCTCTAATAGATTAGCCCCCCTCTTGGGTCTGGTCTAATTCCAACAGTTTCAGCCAACAAACCAATAGCATCAAACCCAT GTCATGGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA</p>
<p>ERCC-00098</p>	<p>GGGAATTCGGAGGTCGCAATTACATCGGTTCCGTGCCGTAGAGGCTGGAAGGGGCATAAGAAGCAGTGATACCAACGCTCTC CCCC GCGCTCTCGTGAGAGCAGACCATGAACATCGCAGAGGAGAATCCTGCATGACTGAATGCGCAGAGCAACTGTCACCAC GTGGTTAATGAGAAGGCAGA ACTCAACAGACAGCTCTGGATCTGCTGCATCCCAGGGCAAGAATCAGGAAAGCAGATGCAGTA ACCATAGGCACGTGAAAATGCTCCCGGCCACACTTTGGAGCTATTACCATGGTCGGGCCCAAACATAAGTGGACAGCTAGAAC GATTTCTCAAGCCTGGCAACGTGGGTTAGA ACTCCAACCCCTCGCACGTAGTATGGCGCTGGAGTAAAGAGCGCTCTGTTAGC AAGCGACCAGTCTCCCGAAAGTACAGGATGTGCATGTTCTAACCAAAGGGTTCGACAGGACGATGATTGCTAGTAGCTTGACAA GGCTATCCTAGTCATCCTGAATCCGGCCTATCAAAGGAATGCGTGGCAGGTCAAGTGACGAGAGTGGAAGAGCTTCCCGTTGA CAAGCGGCAAGTAGACTGTGCCTACCCGGGCTTTCCAGACCTAAGATATCTGCATTCAGCAGAGTGTGTGTTCCGGGCAGCA GTGTGCCTTCATTCGTCAACTGGAGCCTAAGGCCCAA ACTCGATCATTGATGACTACTCGACAAAAGAGGGTGGTATACAGA AAGAGGCTTGTGTCGCCGAAACGCTTATCCGCACAGTAAAACCTCCCCAGATGACCTTCTCCCTCATAATCACTTAATCTGA GCGCAGGAGGCAGGCTGTATTAATTCCGGCCTCCAACCGGACCGTGAACGACGCGACCAAGTGGTCGACGGGACATGCCAG TATTTGGCCGTTCTGCCGATTCTCAGCTAGCAAACCAAGATCGTACTACGTACGCGCCTGGATAGATCGACGGCTGTTTAATA AGAGTCACTCCAGGCCTGTGCTAGGATCAGGGCGACCATGCCAATATCAACTCAAGGACAAGTTGACGCCTGCCITCTGGGG TATGGATCAAAGCCCACGTTACCATGTAAGACCGTGTGGATTTTCGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA</p>
<p>ERCC-00099</p>	<p>GGGAATTCGAGCTCGGTACCGGGGATGCAAATGAAAGAGGAGACATTTTATCTTGTCCGTGAAGATGTATTGCCGATGCAAT GAGAAAAACATTAGAAGTCAAAAAGCTGCTTGATCGAAAAAAGCAGATTCAGTAGCAGATGCCGTTCAAAGGTCGATTTAA GTAGAAGTGCITTTTATAAATACAGGGATGCTGTTTTTCCATTCTACACCATGGTAAAAGAACAAATTTATCACACTTTTCTTT CATTTGGAGGATAGGTCAGGTGCGTTATCTCAGCTTCTTCAGGCGGTAGCTGATTCTGGAAGCAACGTTCTTTCCATTCACCA GACCATTCCGCTTCAAGGCAGAGCAAATGTGACACTGTCTATCAGTACGTCCGCATGGAAGAAGACATTCATACATTAATGAA TAAGCTCAGGAAGTTTGATTTTGTAGAAAAGTTGAAATATTAGGTTTCAGGTGCATAAGGGAGAGAAAATCGTCATGAAAGTC GGTTATTTAGGTCCAGCAGCTACATTTACACATCTAGCAGTCAGTTCTTGTITTTCAAACGGCGCCGAACATGTTGCTTACCG CACCATTCCGGAGTGTATAGATGCAGCCGTTGCAGGCGAAGTTGATTTGCTTTTGTTCCTTTGGAAAATGCTTTAGAAGGAT CTGTTAATCTAACAAATAGACTATTTAATACATGAACAGCCTTTGCCAATCGTGGGTGAAATGACGTTGCCGATTCACCAGCAC TTGCTCGTCCATCCCTCAAGAGAGAATGCATGGAAAGAGCTCGACAAAATTTACTCACATTCACACGCGATTGCGCAATGCCA TAAATTTCTTCATCGACACTTTCCTTCCGTTCCATATGAATACGCCAATTTCTACCGGGGCGGCAGCAAAGTTTGTGAGTGACC ATCCCAGCTGAATATCGGGGTCATTGCCAATGATATGGCAGCTTCTACATACGAATTA AAAATCGTGAAACGGGATATACAG GATTATAGGGACAATCATACAAGATTTGTTATCCTGTCTCCCGATGAAAACATATCTTTTGAAGTGAATTCAAAATTGAGCTC TAGGCCCAAACGACCTTAATGGTCATGCTGCCGAGGATGATCAGTCCGGGGCGCTGCATAGAGTGCTGTCTGCATTTTCTT GGAGAAATTTAAACCTGTCAAAAATTGAGTCACGTCCGACTAAAACCGGATTAGGCCATTATTTCTTTATTATTGATATTGAG AAAGCGTTTGATGATGTATTGATTCAGGGGCCATGCAGGAGCTCGAAGCACTCGGCTGCAAAGTGAGGCTTCTGGGTGCATA CAGTCTTACCAATTATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA</p>

Table S11

<p>ERCC-00104</p>	<p>GGGAATTCGAGCTCTGCAATCTCTTCAACAGCCTCTGCTAAGTATTCTGCAGCTGCTCTGCTAACTCTCTCAGCACCAGCCTT TTTTCAATATTCTCTCAAATGGTGCAACTGGAAGCTCAGCCATAATACCACCTCACAATAGATTTCCAATAAATACTGTTATAA AATCCTTTATTTAACTTTTCGGTCATTTTTTCATTTTTTTGTGAAAGTCTTTGGAAAATTTTCCACACATAAAGAAGGTATTAA AAAGTGTGACACTAAAATTATAAAAAACACTATTTATAATGTATGTCACAAATTTAAAATATAATTTTATGAAAGATAGATAA ACATAAATTGGTAGAGTTTAAATGTGATATTTATGATAATTACTATAGCTTCGGGTAAAGGAGGGGTTGGAAAACTACAACA TCAGCATCTTTAGCAGTAGCACTTGCTAAATTTGGGAAAAAAGTTTTAGCTATTGATGGAGACATATCAATGGCTAATTTAGG GATTCTATTCAATATGGAAAAGAAAAACCCCTCTTTACATGAAGTTTTGAGTGAAGAGGCAGATGTTAGGGATGCAATTTACA AACATAAACTGGAGTTTATGTATTGCCAACGAGTTTGTCTTTAGAAGTTATAAGAAATCAGATATTGATTTACTTCCAGAT GTGGTTAATGAGGTAGCTGATGATTTTGATTATGTAATTATAGATGCTCCAGCTGGGTAAATAGAGAAATGGCTACTCATTT AGCTATTGCTGATAAACTTTTACTTGTGTGTCACCCAGAGATGTTCTCAATTATTGACGCTGTTAGATTAAGAAAGTGTCTG AAATGGCTGGAACACCTTTAATGGGTGTTGTGTTAAATAGGGTTGGTAGAGATTTTGGTGAATGGGTAGAGATGAGATTGAA ATGTTAATAAAAGGTAAAGTTTTAGTTGAAGTCCCTGAAGATGAAAATGTTAGGTCAGCAGCTTTAAAAAAGATGAGTGTTAT TGAATATAGAAAAGATTCTCCAGCTTCTCAAGCTTATATGAAGTTAGCTTCAATAATAGCAGGAGTTCCTATTTACATTGAAG ATGAAATTAATAAATAAAGGAAAGAAAGCTTTATAGATAAAATTAAGAGATTATTTAGGATGTATTAATTATCTTGATTTAAA AATTTTAATTATCATCCTTTTCCAATAAAACCGTATATGTTGGGAACGCCCTCTCAATGAACCTTTCAGTAAAAGCTTCACCA AAAATGGATGCATCATCTCGCTTTGCTCGATGATGCCTCTTAGTTATCTTTCTCCAAATAAACAGTATATGTTGGGAATGCCA TCTCTATCCCTTCTTTTTCAAATTCCTCTTTTATCTTCAAATTTATTTTCATCAACGGCATTAAATAGTAATCAAATCCCATG TTTCTAACAAAGTATTCTACCCCTCAAATTTAACTCCAATCTCCATATCCCTAAAAATGCACTCTATATGGAGGGAGAGTAGC TGGATGATTTTCAACAATCTCTTTTATTATCTCCTTAGCCCTCTTAATTTTCTCTACCGGTGTGTTATAAGTTAAACCGATAG TCATTAACCCCTTCTTCTATCTCTAACTGTTAAGTTTTCAATGGCTGAATCCAACAATTCTGAGTTTGGGATAGTTATTAAA GTGTAATCAAAGTTCTAATTCGTGTGCTTCTTATTCCAATCTCCTCTACAATCCCTTCAGCCCTTTAACTTTAACCCAATG GCCTAACTAAAGGTTTTGTCAATCAATATTAATAATCCCAGCAATGAAGTTTTTTTATGGTGTCTTGCATAGCCAAAGCTAAAG CTAAACCCCTACTCCTAAACAGCCAATAAAGCAGTGATATCATAACCAACAGAGCTTAAAGCCGTTAATATACCAAGAAGT ATTGTTAATATCTTTACAACCTTTTTCAATGGCTTTATTATGTGTTTCGTTCCAACCTCTGTTTCTGTCTTTTCCGGTCAATGGAAT TAGGTAGTGTTCAAATATCCCAAAAAAAAAAAAAAAAAAAAAAAG</p>
<p>ERCC-00108</p>	<p>GGGAATTCCTCTGTGTCATGATCGTGAGTTGTGCGCAGTGTCTGTACCAATACTCTGGTGGAGCTATATAAGCCGCTGTTGCGT AAATCAACGGCATGATCCCTATGACCGCGTCATGCTAACTGATACACGCTGCTCGAACAGTGATACGCACACTGATAACTATG CGCAGACGCTTGAAACGATGTGACATCGCTTCTAGAGTATGAGCCGCAATGCACGACTGATACTCGATATGAGCAGCAGTCGG CTATGATTTGCAATGCTTGACATGATCCTGATCGTGCCTGCGATGTCTGATAATACGCTCGCATGATATGTATTGCGCTC AGATGCTGGAGATATGCCATGCGTGTGTCAGTATGCCATGTATGCTGATATGTGCGGATCTATGTGGTGACTATGAGATCCA TGTGATGACGTTGCAGTCTCTGTGACCTTATCGACGCGCATGTGAGCCTATAGACAGCGATGTGAGCACTCTCATCTGCGGAT CAGTCTATCCTCGCTGATGCTCAGTGATACACGCTGATGCACGTAGTGAGCATCCTGTGCTCGCATATACCGCTGCTGCACTG ATATGAGCCAGTGCTGCTGCTCTTACGGAGTGTGCTCGGCTATAACAGCGAGTGCTACGCCTAACTGGCTGTCTAGCACTG TAGCTGGTGCATGTACTCGACTGCCGCTGCATCTACTATAAGACTCTGACATTAGCGTATAGGCTGATACATTAGCTCGGATG CTATCAGCTTGCGCCTATTATATGCCTGACGCGGATCTATCAGAACGACTCGGTAGCTCATATACTGGATCACGGTGCCACA ACATGCTACACGAGGTCTCAGACTCTATCCCGTGGACTCAACGTGCATCTGCTATGCTGAGCGCGTATCTGTGTACCTGTCCG ATGCTCTGATCTACACTGCCGTGATCGTTATATGACGAGACTGTGCGCTCATAGCCGACACTGTGCTCGATAAGACCACGCTG TGCGGATATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA</p>
<p>ERCC-00109</p>	<p>GGGAATTCCTAGCGGAGTGTCAAATTTTCGGAAGGGGGCCATAATGTTTCTTTACAATCGCACCAGTTAGCGTGGCGTATAACCAT GTTGTTAACAGCGCCATAAGTGCCTGATCCGCGGGCAAACTACGCAACACTGTGACTGGGTGCTAGGTCGACGAACAACCTGA CGCAACTAGATCATGGGAGTGCCCAAGTAAAAATTGTGTGTCAGGGCAACAAGTGACGATAGCGCGGTAATGGTATCATG ATTGTGACCTCGGTATCTCTTGTACAGTTTACGTGACGCGAAGTCTGATCACGTTTAACTAGCTCAGGGGTATTAAATAACC GAAAGGTTTCATGTGGATGTGTGAACTTGACAGACAGAATGACCCATAGTCTTTTACCCAGGTAGCTGAGGGCGACGCACTTGAC CATCCGAATCAAACCTGAGAGATCGAAATAGCCTCACCCCTTGAACCTACAAAGCTCACTTTAGCCCGTTAAGTTGTGCAATCA CTAGATCAGAAGTCTCCCACTCAAAAAAAAAAAAAAAAAAAAAA</p>

Table S11

<p>ERCC-00111</p>	<p>GGGAATTCGCCCTAAGTTCCGGTCCGCAATTTTCGTTTCGTTGGGACGCTTGAAGCGCAAGTAGAAAACGAGATAGGGTGTCCC ATCTAAACCGCCGTGCCAATAGCTTTAAAGGCCAGGAAACATTTAATATCCCTAACACAGCAGGTCACCAACGGCATTACGA CTTTACGAGTTTCGCAGAACAAGACTTTGCAACTGCAGGGGAGCCCTTCGATGCATCCGAATGAGGGCGAGCGTCGCAGATTA ACTTCGAGCAGTTAACCAAGCAAGGATATTTCCGGCATCAAGCGTTTCTCCCTACTAATATCCTTCCTTATGTCCCGCATTAA ACAGCACTCAGCATCTCAAACAATCACAAAACAACCCACCTCATCGTTGACCAGATGATAACGTGGGACATTATCTTTGGGCA ATACCACCAAAATCGTTCTTTATGGGGTATCGCTCTTAAGCAGCGCACTTCTGCATAACTATGCCATACAGTTAGGTGCTACC ATGAACATCCCGAGCTGCGTTGCATGTATCGGGTATGCCAAGACCATACTCCAATGCTGCAGGGGTTAAATTCTCCGTTCT CGTCTAATCTAAGAGAATTGTATAGCTTGCAGGCTAACATCCTGGGTCCAACCCACATTGTAACCTTCGCTGATCCCACCAC TAATTTCTAGGGTTAGTGAAGGTTTCGATACATCGCGCATTTGGGGTCTCGGTCAAGAGGAGCGCGTAAGTAAAGACGCCTATC TTCCAGTTTGATCGGGAAACTACCCGAGGGGGATGGTGTCAATTGGGCCTCGTCTGAACACAAGAGAGATCGCACGCGGAAA CCGTTAACGCAAGAATATACAGCATATGGCATGTAAGCGAAATAACATCCTCCCCTGGGTGCACAGCGAATTAGTATCATAG TAGAATTAAGCGAGATCCATGACGTCACCGCTACTCAATCATCATCCACGTCTCGCGTCATACCCAAAAAAAAAAAAAAAAAAAA AAAAAA</p>
<p>ERCC-00112</p>	<p>GGGAATTCAGATGCCTGGATAGGTTCAAGTTACGTTTACACCGTTCCCACCCCACTAACCACGACCTTTCTCGCCTTTGTTTT ACCAACGCCGGCTAACAGGTCCGGCCCACTAATATTGTTAAGGCAGGCGTTCTGTACTTACTCGATCGTTCATAGCCCCACG ACATAGTTTTTAGTCATTACGTAGCCGTTATAGAACTCACCTGTTGTAGAAGGTTACAACCAGATCGTCTTACTTATGGCAT GCTGGCGTAGACAGGTGCCAATTTGCGGCCAGTACTCGGATGTTTCGTTGGACTGATCTGGTCTCTGTTCCCCTGGTAAAACG TCGCTTCACTCCGTAAGGGCGAATGTAATGACCGTATTCTAAGGTACGGATCTACACTATGTGCGGGCGAATAGACTCGGGC CCGTAGCGGGGAGCAAATACTTGATCGCAATCTCTGACGTCAACTGATGTGCGGGAGACTGCTGCGCACCCAATAGGTACCAC TAACGTCCGTGTGATTTTAACCGGTAGGAATAAACACCGTCTTATACAGCTACGTTTTTCGATTTACTACCGAGCCGTTTGCG AGAACATATGGATTGGGAAATAGGCTCGAGTCCACATACAGCCTACGGTAAGTTGCTAGGCTCGCAATTCTATCCGGGTTTGT GAGTCTTAGTTGTGCTCCGGCTTTTGAATGAGCATACTCATGAAAGCGCTGCTACTATGATAAGAGTACACGTACAGGTCTCG CCCATTGGATTATGGCGAGCTGCCGCAATTGACGGACATACCTTTGAACGTAATCGCGCACGAGTGCGGATTAAGATTCTCCG CTTCAATCATGCAATGTGGTACAGCTGACTATCATTGACACCAAGCCGCTTGCAGGTATCGCCTGTCCGATAAGTTAAGAGTG AGACGAAGAGTATTCATCGAGCGCCAGGTAAGATAGTGCCACTCTAAGCATCGGTATCTAGCTTTAGTAACCTTCTCGATGGG GAATACACCTCTGCTTAACGGTCTTAATAATTGACGCGTCTTGGACGTAGTACTCTGCAGTGCCTAAACTCATAGTAAACGAT CTGGTAGGTCTTTTTACACACGGTTTTTTATCGCTTAGTGCTAAAAAAAAAAAAAAAAAAAAAAAAAAAA</p>
<p>ERCC-00113</p>	<p>GGGAATTCACACCGGCGCACGCCACAGGCGTCATACTTCCAAGAAGCGGCCATAGCCCAGATGCGAGGTGAAAAGTACAC TAGAGCGACACCAACATCGTTACGTTACACACCGGACGCTTGGATCAGTGGGAAGTGCTCACGCGCGGAGCCCACTGGGCGA ACAGCAACGTTATAACGGCCACTCAGTGGTTCGTCACGCGCAGCCCCGGTTCGTCCCCTATAAGGGCCTAGTACCTTTTCGAG CCCCGCGCTACTAGGCAGATAAGAACCCTCCAGCTCGGGGCCTCAAACCGATATTCCATGTGGGCCAACTGCCATGTTGTGT CCAGTCGCTATCGGAGTAGCCGCGTGGTGCCACACGACTACAACCCTCGTAATAGGGCTGCGTGCGTCTAAATACACTCGC TGTTGAGATACTAAAATTATCTGTGGATTGCCGGCATTGAGCCCACGGTAAACCCCAAATACATAAGTGTATAATGTCTCGGA CCCGTCGCAACGGTTGTTAATATGACAGGCCGCTAAAGACGTTTCTACTCCGCCATATGAGATAATATCCTTATCTTGAGACGC ATAGCAAATGTAGGAGAGAGAGGTTAATAAGGCCTAGCCTAAAGGTTCTTGAGAGCAACATCATATACCCTGTAGAACCCGA CTTTTGGGTTTAGGGCCTGCCGTACGCTACAATTCATGCTTGAAGGTTTCACTAGATCGTGTATGGACGATGACTATAGTG TAACAGGTGCAGAGCTTAACTTTGGACACATGACACTCAGTTCTGTACCAACTAGGAAGAGCGCCGGGGTAGAAGAATAAAAA AAAAAAAAAAAAAAAAAAAA</p>

Table S11

<p>ERCC-00116</p>	<p>GGGAATTC AAGCGTTCACAGCTCGGCAATACCTGTGACGAGCTGCTCGCAAGATTTACGCAGTGTGGCTATACTTGACAGTGA TGGCGCTTACTTCAGATGTATGGGTGATACTTCGCTATATGGGTGGTCACTTCTCTATGGCGCGTGACAATGTACTATGGAGC GGTCAATGTCAGTACGGATCGCGTCGATCTAGGTGACTACGCACGCCTCTGGAGTAAATCGAGTGTCCGTGCGAAATACCGG GTCATCGTGC AATAACCGAGTCATCGTGAGTAGTATGAACGTGTCGTGTTATGCAGCGGTATGTCGTGCTATAATGGCGTCT GTCGTGCTCATAAGGTTCTCTGATGTGCTAGACGTGTCCATCGAGCTGCATAGCTATACTTCGAGTCACTTGGGATACTTCG ATAGCGTTGTGAATAGTGTGCTAGGCTCCCGGGCACGTTGTTAAACTGTTGCCGCCAATTC AAGATTAGTCCAGCTCGTACTA TCGAATACACCATCGTTCGATCGAATAATCGCACCTCGTAGGAGTCGGTTGCCACTCGTTGATAGTCAACCAGGCTCGTTAGA TAGTAGCCCAGATCCTACGAGATGAGCTACGTAAC TACAGTGATAGCATATAGGGTACGCTAGAATGCCAGGTCGTAGTTCGAA TTAGTCAGGTTGGATGTCTACTAGTTGACTTGGAGTATGCCATGAAGACTCGTCCCTCGATATCAATACTCGTCCGCAGGTGA ACACTGTAGTCGGTGCTAGTGCCACTTCTCGGTATGTGTCCTCAATTATCGAGTAGGATTCTAATCAATCGTTCGCGGCTCAC TAATTGTCTGCGGTGGCTACTAATGGTTACGGTGCCTGACTAATCGTGTAGGTGTCTAATACATCGTGATACGGGCGATATAA TGCTCGATACGGCAAATATAGCTCCGTCCGGTGGATCCAGATCGCAGGGTATCGCATCGACAGACCTGGTATCGTTCGTGACGA ACGTGCTACTCGCTTATCGGGCCTGCTACATCAGTGGCGATGTTGTAACCCCTTAGCCGATCTTCTTACTTACGAGGCTACTA TTCGATCAAAC TCGCCTATCTGGTAATAACTGCGGTGATCTGGTAGCCACTACGTGCGCCTGGTAGCAAATACGGCGAGCTGG TATCACTATCGGCTCAGTGGTCCGACATAGTGCCAGTGGTTCGCATAACTGCCGCTGGGTCCAATATAACACGCAGTCGTCA ATCATAACGAGCCGATGGTTCGGCAATAGCGCCTGTGGTGACACTATGCCACCTCTGGTCTAATATAGCGCCCTGTGGTTCGTATA ATCGAGCGCGTAATCGTATATCCGACTGTAGGTGCGTAACTCGCGACTAGGTGGCTCTAATCTGCGTTGGTTGTCGCTCACAG TGTCTGGTGTTCGATACCCGGATCGGGTTCCGTAATCTTGGCATCGAGGTTTCGTACATGTCACGCGGTCTCGTTCATTCTCG GTGGTGTCTCAGTACATCCAGTGGTGGTTCGCTACATCACACGGTATCCGGCTAAACCTCTGGGCATCCGTATTAAGCGACAT TCCTACGACTTATCAGCACGTCTACGGTATAACAAGGCGTGCTACGGTCTAACGACGCTGGTAGCAGTCTATCAGATCGCTA GTACGAGTTAGAGATGCTTAGTACGCCTTCGAATCTATGATGCTCGTGCTCACGCGATGCACTCGGATTATGGCACATGCACT CGCGTAATGACGCTGCATCGCTCAGTATGATCCATGAGCGCCGTGAATGACGCATGAGCCTCGTATCGAGTGCATGAGCTGTC TTTCACATGATACATCGCTCTAAATCATCATGCGACAGTCTCGACAGCAGCTCAGCATCTATGCATCATGTGCCTCACTAGGA CATCATGCTCGACTCTGAGACACTGATCGAGCATTAAAGACTCTAGAGCGGCCCGCCGACTAGTGAGCTCAAAAAAAAAAAAAA AAAAAA</p>
<p>ERCC-00117</p>	<p>GGGAATTCAGATACTATCAGGCGCCTATGGGCAAATCTGGCCTCCAAACTCCGAGTGTACCCGAACCGTAGGAAATTCCTTCC CCAAGCGTGTGCAATACTCGTAGCACACCCGGGATAAATAGGAAGGAAACATCCGCGGGTCTTACGGTGAAGCTGTGGGACCGC TTCTGTACACGGCGTCCAATCAAGGGGCTTGGCATTGGCCAGATCGAAAGTGTGAACCACAAACGACTCTATCGGTGACG CCTCCAAGCGGAAACTCCAGGCAATGGGGAACCGCAGAAAGATGTTCCGCTAGACCGCATTAATACCACATCTGGGCTTAGA AGCCCCCTCGGTGCTCCAGGGAGGACGGATCGGAATTAACGTGATATGGAAC TTTAACTGATCAGGCCTTGCCCTTACTAATG GCGCGTTGTAACGGGCCCTTGAGGGAATGTCACTATTGAGGCACCCGTTGACCCCTCAGAGATATACCATTCCGCCATTGTAG CTCTCCTCGTACCACAGTCTTGCAAATACTGTCATAGCTATGGAACCGCCCCGACCGGGATTATGGCCTCTCATGGACTCA GTGTGATCAGAACCTGCTCGAGTGGGGACTGGATGCAGAGCTGATCTCTGTAGTGTGTTGTGTCGCGGGAGCACCACCGGATG ACAACCGCCATATTCAGTGCCCAAATACTCACTGGTAACGGCTTGAAC TCATGCTAATTCATTATAGTTCTTTAAACATAA GCTTTGCCCTCGGGGCCATCCCCTGAACCATGCGGTGAGTCACGTACGCAGACCTGAAAATTAAGATCCGGACAGGCCCGA CCTTAGCCAAGGGTAAGAACCCTTCACTTAGTGAACATCCTATCCAGTCCGTGCAGCATCGTCTACGGTCCGGGCTTCTGCC GAAAGGTCCATTAAACAGACAGAAGGATAAATGGCTCCAGCGGATACGCGCATATTCGGTTATCGCAGTTACCGTGCAAACT GCATCCCCGCTGGGATAAGCACATGAGATGGACAAGGCTTCCTATGAGTGATTCCAAAGAACATTGCCCGACGACCGAGCCTT CAGGTAATCCACGAGACATATGCTAAC CAGTGGTGCATGGAAAAAAAAAAAAAAAAAAAAAAAAAAAA</p>
<p>ERCC-00120</p>	<p>GGGAATTCGCGCTCTCACCTGGCTTGATTCAAGTAAATGGAGCACTTGTGGGAGTGCCGCGACACAACATCCGCTAGCCTCAGT CGAATGACAAGTTAGAACAGGAGTGGGGCCGATCTCTGCAAACCTCTATTGTCAGGGGTGGTGGACGGTATAGGGTTTTGCGC CTACCTGAATGCAAGGGCTTACCTCCAACGGCTTAGATGTGCCTAGAAGGTACGCCCTTCAGTCAAGACCGGCCCGCGTTAG TTAAAGCAGGCTTGTACACATCACGTAGTTCCTGCTGCGTTTTAAGTCATTAGCTCCAGTAACCCATCAACCATTACCGTA TAGACTTATCCGAGTGTGATCAAATAACGCTGAGCCTTATGATCCTCGTCGACCCAACAACCGCCGGATATACGTTGGGATAT AAACGAAACACGTACCGCGGAGTGACACGCGTTGACGTTACATGGTAAACTCGTAGCCAACCTTAACATTCCCTGCACTATG TTAGTGCCTACAACATTAAGGGAAAAAAAAAAAAAAAAAAAAAAAAAAAA</p>

Table S11

<p>ERCC-00123</p>	<p>GGGAATTCTTAAGAGAGGAATAATTACTTTTTTCATCTTACCCACCAAGTTTTAGTTTTCTTATTCTTTCACTTAATTTTTTCGA CCTCCTCCTTTGTTAATCTTGTAGCTTTTTTAACTCCTCCAATTCTTTTTGTAACATTATTACTTTAATCCCCAGTATTATG TTGAGGAGTATGCTAATAGCCACAATTATATACAAAATCATCCTTATCTCCTCCCGAACAATCCTTTAATAAACTTAGATATG AATGATTCTTTCTTCTTCTCAAGTTGTGCTTCATATTTAGCTCCAATTAAGCTGCTATCTCCATGACTGCTTGAGCGGC TGGAGAATCTGGATACATAATAACGAGAGGTGTTCCAAATGCAGCTGCCTTCCAAACATGAGGGTCTCTGGAACAACACCTA TAACAGGAACCTTCTAAAATTGTCTCTATAGCTTTAACCCCAACTCTGTACTCTCATTTGAAACCTATTAACAATAGCCCCA ATGATGTCAGTTCCAATCTTTTTGTTATAGCGATAATTTTTAATGCATCTGATATTGGGGATATCTCTGGATTTACAACGAC AATTAACCATCTGCTGATGATATTGCTATTAAGTCTCTTTTCCAATACCTGCTGGACAGTCAATAATTAATCTCAACTA AATCATGTATTGCCTTTAAACTTCCTCAAGTTTTTCTGGTTTAGCTCTTCTGAACTTTTCTAATGAAACACCTGCTGGAATA ACTAAACTCCTTCAGGACCTTCATAAATTGCGTCCTTTATATCTGCTTTACCAGCCAACACATCGTTTAAGGTTACTGGCTT TCCTTCTAACCCCATGATAGGCTCTAAGTTTGCCATTGCTATATCAGCGTCCAAAACAGCCACTTTTTTTCCAAATTTTGCAA GAGCCACAGCAAGATTTGCAGATATCGTTGTCTTTCCAGTACCTCCTTTTCCAGATGCTATCGCGATAGCTATTCCATTAATG TCACCATTCTAAAAAAAAAAAAAAAAAAAAAAAAA</p>
<p>ERCC-00126</p>	<p>GGGAATTCGAGCTCGGAGACCGACCGCGCATTAGTCAATCATATAGTTCGATAAATGAGACGTCACGGATTTGAGTATCATT GCTAGAAGTACTTACCTATCTAAACGCTCAGGTATGCCTGCGCTGAGACTCAGCATCTCAATGTGACCGAGCTTGTGACTCCG CATCCTCCTGCAATATACCCATCGGCCCTCACGGGGTAACGTAGCTCTTCTGCGTACACCTGGCTAGAGGGTCTTACCGGCT GTAAGCTCACTACAATCCAGGTACAGAGTGCCTTAAACGGCCATTAGAGGGCCGCTACACCCGTCAGAATTTAAACGTATGGG CGGCGAAGCGGATAATGGTTAGACCTTCTTGCAGGGCAAATAACGATTTTGCAGTGCCTTTAAGATGGAGAATGGACA AACGCTCATTCTAGTGAGGACATCGACATCGTTACGATGCAACGTCGAGTGGCGGCATAACACTTGGCTCGGTCCTACCCGC GACAGTGAACAAAAACAGTTGCTCTACATTCGCTATGCATTTTAAACGGATATGCCTTTGCCCCCGTCCGTCATGGACGAAA AGTTTGGCTATGCGCGGAACATTATGCCGGATTACTCGTTATCGCTGGGTAATCGTCCGTTGGGCCCGCTCTTACGCGATCAG TGCCGTTAGCACATGCGCGAATAGGGCGGATTCGAAAGCATGTGCCAAATTCCCATGACCCTGTTCAGGTGAGCTGACAC TATCAGTCAAGTTGTTTCTTAAACAGGAAAAACGCTGTTTCTCCGTTTGCTTGTACCATGGGGGCAGGGAATCTTCGAGC GCGGAATGTATACACTATTATCTCATGTGCATGTCCAGAGCGGGCTAACCTAATATACCTGGTTCGATCGTCCGAGATCAGT TGGGAATAGCGGAGCGGATACGCTGGAACGCTGGGGCGTGCCAGTAACTTACTGTTCTCCAGTTCCTCCATCATGTTCCGT CTAATCCGGAGATGTGTAGCTGCATTGTGCTCCGTTGCGGTACTCCTCGACTGGGTGCCATATGGGGCTACTGGCGAGAGGAAA TTTGCTTTTGTGTATTTAGGCCCGTGGCACCTAAAAAAAAAAAAAAAAAAAAAAG</p>
<p>ERCC-00130</p>	<p>GGGAATTCGAGCTCGCATTGAAAATTCTATGGAAGAGCTAGCATCTCTGACGAAAACAGCAGACGAAAAGTACTGACCAG CGTCACACAAAAACGGAACAGGGCTGACGCCGCTACATATATAGGAAAAGGGAAGGTAGAAGAGCTGAAGGCACTCGTGGAA AGCTTGAAGCTGATCTCCTCATCTTTAATGATGAACTGTGCGCAAGTCAGCTGAAGTCATTGGCAACAGCAATTGAAGTGAAG ATGATTGACCGCACGCAATTGATATTAGATATTTTTGCAAAGCGGGCGAGAACGAGAGAAGGCAAACTTCAAATGAGCTGGC TCAGCTGCAATATGCACTGCCGCTCTGACGGGACAAGGGATCAACCTTTCCCGGCAAGGCGGAGGAATTGGGGCAAGAGGTC CCGGGAAACGAACTGGAAACCGACCGCCGATATCAGAAATCGCATTCATGAAATCAACACACAGCTTTCCACTGTCATT CGCCATAGAAGCCGATACCGTGAAGAAGAAAAGAAAACGGTGTGCTTCAAATTCGCGCTTGTGCGCTATACAAACGCAGGGAA ATCAACATGGTTCAACCGCCTGACGAGTGTGACAGCTATGAAGAAGACCTCCTGTTGCCACGCTGGACCCGATGACCAGAA AAATGGTCCTGCCAAGCGGCTACAGTGTCTTCTTTTTCAGATACAGTAGGATTTATTTCAGGATCTTCCGACGACATTGATTGCT GCATTCCGCTCAACGCTTGAAGGAAGTAAAGAAGCGGATTTAATTCTGCATTTAATTGATTCTTCAAATGAGGATTATGCGGG ACATGAAAAAACAGTGTCTTCGGCTGCTTGAAGGAGCTTGAAGCAGATGATATCCCGATGCTGACGGCTTACAATAAACGTGATC AAAACTGCCTGATTTTATACCGACCGCCGGAAGGGATCACATTATGGTCAGTGCGAAATTTGAGGACGACGCTGCAGCCTTT AAAGAAGCGATTTCAGCGCTATTTGCGCCAAGAACTGTTAACGTCTTGAATTTCTGGAAAAAAAAAAAAAAAAAAAAAAAAA</p>

Table S11

<p>ERCC-00131</p>	<p>GGGAATTCGCGCCGGATAAAGGCTTCTTCGGTACTATACAAGTTGTCTACGCACATTTGCCTTGGGTATTAAACTCTAGTAGGA GCGAAACTTGACATATCAAACCTCTCTGGAGAGGCATCTCCAGACATTACGGATGATCAGGTCTCAGCGAATCCTAGCTGTG CGGATAATTTGTGGCCCGCACACCAGCAAGACACCGCGTGTCTATTCCACAACTTCGACATATCAATAACGCAGTAACAAC GTTAAGTAGGGGGACAGGCAGTGCCTAAGGGGCTTGAGGTGCGCCGATTTCGCGATCTAATCTTAACAGACGAGGTGGCGT AAGATGTACCTCGTTCAATCTAAGTATGAATTTGTCCGCTGGGTAATGGTGAATTAAGAACATGCGTAAACGACCTCGTT GTAATTTGGGTGGCCCGTCTCGGCAAATTTGCCCTTGCAAGTGAAGCTCGGATTGGATGTCTCGTAAGGAATACTTATTGCGG GTGGTACGCAAATTCGCAACCATGTGAAGTAATGTGAGCGTACTTCACCTGCTCCGGTACAAGCCGCCATGTGCTCATGTTGG GAACCTCCTGCGTAACAACCGGACGCTTGCGAAAGTCATCCCCTATCGGTACACTATTGGAAAACATGACAAACGTATAATG CGTGATGACCGCAACAGGTGTAAGTGCACCAACTAGTATTGGCTCCTGTCCACATGGTCCGGGTTTCCGCCCCAAACATGCA AACATCCGAAAAAAAAAAAAAAAAAAAAAAAAA</p>
<p>ERCC-00134</p>	<p>GGGAATTCAGGCTTTGTTATTGGTATTGACTTACAAACAGTTAAGCCATTTGAATATGATAATGTAGTTGCAATAAAAGGAGA TTTACCTTAGAAGAAAATTTGAACAAAATTAGAGAGCTAATCCAAATGATGAAAAAAGGTGGATGTGGTTATAAGTGACG CCTCCCCTAATAAAGCGGTTATTGGGATATAGACCACGCTCGTTCAATAGATTTAGTAACTACTGCCTTACAAAAGCTACT GAGATGCTAAAAAAAAAAAAAAAAAAAAAAAAA</p>
<p>ERCC-00136</p>	<p>GGGAATTCGAGCTTTTCGACGTTTTGAAGGAGGGTTTTAAGTAATGATCGAGATTGAAAAACCAAAAATCGAAACGGTTGAA ATCAGCGACGATGCCGAATTTGGTAAGTTTTGTCTAGAGCCACTTGAGCGTGGATATGGTACAACCTCTGGGTAACCTCCTTACG TCGTATCCTCTTATCCTCACTCCCTGGTGGCGCTGTAACATCAATCCAGATAGATGGTGTACTGCACGAATTCGACAATTG AAGGCGTTGTGGAAGATGTTACAACGATTATCTTACACATTA AAAAGCTTGCAATTGAAAATCTACTCTGATGAAGAGAAGACG CTAGAAATTGATGTACAGGGTGAAGGAAGTGAACGGCAGCTGATATTACACACGATAGTGTAGAGATCTTAAATCCTGA TCTTCATATCGCGACTCTTGGTGAGAATGCGAGTTTCCGAGTTGCGCTTACTGCTCAAAGAGGACGTGGGTATACGCCTGCTG ACGCAAACAAGAGAGGGCGATCAGCCAATCGGCGTATTCCGATCGATTCTATCTATACGCCAGTTTCCCGTGTATCTTATCAG GTAGAGAACACTCGTGTAGGCCAAGTTGCAAACTATGATAAACTTACACTTGATGTTGGACTGATGGAAGCACTGGACCGAA AGAAGCAATTGCGCTTGGTTCAAAGATTTTAACTGAACACCTTAATATATTCGCTGGTTTAACTGACGAAGCTCAACATGCTG AAATCATGGTTGAAGAAGAAGATCAAAAAGAGAAAGTTCTTGAATGACAATTGAAGAATTGGATCTTTCTGTTTCGTTCT TACAACCTGCTTAAAGCGTGCGGGTATTAACACGGTTCAAGAGCTTGCGAACAAGACGGAAGAAGATATGATGAAAGTTTCGAAA TCTAGGACGCAAATCACTTGAAGAAGTGAAGCGGAGACTAGAAGAAGTGGACTCGGACTTCGCAAAGACGATTGACTAGTTT CCCTTGTGAACTAGGATTTTCCCGGTACAAAAAAAAAAAAAAAAAAAAAAAAA</p>
<p>ERCC-00137</p>	<p>GGGAATTCCAAAGCAAACCTAATGAAGCCAGACACGAGATCACAGAAAATCGCTGACTATCCCGAGTGC GCGGCGAGCTACAA TCCAAGATGATTATTTTTTCACGACCGGGCGCTGGTACAGGTATATCGCTGGTACAGATGGCGGCAAGCATCGTTGTCACCACT TCCTTACGATTTCCGTTAGAGCCGAGTGGTACAGCACGTACGTTATATATGGGAGTACGGACATGCTTCCCACCTCGTCAGC CAAGATGATAGATACCCGTAGCGTGATGGTCTTATAGCTGCTCTGATGGACTTCGAAAGATCACCGTGCAGCTATTCAAAAA GCAGCCGGGAAAAGGTGGTCTCGCCGAAAGCCATGACCTCCGATCACTCCTGGCCGGTAGTCCGTTTATTGCATATTGTAC AGTTGCGCGCGCGGACAGTACATCCCCCTGGTTAAATAGAGGCACGAGCGCTCGTTTTTGGGTGATCAATATGGCTTACCCC CGAGAGAGTTGTGAGCTTGACGAAAAAAAAAAAAAAAAAAAAAAAAA</p>
<p>ERCC-00138</p>	<p>GGGAATTCCTGCTAAAAGAGGTTGGTTGTATAAGATTTGGAGAATTTATCTTAGCCTCTGGTAAAAAAGTAACTACTACAT AGACATAAAAAAAGCCACCACAAACCCAGAAAATTTAAAGTTAGTTGGAGAAATTTATGCTGAGCAAATAAAGGATGAAGATG TAAAAGTTGCTGGAGTAGAGCTTGGTTCTGTCCCTATAGCTACAGCTGTCTCAATTATTGCTCAAAAACCACTATTAATTGTT AGAAAAGAACCTAAGGATTACGGAAGTAAATAAGATAGAAGGAGAGCTAAAAGAAGGAGATAAGGTTGTTATTGTGGAGGA TGTTACTACAACCTGGAGGAAGTGTGCTAAAGGCAGTTAAAGAGATTAGGGAAAATGGTGAATTTGTTGATAAAGTTTTTGTG TTGTTGATAGGTTAGAAGGAGCTAAAGAAAACCTACAAAAAGAGAATGTTGAATTAATCCATTAGTTACTGTTAAGGAGCTA CAATCCACTCAATAAATCTAAAACCTCTTAGTCCATAGGGGAAACCCCTATTGGGATACTCCCCGTCCATTAAGTTGCTCCT TTCAGGAGCAATTAATGTCCATTTAAGCTTATAATCCACTCAATAAATCTAAAACCTTCTTAGTTTTCTTTTTTAAACCTT ACCAAATTTCTCTAATTTGCTAACATCTACATTTTTATCCTTTAAAATTTCTTTTATTGGTTCTATGAGTGCAATTTTTTTAA GTAAGTCTTCAATATCCTTCTTTTTGAAGTTAAATCTTTCCACAGCATCCAGTTCGTAATTAAGTATAAAGCAACTCCACCA ATGTTCTTTAAAGGAATCTGATATTTGGCAACTCCTCCTCAATTTAAATTTAAATCTAAAACATCCACACAATTAATCCC ATCAACACTCATCAAGATAAAAAATCCTCTCTGTGGAGTAATCATAATAGATGGGAACAAATTACTCCTTGCCCTTCATCTGG TGTTTGGATAAAAAAAAAAAAAAAAAAAAAAAAAA</p>

Table S11

<p>ERCC-00142</p>	<p>GGGAATTCACCTGTCACATTTCCAATCGGCTCCAGGAAGAGAGAAGTGACGGCTTGATCCTGTAGTAATCCGGGATCGACTT AAGGGGTGCAGCGACCACGGCGGATCGGGCGTCGCAATAGTCCTCCTGTTAGGAGGGTCCTTCTAATGTTAACGCCGAATAT TAGTCATATTTTGTAGCGCCTATCAGCGTAAGATATGATTTAAGTTACACCAGGAGAGTAGCGAGATAGAACCCTCGTTGG ATCGGTCTTTCTTAATTGACTACTATCAGATCCGGCGCATGGCGCTGAGGTCAAACCTACATTACAGGCCCTGGTTTCCATGGG TCAGCGCAAGTACAGGCGAGCAGATACAACCTTCCGGAGACTTCGCCTCCACACACCGGAGACCCTAACCGTACCCAAATGTA ACTAGCGCCTCTGGTGTGAGCTTACTAGAAAAGTAGGCCGGCGGTCGACAGGAGGTTGCGCCAAAAAAAAAAAAAAAAAAAA AAA</p>
<p>ERCC-00143</p>	<p>GGGAATTCATGCAGCGTAGGTATCGACTCTCACTGTGGAGTCGTCTATGATGTCGTGGAGTCCTCTCAGAGTGCTGTAGGTCC TCATAGGTCTGTGCTGTCTCTACACGCGTGCCTGAGTCTACATTTCTGCGAGTTGGTGCTCTCACTGCGGTGTCAGTGATCT CTCCGCGTGTGACATGAGTCTAGCTTCGCGGTTCATGGTCTATCCCAGCGATGGATGAGACTACTCTGTACTAGATGGTCATGC CTGCGAATGAGTCGTGAGTGCACCAATGTCTCGATAGTGCGCCGAATGTGTCTGTAATGCCTCGAATGTGTAATCGTCAACT CGTATGTGAAGTGCTAGGCTAGTATTGACATCTACGGGCGGCTATTGACGAACCTCCGGTATATGCTCTACATCTGCAGGGA ATTGCCGACCATATATGGGTCTTGCTGATACGCTAGGGTGTCTGCTACTTAGATAGGCGTCTTGCCGCTATTTCGCGGCGTGT CTCAGAATATGCGCGACGTGTCTGGTATATGGCGACTGTGTCCGTCTATACGCATACTGGTCCACATATAGACATACTTCCAC GACATGACAAAGCGTGTCTCTACATAGCACGAGCGTCTCCTAAATAGATCCGGTCTTATCGCTGAATGTCTAGGATTCTCGTC AATGATCTACGATCCTCGCTAAGTATTACGCCACCTCGTATAGTATTGCGCGACCTGAGGATTTATTCACCTGACTCGCGTAT AATATGCCGTCACCTAGTCTAAAAAAAAAAAAAAAAAAAAAAAAAAAA</p>
<p>ERCC-00144</p>	<p>GGGAATTCAGCTAGGATAAATTGACCCGTATGAACTGTTGCCGGCTCGGAAATGTTAAGGCTCTGCGCACGCACTTTATCATT CGCAGCCTGTTCTGTCAGCGGGTACGCTAGGTTACGGTGAACCACTCGGTATCGTGCAGACAGGGATCGTAAGGCGATCCA GCCGGTATACCTTAGTCACATATACTATCGTAATATTGGCGGTTGCTGACAAGTAAATACGGCTAAACCGGTGCTTGACCAAC CACTCTCGCGGGGGTCATAAATATCACTGAGCCCGGGAAGTACCCCGTGACAGACATACGAAAAGCGTGATAACGTATTTCGTA GGTATTATTTCCGTTAGCTGGAGGTAAAGGGGTTCTGGTCTAGCCGTGTTATGTCTATTTATGAGATGGTAAGCTCGTCACC AACTCGTCACGCGATCGAAATAGCTTGGACTAATGTCCGGCACATAATCAAGTCTACATCAATCATGAATGGTTTCTGATTTG CTACCATCAGATATCATGTGAGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAA</p>
<p>ERCC-00145</p>	<p>GGGAATTCCTGTCCTTTTCATCCATAAGCGGAGAAAGAGGGAATGACATTTGTTCTTACACGGCACAAGCAGACAAAATCAACA TGGTCATTTAGAAATCGGAGGTGTGGATGCTCTCTATTTAGCGGAGAAATATGGTACACCTCTTTACGTATATGATGTGGCTT TAATACGTGAGCGTGCTAAAAGCTTTAAGCAGGCGTTTATTTCTGACGGGCTGAAAGCACAGGTGGCATATGCGAGCAAAGCA TTCTCATCAGTCGCAATGATTCAGCTCGCTGAGGAAGAGGGACTTTCTTTAGATGTGCTATCCGGAGGAGAGCTATATACGGC TGTTGACAGCAGGCTTTCCGGCAGAACGCATCCACTTTTCATGGAACAATAAGAGCAGGGAAGAAGTGCAGGATGGCGCTTGAGC ACCGCATCGGCTGCATTGTGGTGGATAAATTTCTATGAAATCGCGCTTCTTGAAGACCTATGTAAGAAACGGGTCACCTCCATC GATGTTCTTCTTCGGATCACGCCGGAGTAGAAGCGCATAACGCATGACTACATTACAACGGGCCAGGAAGATTCAAAGTTTGG TTTCGATCTTCATAACGGACAACTGAACGGGCCATTGAACAAGTATTACAATCGGAACACATTCAGCTGCTGGGTGTCCATT GCCATATCGGCTCGCAAATCTTTGATACGGCCGTTTTGTGTTAGCAGCGGAAAAAATCTTCAAAAACTAGACGAATGGAGA GATTCATATTCATTTGTATCCAAGGTGCTGAATCTTGGAGGAGGTTTCGGCATTTCGTTATACGGAAGATGATGAACCGCTTCA TGCCACTGAATACGTTGAAAAAATTATCGAAGCTGTGAAAGAAAATGCTTCCCCTTACGGTTTTGACATTCCGGAAATTTGGA TCGAACCGGGCCGTTCTCTCGTGGGAGACGCAGGCACAACTCTTTATACGGTTGGCTCTCAAAAAGAAGTGGATAAGCTGTAC AATCGTTTCATCATTCGGCGTGCGAATTAAAAAAAAAAAAAAAAAAAAAAAAAAAAA</p>
<p>ERCC-00147</p>	<p>GGGAATTCCTTGCTTAACCTTAATCTTGCCTTATTACAATATTTTTAGAAAAATAAAAAGTAAAAATAAAGCAAATCCTTA ATCTTTGGTGATATTGATGGAGAGGTATGAAATCCCTAAAGAGATTGGAGAAATAATGTTTGGCTTGTGTCTCCAGATTACA TAAGACAGATGTCAGTTGCTAAGATAGTTACACCAGACACTTATGATGAAGATGGTTATCCAATAGATGGAGGTTAATGGAC ACAAGATTGGGAGTTATAGACCCAGGTTTGTGTTGCAAAACATGTGGAGGAAGGATTGGAGAGTGTCCAGGGCATTTTGGGCA TATAGAGTTGGCTAAACCAGTAATTCATATAGGATTTGCCAAAACAATATACAAGATATTGAAGGCAGTTTGGCCACACTGTG GAAGAGTAGCAATAAGTGAACCTAAGAGGAAAGAAATTTTGGAAAAGATGGAAAAATTAGAGAGAGATGGAGGAAACAAGTGG GAGGTTTGTGAAGAGGTTTATAAAGAAGCTTCAAAGTTACAATCTGCCACACTGTGGAGAGATAAAGTATGATATAAAGTT TGAGAAACCAACAACCTACTACAGAATTGATGGAATGAGGAAAAAACATTAACCTCCATCAGATGTTAGAGAGATTTTAGAGA AGATTCCAGATGAAGATTGTATCTTACTCGGCTTAAACCCAGAGGTTGCAAGGCCAGAGTGGATGGTTCTCACCGTTTTGCCA GTTCCACCAGTAACTGTAAGGCCATCAATTACCTTGGAACTGGAGAGAGAAGTGAAGACGATTTAACCCACAAGTTAGTTGA TATCATCAGAATCAACAATAGATTAGAGGAGAATATAGAAGGAGGAGCACCAAACCTAATTATTGAGGATTTATGGAATCTGT TGCAGTATCACGTAATACTACTTTCGATAACGAAGCTCCAGGATTTCCACCAGCTAAGCACAGAAGTGAAGACATTAAAAA CCTTAGCTCAGAAAAAAAAAAAAAAAAAAAAAAAAAAAA</p>

Table S11

<p>ERCC-00148</p>	<p>GGGAATTCATCTCCATTTGGTCACGTTTACAACCGGAGTAGACGGCCATAGCAGGAGGGGTGTGCGACAGGCAGGAAGCTCT CGCGGGGTCCAAGCATTGCTGCAATGGGCGTCCTTGCTCGATGTTGACCCGAAGCTCTAACTGCATTTCAAGTCCGAATCTCT AGATATCTCGAGAGCCAATGGTTAAGGAAGGGGCGTCAATTTTGC GCGGACACGCTGCAGGATGTAATGATTAAGCCGTAGTT GAATTTATGGAGCGGTGCCCGGAAAGGTATAAATCGGAGGCAGGGGTTTACGGCGTCAGGATAGTTCATAGCGTACGCAGA ACGAGAACAAGTGAGACGTGTATAGTTGCCATGCTGAGTAGACCTGGCGTCTACCCCTCCAAACGCATTCTTATGGCAAATG GAAGTAGCTTCCACAGTTTGTAAACAAGCCGTGCCTGCGCATGTTATTTACCAATGGAGAATCGAAAAAAAAAAAAAAAAAAAA AAAA</p>
<p>ERCC-00150</p>	<p>GGGAATTCAGCTTGATGTGACATCACGTCCCAATCAATTTGGTTTTACTCCCCTCGATTATGCGGAGTTATCAGTAAGAGCGG GTACCGTTCTGCTGAATGCACTATGAGGGCGACCCTTGATCTTCATTTCGTTCCATAGATGCAAAATACCCGGGTACTAGTTGGC GAAGTTTGGCTAAAAGATTGCCCACTTACTAGGTGACTGTTAACTAGAAAAGTTGCATGAGGCTGGTAAGTGAGGGGCTCAGTGA AACAGGATACACCGTACCGTGACGATTCCCGTGTGGGCTTGACATTCAGCCAGCCTCCCGCTTGTACAGAGGCAGACTGTCCG ATGCC TAGTATGTTCACTATAACGATTTCTTGGGCTAGCTAGGTGTCTTGACCCCATATTTCCAAAGATCCGAACCTGCTTGTAC TTATCAGTACGAGTTGATGCTCTTGGGGTACCTATTTTTTGGATCCGATAGTATTGGTCTGGCGTGTCTCGTAACCCCGGGC ACTAGATTATGGTGAATGGTGTGTACACACTACTTGACGGGGCGTTACCATTTTTCAGGTGGGCACAAATAGCTAAAGCCTCGT CCGCATTACGCCCCATGGCTCACGTCTCAGAGGAGGCTAGCTCGAGGTCACCCATAAGGGATTACGGAGTTACACCCATAGTA ACAGACGGAAATTGTTGATAACAGATAGTTAATACGCCTTGGCTGAGGAGACCAACGGACTTCAAAAAAAAAAAAAAAAAAAAA AAAA</p>
<p>ERCC-00154</p>	<p>GGGAATTCCTCACTAGATCAGAAGTCTCCCACTCGAGACTAATCTTGGACTATCTATGAGCACCTATTGCGCTGTGGAAGATTG CCCCTAGGTCTCTGGCGGCTCCGATTGCGGGATGAACTGGTGGTCCGAGGAGGCATATAGGAAACGATGGGCACGCGCTATT CAGACGTTATTTGGTATGGAGTAAGAGGCCGAAACTGGGCTCGATTGATGGATACTGATCAGTCAACTCAAGCGAGGATATC CATACCACCGACGGTATGGTCATTAATACCCAGTATTGACTAGTCGGAGGTCTAATTTGGAACGTATTCGCCGCACACACG AGATTCACTTACATGGACGTGAAGATTGATCGCCGGGCGACTATTATTGCACGACCTTCGCCTGCCCTCAGCTGCGCCCTTTT TGTCCACGACGCAGGCTGGACCAAGCAGCCGAGGCTGCGCTCCGGCATCAAAGTCCACGAGTTACAGCCAGCGGGTTTTAAGG GGGTATTAGCATCTCGAGTGAGTAAAAAAAAAAAAAAAAAAAAAAAAAAAA</p>
<p>ERCC-00156</p>	<p>GGGAATTCACAAGAATCCCTGCTAGCTGAAGGAGGGTCAAAC TATAACACCTTTAGCATTTCGTACAGGCAGGCTAAGTGAAT ACTAACCACCGGCAGCCCGTTGTAGTAACGTTGACCCCTGGCTCGGAGACATTTGGTGTGCTAGTACTAGGTGACTGGTA CCGATTCATAGGTCGCCATTCTCTTATCGAGAGCCCGAGGTAGACTATCTTCCAGATGATGCCATACGTTCACTCAATCGCG CGGCATGCACGGTGGGGCTACGAACTTGCTATCCATAGGCTCTAGATGTGGTAGAAAATGCTGCAGGGGTTCTGTGCAATTT GCTCGGCAACCGTGGCCGTGTATGCTTTTATATCCCGCGGTGTGATCTAGCCTTCTCGCCATATGAGGGCGCTGAGCATAGA CCCAAACCCGACTAGTCGAATCTTAGGGTTGTATGCTAGAACGGCATGGTATAAGCCGTGCTCAAAAAAAAAAAAAAAAAAAAA AAAA</p>
<p>ERCC-00157</p>	<p>GGGAATTCGGTCTTTGTACCTCCGTCAATTTGTATTAGAACCCGTGAAGGCCCAAGTAACAGGCCAGGGTTAACATGTACG GAACATACTCCTTCCACGGAAGATTGGGGATGAAAGTTGATACCCAACTTCATTAACACAAAGGCGATGTGGGCCGAGTACT GTGCTTACACCAACAGGGCGGCTCAACTGGGTTGGTAGCCAGCACTAGCTTATTCACAATTAAGGCCGTATGCATTTCTACTGC TTATCCGGTGGTATTGCAGCCAGGGCGGAAGTGAACACGCTTGTACGATGTGTTTGCATAAGCGGTTACCACAGGCGCTACT CTCGTCGATAGCCGACTACTAATATTCAGCCGGCGCCGGTAGATAGCGAGGCTTTGGGGGTAGCTTTAAGTGCGGTCTAGGCT CAGTTGACGATACTTACTTAGGCAGGGTTACAACCCTTATGATGGGGTATGAGGCACGTGGCCATTCATCCGGACCCGATGCT GTCGTGCTTCTCGTTGGCAATAGCGCGGATTAGTACAGGTGACTAGTTCAGCTGTTGTTTCGGATTCCAAGTAAGCTCGCATAG AGCTGGACTTCTCGGAACGGTCTGACGCATTCTGCATCAATACGCGGCACCGGGGTCCGATAGCATCTCGCCTTAGATCC GGCGGGGATACTTGGTCAAAGCTCACTACGGGACTAGAGTGGCTAGTGCAGATGCGCAGCGCAGATATGCTATACGAGATGA GCTTCAAATTCATGGAGTTATGACGATATAACGCTAGGATCTGACGCAGTGACACCGGTCGTGTGACAACCTGGGCTTTAAGTG AGGCATCAGAAGTATACTTTAATGGTGGCGTCCCAAATCCCGATCTTGCCACGATTGCCAAGCCGTGATGTTAGAGGCG GTCACAGCAAACCTCAGTTTACCGGTTGATGATTATACGATGCCGGAGCGAACGACTACGCTCGAAGTTTGGTTATCTAGA GCACGTCAAAAAAAAAAAAAAAAAAAAAAAAAAAA</p>

Table S11

<p>ERCC-00158</p>	<p>GGGAATTCGAGCTCTTTCAACAGATCATGGAACACGGGAGAAATAAACATTTGGATAGAAAATGTAACATTTAAAAATGATG CAAAATCATATTCCTTTAATTTAACGAATCTTAATATATGGGCAGTAAATAAATCTGCTTATGAGTTGTATTGGAATCCATTT AACAAATCTATCTGGATAGATGGGAGTAATTACACTATAACTCCAAATATTGACATACCTCCAGGAGAAGTATGGAACCTCAA AACCTACAACCTTCACATTTAGTGGAGTTCCAATCGTTTGGCAAACCTGCTCATTACACTGTCAAAAAAAGATTATATCCTTT TAAATGAAGTAAGTCAAATAGGAAGTTCCCTATGTTGTTGTTGAGGAGATTTATGTTGTGGGTAGTTATTTGATTAAGGTGACT AAGCATATTGTTCCGGATGCGGATGGGACTTATGATATTTATATAGTTGTGGAGAATATTGGTAGTGTGAAGACTCCTGAGTA TGTGTATGTTTATGATTTGATTCCTAAGAACTTCACCGTCTCAGATGAGTGGGTAAATCAATCAAGTATGTTGATTTGCTGAAG GAAATCACACCATTACAACAAATCCAAGGTATAATTTAAGCATGTGGTGGGCGTTACATGCAATATATCCAGGAGCAGATGGG GACGGTAACTGGAACGACACTGCTGAAATACTTGCAAATAAACAGTAGTCATACACTACAACTAAACGGAACCTGGCGAATT CTACCCAAGCGACGCATTTATCGTTGGTATCGACCCTACAACTCACTACTACCAACAACCTCACCAAAAATAACAACAGTAG CCGGAACAGTAGAAAACAACCTTTGAGATATTTTTAATACTGATAAACGTTATCTTTGGATTAGGTATATTAACAAAGAGGAAT ATAAGGAATAATAAATAAAGTTGGGGGATGATGATGAAGAGATTTGCATTACTCTTTATTTTCTTGCATTTATAACACCACT TTTGCAGATGTTGAGGAAAAAAAAAAAAAAAAAAAAAAAAAAAA</p>
<p>ERCC-00160</p>	<p>GGGAATTCCTTGGTTTGAATCAAATTAATAGATTGCATGCAGAAGTAGGGCTTTACAAGTTTGTTCCTAATTCGGTTG AACAAATAGCGAATGTATGATGGTCGGTCATTGCCGCAACCTGAAGCAGTGAGCGTGGTTGAGTAACCACGTAAGTCC AAGGATGGTTGCAGTAGCTAGCTCAATTGCCATTGCTGGAATAGTGTGCGTAAACCACGCACCGGGGAGCCGCTTTTCGTTGC GATAACCTCATATAGTCCCAGTCTCGACGCGAGCACCTGCAGCGTAATTAATAAGGTCAGGCTATGATTCACCACCGTGTAG GAGTTATGCGCCTTATCGCGAAGGTAGTTACTCTTGCCAGTGGGCATGAAATTGCGAGCTTGCCCTAGTAGCGTTAGTACCGT CATAAGCCACTCTAAGAGATCGAAATTTTATACAGTAGTACTAACAGCAGACCTGCAATATCAAAGTTATAAGCGCGTCGACA CGCCTCGTCTAAGAAAACTACTTCCATTAAGTTTCGAGGACAAATGCGGTCTGATTGAGTCTATAGCGAGGCCATTGCAGT GTGGTCTGCCGTGGTCCGCTCGATAATACCATGATAACTACTGACTGCGCAGTTGTAGCGACCGCAATGGGGAGTGTGTGTTT TTTATTTCAACTGCGTGGCTTATCCTACTTAGGAGTTGTGGATACCAGATTATCTCGCGGTGAAAAAAAAAAAAAAAAAAAA AAAA</p>
<p>ERCC-00162</p>	<p>GGGAATTCCTCCACAGATTCCCATGTGTCCAATTCTGAATATCTTTCCAGCTAAGTGCTTCTGCCACCAGCAACAACCTATGT TGTATTTGTTGCTTAATATACCTCTAAATTTGCTATCTTCAATGCCTTCTGGATATTTTGCTGATGTAACCTGTTACTGACCTT GCCCTCTCCTTGGCAAACAACCTCTATTCCCATTGCCTCCAAACCAGCCCTTGTGCTTTTGCTAATCTCTCATGTCTTTTAA CCTATTCTCGATTCTTCTCTAAAATAAATCTAATGCAACATTTAAGGCATAGGTTAAATTAACCTGATGGTGTGTATGGGG TTTGTTTTTCTCTTCATAGTATTTTTTATAAGCCAATAAATCTAAGTAGAAACCAACTTTGTCATCATTCTTCTAATAACT TCCCATGCCTTTTCACTGACTGTTATTGCAGCCAATCCTGGTGGAGCTGCCAAACATTTTTGAGAACCAGTAACACAGATATC ATGTGGAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAA</p>
<p>ERCC-00163</p>	<p>GGGAATTCATAGACTAGCCTGCCGGTCAATAACTGATGACGCGGAGTCAACCTGATAACCCATAGCGGAACAGTCTAACCTAC GCGAGATACGTCTTACCGCACATAGGTAACCTATTCGTGACTAGCAGGCCTTATTCCGGTGCTATGAGTATCTTACCTGGTCT AGGTATCTAATTCGTGGGTGCGGTACTACATTCGTGCGATGGGTCTCGCTTCGTCTATGAGGTCTCGTCTTCGTGAGTGCAA TGTATCCGAAGTCGTAGTGATAATATGGAAC TAGGCGGATTTGACGAACGTATGCCGCATATTCGGAACGTGCGCTGGAAAT TCGCCACCTAGATCGAAATTATCGGAACCTCGTCGCTTATTTACGAACCTTGGGAGCCGTTCTAAAGCTGAGTCTGGTTTCTT ATTAGCGAGGAGCATTTCGTGAATACTGAGCCGAATATCGTAAGACACCCGCGAGCGACTGTAAACTAATCGGGGAACCTATT ATAGGGCCGGTCCAGGTCTTGAACGACGTAAAAAAAAAAAAAAAAAAAAAAAAAAAA</p>
<p>ERCC-00164</p>	<p>GGGAATTCAGGAGCTCCAGTAGTTTTCCCTCAAAAATTCCTGATAAGATTTCAACTTTATCCTCTTCTTTTCTTGGTGTGA GAAGATGCTCTGCCCTGGTCTTCTCCTGTCAAGCTCTTTTGGATATCCTCTTCAGATAAAGGCAGATTAGTTGGACATCCAT CAACAACCTGCTCCAACAGCCTTTCCATGACTTTCTCCAAAACCTGTAACCTCTAAACATATCCCCATAGGTGTTCAATTAATGTC ACCAAAAATTTTTAATTGCTTAGTTTTACATTTAAAATAAAAAATTAATAAGTCAAAAAATAAAAAAGGTTTATCTGTAGAGA ACATCCAAGTGTGCTGGTTCCCTAACTTTAACTTTCTTTTCTCCATAATCTTCTCAACTGCCTTTCTAAAGTCATCCATTGT TACATAGTCCCTTAACTCCCTAATTGCATTCATCCCTGCCTCTGTGCAGATTGCCTTTAACTCAGCCCCTACACATCCTTCAG TCATCTTAGCTATTTCTTCTAAATTGACATCTTCCGCTAAATTCATCTTTCTTGTATGAATCTTCAATATCTCCAATCTACCC TTCTCATCAGGAGCTGGGACTTCTATGATTCTATCAAATCTTCCAGGTCTTAATATTGCAGGGTCTAAAATGTCAGGCCTGTT TGCGGCCCAATTATCTTAACATCTCCCCTTGCATCGAATCCATCCATCTCTGCCAACAACTGCATTAATGTTCTCTGAACTT CCCTATCTCCACCAGTTAAAGCGTCTGTTCTTTGCTGCAATAGCATCAATCTCATCTATGAATATGATTGAAGGAGCTTTT TCTTTAGCCAATTTGAATATATCTTTAACTAACGGAGCCCCCTCTCCAATAAATCTTAAACCAATTCAGAACCAACAACCTCT TATAAAGGTAGCATTTGTTTCTGTAGCAACAGCTTTAGCTAATAATGTCTTTCCAGTTCTGGTGGCCCGTAAAGAGAATACC TTTTGGTGGTTAAAAAAAAAAAAAAAAAAAAAAAAAAAA</p>

Table S11

<p>ERCC-00165</p>	<p>GGGAATTCGATATGCGTTACGTGAGTCTGATAGCAGTTCACCTACCTGGATATCTGATCCACTAGCTCGATCATGCTCACCCAT AGTTTATCTGCATCACTCGTACTGAAATGCTCACATCGCAGGTAGAGCAGCATCGTAGAGCGTCAAGCTGCATCCTAGCGTCA TGAGTCATAGTACCTCATGCTCACGTGATCTACCCTAGCTGACCGCTAATGACGGCAGTGCAACCTGAGATACCGACGGCATA CTGTCGTC AACGTCAGGCAATGTGTCCGAACGGCGAGCTACGTGCCTCACGGAGTAATCGCGTCCCTCTAGGTATAGTGCCG TCGGTTCAGGTCATATGTGCGGGTCTGCACATATCACGGACGTATCGCTATCAGACGGACGCTCTCGGACCTAAACCGTAG CTCTCGGCAAGATCGTCCTCGTCTCGAATATAGCGCCCTAGTGTGCAAATGTCACCGCTATCTCGTAAGGGGTCCGTCTGTT GAGTTAGGCCTCCTCTCGTTGGATGTGAGCTCGGTTGCTGGATGGTGCAGCTTACTTCGCGTACCTGCTGTTTGCATCAGTC CTCTGCATCTATAATCGCGTATCTCTCTCTAGTAGACCATATAGCCATCTAAGCGCTCGATATTCCACCTAAGTGGCGCCTAT TGAAC TAAGTGGCAGCCGAATGGACTATCGCTCCTCGATATGTACGGATAGGCCACGGCATGTACGAGCATAAGCCGAACCTGC ACGAGCATAACCCGACACTGATCTGAGAGTCGTTAAATCATCTGCGTGTCTTAGAGCTTATCGCCATGTCTGTCAACTGTACT GTCATCCTGTAACCTGTAGCGTATGTGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA</p>
<p>ERCC-00168</p>	<p>GGGAATTCCTCAATGAACTCAGCTATTCTTCTTAACAAATAACTTTCTCCAGAAAATTCAAATGTATCATCTTCAGGATTCCAC CTAAAAACATCATGTAATATAATATCATCAATTTTTGGGTCGATTCAACAATCTCAGTTATACTCTCAGTTCTTCTAACAAA TCTTCCTTTATAAATCAATCTAACCTGCATACATATGGCATTTAGTTGTTCAAGCATAATCTTTGGAATGTTTCATTGGTTTCAG CATTCAACCTCCTTATAACTGCCTCTGGGGATTTTGCCTGTATCGTTGATAACGCCAAATGTCTCTGTAGTTATTGCTTGAAAT AATATCTTCGCTCCTCACCTCTAACCTCTCCAACAATTAATAATCTGGTCTTTGCCTTAAAGCCGTTTTTAATAAATCCAT CATAGTTATTTTCATATTCTTCTCCACCGAATCCACTTCTTGTAGTTCCAGCAATCCAGTTTTTCATGATACAACCTAATTTCTG GAGTATCCTCAATAGATACGATTTTTCATTTGAGGAAGGATGAAAAGAGAGAATGCATTTAAAAGGGTGGTTTTTCCAGTAGCT ACCTCTCCAGCAACCATAATAGAATTTTTATATTCAATGAGTAACCAAAGATATGCAAGCATCTCTGGAGAAATACTCCCATA TCTTATTAATCTGTTGGCAATATAGGAGTGTGTGTGAATTTTCTTATTGTAATGTTGAACCATATCTTGAGATATCCCTTC CAAGGGTTACATTTAGCCTGTACCATCTGGGAGAGAACCATCCACTATTGGATTAGCCAATGTTAAAGATTTTCCACACCTT TGGGCTAAGGATATACAAAACGAGTCTAATTTCTTCATCAGTTTCAAATTTTATATTTGTCTTTAAATGTTTCGTATTTTCTATG AAACACATACACTGGCTTTCCAACACCTGTGCAACTGATATCCTCCAAATTTCTCATCTTTTCATAAGAGCATCTATTTCCATA TCCAATGAGGTAAAAAAAAAAAAAAAAAAAAAAAAAAAAA</p>
<p>ERCC-00170</p>	<p>GGGAATTCCTATTGGTGGAGGGGCACAAGTTGCTGAAGTTGCGAGAGGGGCGATAAGTGAGGCAGACAGGCATAATATAAGAGG GGAGAGAATTAGCGTAGATACTCTTCCAATAGTTGGTGAAGAAAATTTATATGAGGCTGTTAAAGCTGTAGCAACTCTTCCAC GAGTAGGAATTTTAGTTTTAGCTGGCTCTTTAATGGGAGGGAAGATAACTGAAGCAGTTAAAGAATTAAGGAAAAGACTGGC ATTCCCGTGATAAGCTTAAAGATGTTTGGCTCTGTTTCTAAGGTTGCTGATTTGGTTGTTGGAGACCCATTGCAGGCAGGGGT TTTAGCTGTTATGGCTATTGCTGAAACAGCAAAATTTGATATAAATAAGGTTAAAGGTAGGGTGCTATAAAGATAATTTAATA ATTTTTGATGAAACCGAAGCGTTAGCTTTGGGTTATGAAACTCCATGATTTTCATTTAATTTTTTCTTATTAATTTTCTCCTA AAAAGTTTCTTTAACATAAATAAGGTTAAAGGGAGAGCTCTATGATTGTCTTCAAAAATACAAAGATTATTGATGTATATACT GGAGAGGTTGTTAAAGGAAATGTTGCAGTTGAGAGGGATAAAATATCCTTTGTGGATTTAAATGATGAAATTGATAAGATAAT TGAAAAAATAAAGGAGGATGTTAAAGTTATTGACTTAAAAGGAAAATATTTATCTCCAACATTTATAGATGGGCATATAACATA TAGAATCTTCCCATCTCATCCCATCAGAGTTTGGAGAAATTTGTATTA AAAAGCGGAGTTAGCAAAGTAGTTATAGACCCGCAT GAAATAGCAAATATTGCTGGAAAAGAAGGAATTTTGTATGTTGAATGATGCCAAAATTTTAGATGTCTATGTTATGCTTCC TTCTGTGTTCCAGCTACAACTTAGAAACAAGTGGAGCTGAGATTACAGCAGAGAAATATTGAAGA ACTCATTCTTTAGATAA TGTCTTAGGTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAG</p>
<p>ERCC-00171</p>	<p>GGGAATTCCTGGAGATTGTCTCGTACGGTTAAGAGCCTCCGCCCGTCTCTGGGACTATGGACGGGCACGCTCATATCAGGCTA TATTTGGTCCGGTTATTATCGTTCGCGGTTACCGTAATACTTCAGATCAGTTAAGTAGGGCCATATGCCTCGGGAATAAGCTG ACGGTGACAAGGTTTCCCCCTAATCGAGACGCTGCAATAACACAGGGGCATACAGTAACCAGGCAAGAGTTCAATCGCTTAGT TTTCGTGGCGGGATTTGAGGAAAACGCGACTGTTCTTTAACCAACATCCGTGCGATTCGTGCCACTCGTAGACGGCATCTCA CAGTCACTGAAGGCTATTAAAGAGTTAGCACCCACCATTGGATGAAGCCCAGGATAAGTGACCCCCCGGACCTTGAGTTTC ATGCTAATCAAAGAAGAGCTAATCCGACGTAAAGTTGCGGCGTTGATTACGCAGGATTGCGACCAAAGAACGAGAAAAAAAAA AAAAAAAAAAAAAAAAA</p>

Table S12

Sample	Method	Number Reads (millions)	min density	min sum	min value	max width	min width	min pos with data
Comparison (K-562)	CAGE	20	5.4	81	1	300	3	0
Comparison (K-562)	RAMPAGE	20	4	60	1	300	3	0
Comparison (K-562)	STRT	20	8.8	132	1	300	3	0
Comparison (K-562)	Oligo capping	20	4	60	1	300	3	0
Comparison (K-562)	NanoCAGE-XL	6.9	9.2	138	1	300	3	0
Comparison (K-562)	GRO-cap	20	7.2	108	1	300	3	0
Comparison (MCF-7)	CAGE	13	9.2	138	1	300	3	0
Comparison (MCF-7)	Oligo capping	13	3.4	51	1	300	3	0
Comparison (mouse hippocampus)	CAGE	13	2.4	36	1	300	3	0
Comparison (mouse hippocampus)	STRT	13	6.6	99	1	300	3	0
Reproducibility (K-562)	CAGE	7	2	30	1	300	3	0
Reproducibility (K-562)	RAMPAGE	5	1	15	1	300	3	0
Reproducibility (K-562)	STRT	5	3	45	1	300	3	0
Brain-related human samples	CAGE	13	3.2	48	1	300	3	0
FANTOM5 (Temporal, Occipital)	CAGE	10	2	30	1	300	3	0
FANTOM5 (Parietal)	CAGE	6	2	30	1	300	3	0
FANTOM5 (iPS, Frontal Adult)	CAGE	20	5.4	81	1	300	3	0