

**Table legends:** comparisons between the different categories of 5'ss. A, authentic 5'ss, C; cryptic 5'ss; M, mutant 5'ss; P1 and P2, pseudo 5'ss. S&S represents the score of the various 5'ss as calculated by the Shapiro and Senapathy matrix (33,34). S&S (A–C) refers to the difference between the S&S scores of the pairs of A and C 5'ss. Dist (A–C) is the distance in nucleotides between the pairs of A and C 5'ss. Numbers in bold are those that are an exception of the general trend (see text for details). Underlined numbers in Table S1 indicate first exons. In the 'S&S (M)' columns, N/A (not applicable) refers to those mutations that eliminate most of the 5'ss, hence their S&S score cannot be calculated. Averages (AVG) and standard deviations (SD) of every group of numbers are shown at the bottom of each table. In Table S6, Splice Id indicates the unique identifier number for alternative splicing events that is provided by the ASAP database. Alt 5'ss: alternative 5'ss.

Gene	Exon	Seq A	Seq C	S&S (A)	S&S (C)	S&S (A-C)	Dist (A-C)	DG (A)	DG (C)	DG(A)-DG(C)	Exon length A	Exon length C
ABCD1	1	GAGGTGGGG	CAGGTTGGG	79.05	75.74	3.31	9	-11.2	-11.8	0.6	1286	1295
APOB	24	AAGGTA AAA	AAAGTAAAT	79.93	73.47	6.46	40	-9.8	-4.4	-5.4	146	186
AR	4	CTGGTAAGG	CAGGTGTAG	88.13	67.88	20.25	-123	-9.8	-10.7	0.9	288	165
ATM	45	CAGGTA AACT	AGAGTGACT	86.38	63	23.38	71	-11.9	-4.5	-7.4	218	289
		CAGGTA AACT	TTGGTCTTT	86.38	53.92	32.46	79	-11.9	-5.5	-6.4	218	297
BRCA1	5	AAGGTATAT	TATGTAAGA	74.52	78.01	-3.49	-22	-8.9	-7.5	-1.4	78	56
	16	TTTGTGAGT	TAGGTATTG	72.77	66.66	6.11	69	-8.8	-9.9	1.1	311	380
CFTR	4	AAGGTAATA	ATTGTAGG	79.93	71.9	8.03	-93	-9.8	-6.6	-3.2	216	123
	20	CAGGTGAGC	AAGCAACT	91.27	68.06	23.21	29	-14.1	-6.3	-7.8	156	185
COL1A1	8	CCTGTGAGT	TGGTAAGA	76.78	82.72	-5.94	96	-8.8	-9.8	1	45	141
		CCTGTGAGT	CTGGTGAGC	76.78	83.76	-6.98	186	-8.8	-9.9	1.1	45	231
	34	AAGGTGAGG	CTGGTGACA	91.62	70.33	21.29	-8	-12	-7.8	-4.2	108	100
COL3A1	16	CCTGTAAGT	GGATAAGC	79.93	71.9	8.03	23	-8.7	-6.5	-2.2	99	122
	20	CGCGTAAGT	CTGGTTATT	79.58	69.1	10.48	24	-10.1	-5.5	-4.6	54	78
	42	GATGTGAGT	CAGGTAGAA	81.5	70.5	11	30	-8.8	-11.6	2.8	108	138
COL6A1	3	GGGTGAGT	CAAGTACTT	86.21	63.35	22.86	-66	-14.2	-5.6	-8.6	201	135
COL7A1	3	AAGGTGATC	TCCGTGAGC	76.61	66.14	10.47	-104	-9.9	-6.6	-3.3	160	56
	73	AGGGTGAGG	CTGGTATTC	84.11	62.3	21.81	-62	-12	-6.8	-5.2	201	139
	95	GTGGTAGT	GGGGTCAGT	86.21	79.75	6.46	-7	-12.1	-11.9	-0.2	72	65
C3	18	TGGGTAAGG	GAAGTGAGT	83.76	81.84	1.92	-61	-12.2	-8.8	-3.4	109	48
CYP19	6	TGTGTAAGT	CAGGTA AACT	75.91	86.38	-10.47	87	-9	-11.9	2.9	115	202
CYP27A1	6	GCGGTAGGA	GTGGTGGGT	73.29	75.91	-2.62	-89	-9.5	-11.3	1.8	167	78
DMD	64	GCTGTAAGT	AAAGTAGGT	76.78	76.96	-0.18	57	-8.7	-8.4	-0.3	75	132
	26	AAGGTA AAA	GAGGTTGAT	79.93	63.17	16.76	116	-9.8	-7.6	-2.2	171	287
FAH	12	CCGGTGAGT	GAGGTGGGT	89	83.42	5.58	105	-12.1	-13.4	1.3	102	207
FBN1	46	TAGGTGCGT	GAAGTCAGT	81.5	75.39	6.11	33	-11.8	-6.5	-5.3	117	150
F5	10	CAGGTA TTT	TCTGTAAGA	75.39	70.15	5.24	-35	-11	-6.5	-4.5	215	180
FGA	4	GAGGTA AAGT	AAAGTACAG	96.85	58.11	38.74	-66	-14.1	-3.5	-10.6	146	80
		GAGGTA AAGT	AAATGTAAGA	96.85	71.9	24.95	-36	-14.1	-4.3	-9.8	146	110
		GAGGTA AAGT	GGAGTTAAG	96.85	49.73	47.12	-1	-14.1	-2.2	-11.9	146	145
		GAGGTA AAGT	TAAATATTA	96.85	72.94	23.91	4	-14.1	-4.5	-9.6	146	150
F7	7	TGGGTGGGT	TGGGTGGGT	74.69	74.69	0	37	-13.7	-13.7	0	124	161
GCK	4	AAGGTGGGC	CCTGTGAGG	80.1	72.42	7.68	-24	-11.2	-6.6	-4.6	120	96
GHV	2	TTTGTAAAG	TGGGTA AATG	70.33	69.98	0.35	12	-6.5	-10.1	3.6	161	173
HBA2	1	GAGGTGAGG	GGGGTA AAG	89.35	84.99	4.36	-49	-12	-11.9	-0.1	132	83
HBB	1	CAGGTTGGT	AAGGTGAAC	80.1	76.61	3.49	-38	-14	-9.9	-4.1	135	97
		CAGGTTGGT	GTGGTGAGG	80.1	81.84	-1.74	-16	-14	-9.9	-4.1	135	119
		CAGGTTGGT	AAGGTTACA	80.1	70.5	9.6	13	-14	-7.6	-6.4	135	148
		AGGGTGAGT	AAGGTGAAG	88.48	77.83	10.65	-135	-14.2	-9.9	-4.3	223	88
	2	AGGGTGAGT	ATGGTTAAG	88.48	63.87	24.61	47	-14.2	-5.5	-8.7	223	270
HEXA	9	GACGTGAGG	AGGGTGGGT	76.43	78.18	-1.75	17	-6.6	-13.4	6.8	87	104
HEXB	8	TTGGTAAGA	AAATGTTGGT	82.72	67.01	15.71	-4	-9.8	-6.5	-3.3	181	177
HMGCL	7	ACGGTA AAGC	GGGGTATTT	85.68	64.74	20.94	78	-9.8	-8.9	-0.9	126	204
HPRT	1	GTGGTGAGC	CAGGTGGCG	80.62	68.58	12.04	49	-9.9	-11.2	1.3	112	161
	5	GAAGTA AAGT	AAGGTA AAGC	84.99	93.54	-8.55	67	-8.7	-11.9	3.2	18	85
IDS	7	ATGGTA AAGC	CTGGTGAGT	86.03	89.35	-3.32	22	-9.8	-12.1	2.3	127	149
ITGB2	7	TTGTAAGT	AGGGTGGGG	75.21	73.82	1.39	64	-8.7	-11.2	2.5	156	220
		TTGTAAGT	GAGGTATAG	75.21	67.88	7.33	298	-8.7	-8.9	0.2	156	454
		GATGTGAGT	CAGGTGTGG	81.5	81.67	-0.17	27	-8.8	-10.7	1.9	163	190
ITGB5	1	AAGGTGAGC	AGGTTGAGG	90.4	84.11	6.29	-66	-12	-12	0	946	880
LDLR	12	GAGGTGTGG	TACGTACGA	78.53	66.31	12.22	11	-8.6	-4.5	-4.1	140	151
LPL	2	ACGGTA AAGG	ATGGTGATC	86.91	69.1	17.81	-18	-9.8	-7.8	-2	161	143
		ACGGTA AAGG	GAGGTATCC	86.91	66.84	20.07	42	-9.8	-8.9	-0.9	161	203
		ACGGTA AAGG	CAGGTGGGA	86.91	81.15	5.76	142	-9.8	-13.3	3.5	161	303
		ACGGTA AAGG	GAGGTGGGT	86.91	76.96	9.95	246	-9.8	-11.9	2.1	161	407
		ACGGTA AAGG	AGAGTGAGG	86.91	72.25	14.66	382	-9.8	-6.6	-3.2	161	543
MTHFR	4	CAGGTGAGG	AAGGCATGC	92.49	65.27	27.22	-57	-14.1	-5.4	-8.7	194	137
NF1	27b	GAGGTA AAG	AACGTTAAG	91.44	58.46	32.98	-69	-11.9	-2.2	-9.7	111	42
	28	AAAGTA AAGT	AAGGTATTC	87.26	68.93	18.33	-54	-8.7	-8.9	0.2	433	379
NF2	7	CGGGTGTGT	GATGTACGG	78.53	69.28	9.25	-28	-12.2	-3.5	-8.7	76	48
		CGGGTGTGT	ACGGTGTGA	78.53	71.9	6.63	-23	-12.2	-6.5	-5.7	76	53
		GAGGTGAGG	AAGGTGCTG	89.35	66.84	22.51	-53	-12	-8.6	-3.4	218	165
		GAGGTGAGG	GAGGTGCTG	89.35	64.57	24.78	-38	-12	-8.6	-3.4	218	180
PBGD	1	GCGGTGAGT	CAGGTTGCC	85.86	60.9	24.96	67	-12.1	-9.7	-2.4	60	127
	10	CAGGTAGGG	CGGGTGGGG	85.34	74.69	10.65	-9	-13.7	-12.6	-1.1	114	105
PGK1	4	AAGGTA AAGG	GGGGTGAGG	83.42	81.84	1.58	30	-11.6	-12	0.4	145	175
PKD1	43	AAGGTGAGG	CAGGTGGCG	91.62	68.58	23.04	-66	-12	-11.2	-0.8	291	225
PTEN	4	GAGGTAGGT	CAGGTATGA	86.56	83.76	2.8	4	-13.8	-11	-2.8	44	48
	7	AAGGTTTGT	CATGTA AAG	78.7	83.42	-4.72	75	-9.8	-8.6	-1.2	167	242
PYGM	14	ACCGTGAGT	CAGGTGAAG	75.21	78.7	-3.49	-67	-8.8	-12	3.2	148	81
RPGR	5	CTGGTGAGA	CATGTAATT	83.94	73.99	9.95	-76	-9.9	-6.5	-3.4	159	83
SERPINA1	2	AAGGTA AAGG	AGGGTACTC	94.76	61.25	33.51	-84	-11.9	-8.9	-3	650	566
TP53	5	ATGGTGAGC	GAGGTGTGTG	82.89	58.81	24.08	-46	-9.9	-7.6	-2.3	184	138
	6	GAGGTCTGG	CTGGTTTGC	72.07	66.49	5.58	5	-7.6	-5.5	-2.1	113	118
TSC2	37	AAGGTGAGT	CCGGTGAGG	95.98	84.64	11.34	-29	-14.2	-9.9	-4.3	140	111
UGT1A1	1	CAGGTGTGT	GAGGTGACT	86.03	80.1	5.93	-141	-12.9	-9.9	-3	879	738
AVG=				82.96	72.38	11.22	10.92	-10.8	-8.6	-2.4	200.03	201.58
SD=				6.31	8.53	11.78	88.93	2.0	2.9	3.9	217.44	195.18
AVG (Abs)=							62.58				160.22	174.21
											98.88	111.56

Table S1: Comparison between Authentic (A) and Cryptic (C) 5'ss.

Gene	Exon	Seq A	Seq M	S&S (A)	S&S (M)	S&S (A-M)
ABCD1	1	GAGGTGGGG	GAAGTGGGG	79.05	67.19	11.86
APOB	24	AAGGTAAAA	AAGGCAAAA	79.93	62.47	17.46
AR	4	CTGGTAAGG	CTGTTAAGG	88.13	70.68	17.45
ATM	45	CAGGTAAGT	CAGATAACT	86.38	68.93	17.45
BRCA1	5	AAGGTATAT	AGGGTATAT	74.52	67.01	7.51
	16	TTTGTGAGT	TTTGTGAGC	72.77	67.19	5.58
CFTR	4	AAGGTAATA	AAGTTAATA	79.93	62.47	17.46
	20	CAGGTGAGC	CACGTGAGC	91.27	78.35	12.92
COL1A1	8	CCTGTGAGT	CCTATGAGT	76.78	59.33	17.45
		CCTGTGAGT	CCTGTGAAT	76.78	63	13.78
	34	AAGGTGAGG	-	91.62	N/A	N/A
COL3A1	16	CCTGTAAGT	CCTATAAGT	79.93	62.47	17.46
	20	CGCGTAAGT	CGCATAAGT	79.58	62.12	17.46
	42	GATGTGAGT	GATATGAGT	81.5	64.04	17.46
COL6A1	3	GGGGTGGT	GGGATGAGT	86.21	68.76	17.45
COL7A1	3	AAGGTGATC	AGGGTGATC	76.61	69.1	7.51
	73	AGGGTGAGG	AGGGTGAGG	84.11	84.11	0
	95	GTGGTGAGT	GTAGTGAGT	86.21	74.34	11.87
C3	18	TGGGTAAGG	TGGATAAGG	83.76	66.31	17.45
CYP19	6	TGTGTAAGT	TGTGCAAGT	75.91	58.46	17.45
CYP27	6	GCGGTAGGA	GAGGTAGGA	73.29	81.15	-7.86
		GCGGTAGGA	GCAGTAGGA	73.29	61.43	11.86
DMD	64	GCTGTAAGT	GCTGTAAGT	76.78	63.17	13.61
	26	AAGGTAAAA	AAGGGAAAA	79.93	62.47	17.46
FAH	12	CCGGTGGT	CCGGTGAAT	89	75.21	13.79
FBN1	46	TAGGTGCGT	TAGATGCGT	81.5	64.04	17.46
F5	10	CAGGTATT	CATGTATT	75.39	63.17	12.22
FGA	4	GAGGTAAGT	GAGTTAAGT	96.85	79.4	17.45
F7	7	TGGGTGGGT	TGGGTGGAT	74.69	60.9	13.79
		TGGGTGGGT	TGGGTGGGT	74.69	74.69	0
		TGGGTGGGT	TGGGTACCA	74.69	58.11	16.58
GCK	4	AAGGTGGGC	-	80.1	N/A	N/A
GHV	2	TTTGTAAAG	TTTATAAGC	70.33	52.87	17.46
HBA2	1	GAGGTGAGG	GAGGCTCCC	89.35	39.61	49.74
HBB	1	CAGGTTGGT	CACGTTGGT	80.1	67.19	12.91
		CAGGTTGGT	CAGATTGGT	80.1	62.65	17.45
		CAGGTTGGT	CAGTTGGT	80.1	62.65	17.45
		CAGGTTGGT	CAGGCTGGT	80.1	62.65	17.45
		CAGGTTGGT	CAGGTTGAT	80.1	66.31	13.79
		CAGGTTGGT	CAGGTTGCT	80.1	66.49	13.61
		CAGGTTGGT	CAGGTTGTT	80.1	66.31	13.79
		CAGGTTGGT	CAGGTTGGC	80.1	74.52	5.58
	2	AGGGTGGT	AGGGTGCT	88.48	64.04	24.44
HEXA	9	GACGTGAGG	GACATGAGG	76.43	58.98	17.45
HEXB	8	TTGGTAAGA	TTGGTAACA	82.72	69.1	13.62
HMGCL	7	ACGGTAAGC	ACGCTAAGC	85.68	68.23	17.45
HPRT	1	GTGGTGAGC	GTGGTGAAC	80.62	66.84	13.78
		GTGGTGAGC	GTGGTGATC	80.62	66.84	13.78
		GTGGTGAGC	-	80.62	N/A	N/A
	5	GAAGTAAGT	GAAGGAAGT	84.99	67.53	17.46
		GAAGTAAGT	GAAGTGTGT	84.99	71.02	13.97
		GAAGTAAGT	GAAGTAAAT	84.99	71.2	13.79
		GAAGTAAGT	GAATAAGTT	84.99	26	58.99
IDS	7	ATGGTAAGC	ATTTTAAGC	86.03	56.36	29.67
ITGB2	7	TTCGTAAGT	TTCATAAGT	75.21	57.76	17.45
ITGB3	4	GATGTGAGT	GATATGAGT	81.5	64.04	17.46
KRT5	1	AAGGTGAGC	AAGATGAGC	90.4	72.94	17.46
LDLR	12	GAGGTGTGG	GAGGCGTGG	78.53	61.08	17.45
LPL	2	ACGGTAAGG	ACGATAAGG	86.91	69.45	17.46
MTHFR	4	CAGGTGAGG	CAGATGAGG	92.49	75.04	17.45
NF1	27b	GAGGTAAGA	-	91.44	N/A	N/A
	28	AAAGTAAGT	AAAATAAGT	87.26	69.8	17.46
NF2	7	CGGGTGTGT	-	78.53	N/A	N/A
		CGGGTGTGT	CGGGTGTAT	78.53	64.74	13.79
	12	GAGGTGAGG	-	89.35	N/A	N/A
		GAGGTGAGG	GAGATGAGG	89.35	71.9	17.45
PBGD	1	GCGGTGAGT	GCGATGAGT	85.86	68.41	17.45
		GCGGTGAGT	GCGGAGAGT	85.86	68.41	17.45
		GCGGTGAGT	GCGGTGACT	85.86	72.25	13.61
		GCGGTGAGT	GCGGTTAGT	85.86	79.4	6.46
	10	CAGGTAGGG	CATGTAGGG	85.34	67.88	17.46
PGK1	4	AAGGTAGGA	AAGTTAGGA	83.42	65.96	17.46
PKD1	43	AAGGTGAGG	Not specified	91.62	N/A	N/A
PTEN	4	GAGGTAGGT	GAGGCAGGT	86.56	69.1	17.46
	7	AAGGTTTGT	AAGATTGT	78.7	61.25	17.45
PYGM	14	ACCGTGAGT	ACCATGAGT	75.21	57.76	17.45
RPGR	5	CTGGTGAGA	CTGTTGAGA	83.94	66.49	17.45
SERPINA1	2	AAGGTAAGG	AAGTTAAGG	94.76	77.31	17.45
TPS3	5	ATGGTGAGC	ATGGTGACC	82.89	69.28	13.61
	6	GAGGTCTGG	GAAGTCTGG	72.07	60.2	11.87
		GAGGTCTGG	GAGATCTGG	72.07	54.62	17.45
TSC2	37	AAGGTGAGT	AAGGATGAG	95.98	43.63	52.35
UGT1A1	1	CAGGTGTGT	CAGCTGTGT	86.03	68.58	17.45
AVG=				82.96	65.59	16.40
SD=				6.31	8.71	9.20

Table S2: Comparison between Authentic (A) and Mutant (M) 5'ss.

Gene	Exon	Seq M	Seq C	S&S (M)	S&S (C)	S&S (C-M)
ABCD1	1	GAAGTGGGG	CAGGTGGG	67.19	75.74	8.55
APOB	24	AAGGCAAAA	AAAGTAAAT	62.47	73.47	11.00
AR	4	CTGTAAAGG	CAGGTGTAG	70.68	67.88	-2.80
ATM	45	CAGATAACT	AGAGTGACT	68.93	63	-5.93
		CAGATAACT	TTGGCTTT	68.93	53.92	-15.01
BRCA1	5	AGGGTATAT	TATGTAAGA	67.01	78.01	11.00
	16	TTTGTGAGC	TAGGTATTG	67.19	66.66	-0.53
CFTR	4	AAGTTAATA	ATTGTGAGG	62.47	71.9	9.43
	20	CACGTGAGC	AAGGCAACT	78.35	68.06	-10.29
COL1A1	8	CCTATGAGT	TTGGTAAGA	59.33	82.72	23.39
		CCTATGAGT	CTGGTGAGC	59.33	83.76	24.43
		CCTGTGAAT	CTGGTGAGC	63	82.72	19.72
		CCTGTGAAT	CTGGTGAGC	63	83.76	20.76
	34	-	CTGGTGACA	N/A	70.33	N/A
COL3A1	16	CCTATAAGT	GGAGTAAGC	62.47	71.9	9.43
	20	CGCATAAGT	CTGGTTATT	62.12	69.1	6.98
	42	GATATGAGT	CAGGTAGAA	64.04	70.5	6.46
COL6A1	3	GGGATGAGT	CAAGTACTT	68.76	63.35	-5.41
COL7A1	3	AGGGTGATC	TCCGTGAGC	69.1	66.14	-2.96
	73	AGGGTGAAG	CTGGTATTC	84.11	62.3	N/A
	95	GTAGTGAAGT	GGGTCAGT	74.34	79.75	5.41
C3	18	TGGATAAAGG	GAAGTGAGT	66.31	81.84	15.53
CYP19	6	TGTGCAAGT	CAGGTAACCT	58.46	86.38	27.92
CYP27	6	GAGGTAGGA	GTGGTGGGT	81.15	75.91	-5.24
		GCAGTAGGA	GTGGTGGGT	61.43	75.91	14.48
DMD	64	CCTGTAACCT	AAAGTAGGT	63.17	76.96	13.79
	26	AAGGGAAAA	GAGGTGTAT	62.47	63.17	0.70
FAH	12	CCGCTGAAT	GAGGTGGGT	75.21	83.42	8.21
FBN1	46	TAGATCGGT	GAAGTCAGT	64.04	75.39	11.35
F5	10	CATGTATT	TCTGTAAGA	63.17	70.15	6.98
FGA	4	GAGTTAAGT	AAAGTACAG	79.4	58.11	-21.29
		GAGTTAAGT	AATGTTAGA	79.4	71.9	-7.50
		GAGTTAAGT	GGAGTTAAG	79.4	49.73	-29.67
		GAGTTAAGT	TAAGTATTA	79.4	72.94	-6.46
F7	7	TGGGTGGAT	TGGGTGGGT	60.9	74.69	13.79
		TGGGTGGGT	TGGGTGGGT	74.69	74.69	0.00
		TGGGTACCA	TGGGTGGGT	58.11	74.69	16.58
GCK	4	-	CCTGTGAGG	N/A	72.42	N/A
GHV	2	TTTATAAGC	TGGTAAATG	52.87	69.98	17.11
HBA2	1	GAGGCTCCC	GGGTAAGG	39.61	84.99	45.38
HHB	1	CACGTGGT	AAGGTGAAC	67.19	76.61	9.42
		CACGTGGT	GTGGTGAGC	67.19	81.84	14.65
		CACGTGGT	AAGGTTACA	67.19	70.5	3.31
		CAGATGGT	AAGGTGAAC	62.65	76.61	13.96
		CAGATGGT	GTGGTGAGG	62.65	81.84	19.19
		CAGATGGT	AAGGTTACA	62.65	70.5	7.85
		CAGTTGGT	AAGGTGAAC	62.65	76.61	13.96
		CAGTTGGT	GTGGTGAGG	62.65	81.84	19.19
		CAGTTGGT	AAGGTTACA	62.65	70.5	7.85
		CAGGCTGGT	AAGGTGAAC	62.65	76.61	13.96
		CAGGCTGGT	GTGGTGAGG	62.65	81.84	19.19
		CAGGCTGGT	AAGGTTACA	62.65	70.5	7.85
		CAGGTTGAT	AAGGTGAAC	66.31	76.61	10.30
		CAGGTTGAT	GTGGTGAGG	66.31	81.84	15.53
		CAGGTTGAT	AAGGTTACA	66.31	70.5	4.19
		CAGGTTGCT	AAGGTGAAC	66.49	76.61	10.12
		CAGGTTGCT	GTGGTGAGG	66.49	81.84	15.35
		CAGGTTGCT	AAGGTTACA	66.49	70.5	4.01
		CAGGTTGTT	AAGGTGAAC	66.31	76.61	10.30
		CAGGTTGTT	GTGGTGAGG	66.31	81.84	15.53
		CAGGTTGTT	AAGGTTACA	66.31	70.5	4.19
		CAGGTTGGC	AAGGTGAAC	74.52	76.61	2.09
		CAGGTTGGC	GTGGTGAGG	74.52	81.84	7.32
		CAGGTTGGC	AAGGTTACA	74.52	70.5	-4.02
	2	AGGGTGTCT	AAGGTGAAG	64.04	77.83	13.79
	9	AGGGTGTCT	ATGGTTAAG	64.04	63.87	-0.17
HEXA	9	GACATGAGG	AGGTTGGT	58.98	78.18	19.20
HEXB	8	TTGGTAACA	AATGTTGTT	69.1	67.01	-2.09
HMGCL	7	ACGCTAAGC	GGGTTATT	68.23	64.74	-3.49
HPRT	1	GTGGTGAACT	CAGGTGGC	66.84	68.58	1.74
		GTGGTGATC	CAGGTGGC	66.84	68.58	1.74
		-	CAGGTGGC	N/A	68.58	N/A
	5	GAAGGAAGT	AAGGTAAGC	67.53	93.54	26.01
		GAAGTGTT	AAGGTAAGC	71.02	93.54	22.52
		GAAGTAAAT	AAGGTAAGC	71.2	93.54	22.34
		GAATAAGTT	AAGGTAAGC	26	93.54	67.54
IDS	7	ATTTAAGC	CTGGTGAGT	56.36	89.35	32.99
ITGB2	7	TTCATAAGT	AGGGTGGG	57.76	73.82	16.06
		TTCATAAGT	GAGGTATAG	57.76	67.88	10.12
ITGB3	4	GATATGAGT	CAGGTGGG	64.04	81.67	17.63
KRT5	1	AAGATGAGC	AGGGTGAGG	72.94	84.11	11.17
LDLR	12	GAGGCTGGG	TACGTACGA	61.08	66.31	5.23
LPL	2	ACGATAAGG	ATGGTATC	69.45	69.1	-0.35
		ACGATAAAG	GAGGTATCC	69.45	66.84	-2.61
		ACGATAAAG	CAGGTGGGA	69.45	81.15	11.70
		ACGATAAAG	GAGGTTGGT	69.45	76.96	7.51
		ACGATAAAG	AGAGTGAGG	69.45	72.25	2.80
MTHFR	4	CAGATGAGG	AAGGCATGC	75.04	65.27	-9.77
NF1	27b	-	AACGTTAAG	N/A	58.46	N/A
	28	AAAATAAGT	AAGGTATTC	69.8	68.93	-0.87
NF2	7	-	GATGACGG	N/A	69.28	N/A
		-	ACGGTGTGA	N/A	71.9	N/A
		CGGGTGTAT	GATGACGG	64.74	69.28	4.54
		CGGGTGTAT	ACGGTGTGA	64.74	71.9	7.16
	12	-	AAGGTGCTG	N/A	66.84	N/A
		GAGATGAGG	GAGGTGCTG	N/A	64.57	N/A
		GAGATGAGG	AAGGTGCTG	71.9	66.84	-5.06
		GAGATGAGG	GAGGTGCTG	71.9	64.57	-7.33
PBGD	1	CCGATGAGT	CAGGTTGCC	68.41	60.9	-7.51
		CCGGAGAGT	CAGGTTGCC	68.41	60.9	-7.51
		CCGGTGGT	CAGGTTGCC	72.25	60.9	-11.35
		CCGGTGGT	CAGGTTGCC	79.4	60.9	-18.50
	10	CATGTAGGG	CGGGTGGG	67.88	74.69	6.81
PKKI	4	AAGTTAGGA	GGGGTGAGG	65.96	81.84	15.88
PKDI	43	Not specified	CAGGTGGC	N/A	68.58	N/A
PTEN	4	GAGGCAGGT	CAGGTATGA	69.1	83.76	14.66
	7	AAGATTGT	CATGTAAGG	61.25	83.42	22.17
PYGM	14	ACCATGAGT	CAGGTGAAG	57.76	78.7	20.94
RPGR	5	CTGTTAGGA	CATGTAAT	66.49	73.99	7.50
SERPINA1	2	AAGTTAAGG	AGGTAACCT	77.31	61.25	-16.06
TP53	5	ATGGTACG	GAGGTGTG	69.28	58.81	-10.47
	6	GAAGTCTGG	CTGGTTGC	60.2	66.49	6.29
		GAGATCTGG	CTGGTTGC	54.62	66.49	11.87
TSC2	37	AAGGATGAG	CCGGTGAGG	43.63	84.64	41.01
UGT1A1	1	CACGCTGTG	GAGGTGACT	68.58	80.1	11.52
AVG=				65.59	72.38	7.98
SD=				8.71	8.53	13.60

Table S3: Comparison between Mutant (M) and Cryptic (C) 5'ss.

Gene	Exon	Seq A	S&S (A)	Seq P1	S&S (P1)	Dist (A-P1)	Seq P2	S&S (P2)	Dist (A-P2)	S&S (A-P1)	S&S (A-P2)
ABCD1	1	GAGGTGGGG	79.05								
APOB	24	AAGGTAATA	79.93								
AR	4	CTGGTAAGG	88.13	GAAGTGGGA	66.14	15	CAAGTGGGCC	69.11	-20	21.99	19.02
ATM	45	CAGGTAAGT	86.38	TGAGTGAGT	73.12	48	GAAGTAGGT	74.69	-37	13.26	11.69
BRCA1	5	AAGGTATAT	74.52	TTGGTAATG	69.98	12				4.54	
	16	TTGTGAGT	72.77	TATGTAGGT	73.12	65	AGGGTCAAC	62.65	-51	-0.35	10.12
CFTR	4	AAGTAATA	79.93	TAGGTAGTG	67.19	81				12.74	
	20	CAGGTGAGC	91.27								
COL1A1	8	CCTGTGAGT	76.78								
	34	AAGGTGAGG	91.62								
COL3A1	16	CCTGTAAGT	79.93								
	20	CGCGTAAGT	79.58	GTGGTGAAC	66.84	-8				12.74	
	42	GATGTGAGT	81.5	CTGGTGAAC	69.98	-17	CTGGTACAG	63.35	-26	11.52	18.15
COL6A1	3	GGGGTGAGT	86.21	GGGGTTGGC	63.87	63	CTCGTGGGG	61.78	-5	22.34	24.43
COL7A1	3	AAGGTGATC	76.61								
	73	AGGGTGAGG	84.11	AGAGTGAGG	72.25	25	GGGGTGTGG	71.02	-32	11.86	13.09
	95	GTGGTGAGT	86.21								
C3	18	TGGGTAAGG	83.76	AGAGTCAGA	64.74	37	CCGGTACAA	61.95	20	19.02	21.81
CYP19	6	TGTGTAAGT	75.91	AAAGTATGA	71.02	-15	TAAGTAATA	64.57	4	4.89	11.34
CYP27A1	6	GCGGTAGGA	73.29	CAGGTGGGC	80.97	81	TGGGTGTGG	69.8	-85	-7.68	3.49
DMD	64	GCTGTAAGT	76.78								
	26	AAGGTAATA	79.93	TAAGTAATA	64.57	25				15.36	
FAH	12	CCGGTGAGT	89								
FBN1	46	TAGGTGCGT	81.5								
F5	10	CAGGTATT	75.39	GAAGTAACC	65.79	16				9.6	
FGA	4	GAGGTAAGT	96.85								
F7	7	TGGTGGGT	74.69								
GCK	4	AAGGTGGGC	80.1								
GHV	2	TTTGAAGC	70.33								
HBA2	1	GAGGTGAGG	89.35	ATGGTCCGG	73.12	-19	AAGGTCCGG	73.63	-44	16.23	15.72
HBB	1	CAGGTGGT	80.1								
	2	AGGGTGAGT	88.48								
HEXA	9	GAGGTGAGG	76.43								
HEXB	8	TTGGTAAGA	82.72								
HMGCL	7	ACGGTAAGC	85.68	CTGGTGGCG	61.08	20				24.6	
HPRT	1	GTGGTGAGC	80.62								
	5	GAAGTAAGT	84.99								
IDS	7	ATGGTAAGC	86.03								
ITGB2	7	TTCGTAAGT	75.21								
ITGB3	4	GATGTGAGT	81.5								
KRT5	1	AAGGTGAGC	90.4	ACTGTGGGT	65.61	30	TGGGTCTGA	62.3	34	24.79	28.1
LDLR	12	GAGGTGTGG	78.53								
LPL	2	ACGGTAAGG	86.91								
MTHFR	4	CAGGTGAGG	92.49								
NF1	27b	GAGGTAAGA	91.44								
	28	AAAGTAAGT	87.26								
NF2	7	CGGGTGTGT	78.53								
	12	GAGGTGAGG	89.35	GGAGTCAGA	62.47	-12				26.88	
PBGD	1	GCGGTGAGT	85.86	CCGGTGACC	69.8	15	TTGGTAACG	70.15	-26	16.06	15.71
	10	CAGGTAGGG	85.34								
PGK1	4	AAGGTAGGA	83.42	CCTGTGATT	63	9				20.42	
PKD1	43	AAGGTGAGG	91.62	CCGGTGGGC	73.12	15				18.5	
PTEN	4	GAGGTAGGT	86.56								
	7	AAGGTTTGT	78.7	GTGGTGATA	67.01	-50	CCTGTGTGT	65.96	-57	11.69	12.74
PYGM	14	ACCGTGAGT	75.21								
RPGR	5	CTGGTGAGA	83.94								
SERPINA1	2	AAGGTAAGG	94.76	CTGGTGAAT	75.56	-22	AAGGTTGCT	65.61	5	19.2	29.15
TP53	5	ATGGTGAGC	82.89	GTTGTGAGG	69.63	-43				13.26	
	6	GAGGTCTGG	72.07								
TSC2	37	AAGGTGAGT	95.98	TGAGTGAGG	68.76	4	TCAGTGAGG	68.41	18	27.22	27.57
UGT1A1	1	CAGGTGTGT	86.03	GAAGTGAAT	68.23	-92				17.8	
AVG=			82.96	AVG (P)=	68.10			AVG (P)=	15.87		
SD=			6.26	SD (P)=	4.49			SD (A-P)=	8.00		

**Table S4: Comparison between Authentic (A) and Pseudo (P) 5'ss.**

Gene	Exon	Seq C	S&S (C)	Dist (A-C)	Seq P1	S&S (P1)	Dist (A-P1)	Seq P2	S&S (P2)	Dist (A-P2)	S&S (C-P1)	S&S (C-P2)
ABCD1	1	CAGGTGGG	75.74	9								
APOB	24	AAAGTAAAT	73.47	40								
AR	4	CAGGTAG	67.88	-123	GAAGTGGGA	66.14	15	CAAGTGGCC	69.11	-20	1.74	-1.23
ATM	45	AGAGTGACT	63	71	TGAGTGAGT	73.12	48	GAAGTAGGT	74.69	-37	-10.12	-11.69
		TTGGTCTT	53.92	79								
BRCA1	5	TATGTAAGA	78.01	-22	TTGGTAATG	69.98	12				8.03	
	16	TAGGTATG	66.66	69	TATGTAGGT	73.12	65	AGGGTCAAC	62.65	-51	-6.46	4.01
CFTR	4	ATTGTGAGG	71.9	-93	TAGGTAGTG	67.19	81				4.71	
	20	AAGCAACT	68.06	29								
COL1A1	8	TTGGTAAGA	82.72	96								
		CTGGTGAGC	83.76	186								
	34	CTGGTGACA	70.33	-8								
COL3A1	16	GGAGTAAGC	71.9	23								
	20	CTGGTATT	69.1	24	GTGGTGAAC	66.84	-8				2.26	
	42	CAGGTAGAA	70.5	30	CTGGTGAAC	69.98	-17	CTGGTACAG	63.35	-26	0.52	7.15
COL6A1	3	CAAGTACTT	63.35	-66	GGGGTTGCC	63.87	63	CTCGTGGG	61.78	-5	-0.52	1.57
COL7A1	3	TCCGTGAGC	66.14	-104								
	73	CTGGTATTC	62.3	-62	AGAGTGAGG	72.25	25	GGGGTGTGG	71.02	-32	-9.95	-8.72
	95	GGGGTCAGT	79.75	-7								
C3	18	GAAGTGAGT	81.84	-61	AGAGTCAGA	64.74	37	CCGGTACAA	61.95	20	17.1	19.89
CYP19	6	CAGGTAAC	86.38	87	AAAGTATGA	71.02	-15	TAAGTAATA	64.57	4	15.36	21.81
CYP27A1	6	GTGGTGGG	75.91	-89	CAGGTGGC	80.97	81	TGGGTGTGG	69.8	-85	-5.06	6.11
DMD	64	AAAGTAGT	76.96	57								
	26	GAGGTGAT	63.17	116	TAAGTAAAA	64.57	25				-1.4	
FAH	12	GAGGTGGT	83.42	105								
FBN1	46	GAAGTCAGT	75.39	33								
F5	10	TCGTAAAG	70.15	-35	GAAGTAACC	65.79	16				4.36	
FGA	4	AAAGTACAG	58.11	-66								
		AATGTTAGA	71.9	-36								
		GGAGTTAAG	49.73	-1								
		TAAGTATTA	72.94	4								
F7	7	TGGGTGGG	74.69	37								
GCK	4	CCTGTGAGG	72.42	-24								
GHV	2	TGGGTAATG	69.98	12								
HBA2	1	GGGTAAGG	84.99	-49	ATGTGCGG	73.12	-19	AAGTCGGC	73.63	-44	11.87	11.36
HBB	1	AAGGTGAAC	76.61	-38								
		GTGGTGAGG	81.84	-16								
		AAGTTACA	70.5	13								
	2	AAGGTGAAG	77.83	-135								
		ATGGTAAAG	63.87	47								
HEXA	9	AGGGTGGG	78.18	17								
HEXB	8	AATGTTGGT	67.01	-4								
HMGCL	7	GGGGTATT	64.74	78	CTGGTGGC	61.08	20				3.66	
HPRT	1	CAGGTGGC	68.58	49								
	5	AAGTAAGC	93.54	67								
IDS	7	CTGGTGAGT	89.35	22								
ITGB2	7	AGGGTGGG	73.82	64								
		GAGGTATAG	67.88	298								
ITGB3	4	CAGGTGGG	81.67	27								
KRT5	1	AGGGTGAGG	84.11	-66	ACTGTGGG	65.61	30	TGGGTCTGA	62.3	34	18.5	21.81
LDLR	12	TACGTACGA	66.31	11								
LPL	2	ATGGTGATC	69.1	-18								
		GAGGTATCC	66.84	42								
		CAGGTGGGA	81.15	142								
		GAGGTGGT	76.96	246								
		AGAGTGAGG	72.25	382								
MTHFR	4	AAGGCATGC	65.27	-57								
NF1	27b	AACGTTAAG	58.46	-69								
	28	AAGGTATTC	68.93	-54								
NF2	7	GATGTACGG	69.28	-28								
		ACGGTGTGA	71.9	-23								
	12	AAGGTGCTG	66.84	-53	GGAGTCAGA	62.47	-12				4.37	
		GAGGTGCTG	64.57	-38								
PBGD	1	CAGGTGGC	60.9	67	CCGGTGACC	69.8	15	TTGGTAACG	70.15	-26	-8.9	-9.25
	10	CGGGTGGG	74.69	-9								
PGK1	4	GGGGTGAGG	81.84	30	CCTGTGATT	63	9				18.84	
PKD1	43	CAGGTGGC	68.58	-66	CCGGTGGC	73.12	15				-4.54	
PTEN	4	CAGGTATGA	83.76	4								
	7	CATGTAAGG	83.42	75	GTGGTGATA	67.01	-50	CCTGTGTGT	65.96	-57	16.41	17.46
PYGM	14	CAGGTGAAG	78.7	-67								
RPGR	5	CATGTAAT	73.99	-76								
SERPINA1	2	AGGGTACTC	61.25	-84	CTGGTGAAT	75.56	-22	AAGGTGCT	65.61	5	-14.31	-4.36
TP53	5	GAGGTGTG	58.81	-46	GTTGTGAGG	69.63	-43				-10.82	
	6	CTGGTTGC	66.49	5								
TSC2	37	CCGGTGAGG	84.64	-29	TGAGTGAGG	68.76	4	TCAGTGAGG	68.41	18	15.88	16.23
UGT1A1	1	GAGGTGACT	80.1	-141	GAAGTGACT	68.23	-92				11.87	
AVG=			72.38		AVG (P)=	68.1			AVG (C-P)=	4.28		
SD=			8.53		SD (P)=	4.49			SD (C-P)=	10.71		

**Table S5: Comparison between Cryptic (C) and Pseudo (P) 5'ss.**

GENE	EXON	SEQUENCE	S&S	Splice Id
ACRBP	exon 2 (alt 5'ss)	ATGGTGAGG	84.11	239966
	exon 2 (alt 5'ss)	AAGGTGAGG	91.62	239967
AD-017	exon 1 (alt 5'ss)	GGGGTATCT	64.92	34024
	exon 1 (alt 5'ss)	AGTGTAAAG	75.04	34027
AGR2	exon 1 (alt 5'ss)	CAGGTGGGT	86.56	123603
	exon 1 (alt 5'ss)	CAGGTAAGG	95.63	123605
ALDOA	exon 67 (alt 5'ss)	CCGGTAGT	89	186955
	exon 67 (alt 5'ss)	CAGGTGGG	80.97	186956
ANAPC11	exon 1 (alt 5'ss)	CGGTAGGG	64.92	70274
	exon 1 (alt 5'ss)	AAGGTCCGA	75.58	70277
	exon 1 (alt 5'ss)	CGGTGGT	72.6	70279
APEX	exon 1 (alt 5'ss)	TGAGTCAAG	62.3	144152
	exon 1 (alt 5'ss)	AGGGTACA	61.43	144155
APR-1	exon 1 (alt 5'ss)	GAGGTACAG	67.71	204889
	exon 1 (alt 5'ss)	CAGTCTCTG	61.25	204891
ATP5G1	exon 1 (alt 5'ss)	GAGGTAGT	93.71	130278
	exon 1 (alt 5'ss)	CAGGTGACT	83.24	130280
BAT1	exon 3 (alt 5'ss)	TAGGTAAGC	90.05	217192
	exon 3 (alt 5'ss)	TTGGTCGC	61.95	217194
	exon 3 (alt 5'ss)	ITGGTATT	63.52	217195
BAT3	exon 1 (alt 5'ss)	CAGGTTTGG	75.21	44300
	exon 1 (alt 5'ss)	ACGGTGAAG	70.68	44301
BCAT2	exon 1 (alt 5'ss)	CAGGTGGGT	86.56	115901
	exon 1 (alt 5'ss)	GGGGTAAGC	81.84	115907
BCL2L1	exon 1 (alt 5'ss)	CAGGTAGCC	84.11	22668
	exon 1 (alt 5'ss)	CAGGTAGGA	91.44	22671
	exon 2 (alt 5'ss)	AATGTAGGT	76.61	22672
BTF3	exon 2 (alt 5'ss)	CTGGTACTT	67.88	22674
	exon 3 (alt 5'ss)	CAGGTAGTA	71.55	22675
	exon 3 (alt 5'ss)	TGGGTAAGG	82.72	22676
CES2	exon 1 (alt 5'ss)	AAGGTACA	68.93	120005
	exon 1 (alt 5'ss)	CAGGTACCC	71.02	120024
CES2	exon 10 (alt 5'ss)	ATGGTGATG	70.33	35788
	exon 10 (alt 5'ss)	ACAGTAGT	76.26	35789
CD63	exon 2 (alt 5'ss)	GAGGTATAG	67.88	165404
	exon 2 (alt 5'ss)	CAGGTGAGG	92.49	165405
CDKN3	exon 2 (alt 5'ss)	CAAGTAGT	84.99	126505
	exon 2 (alt 5'ss)	ATGGTAGT	80.8	126508
CNO7	exon 1 (alt 5'ss)	CAAGTAGAT	84.04	58780
	exon 1 (alt 5'ss)	TGGGTAAGT	74.52	58782
COL5A7	exon 1 (alt 5'ss)	CAGGTACCG	71.72	224730
	exon 1 (alt 5'ss)	AGGGTACGA	75.21	224731
	exon 1 (alt 5'ss)	CGTGTAAAG	74.69	224732
CPNE1	exon 1 (alt 5'ss)	GGGTAATT	75.56	89619
	exon 1 (alt 5'ss)	CCGGTAAGA	86.73	89622
CREM	(alt 5'ss)	TAGGTAAGT	95.63	3266
	(alt 5'ss)	ACAGTAGT	68.58	3267
	(alt 5'ss)	CAGGTAAGA	94.58	3271
	(alt 5'ss)	GTGGTAAGG	83.94	3272
	(alt 5'ss)	CTGGTGAAG	83.94	3274
DEDD	exon 7 (alt 5'ss)	GTGGTGAGG	81.84	82843
	exon 7 (alt 5'ss)	TCAGTGTGA	56.54	82844
	exon 1 (alt 5'ss)	GGGGTAGAT	86.21	149572
DJ-1	exon 1 (alt 5'ss)	CAGGTACGC	84.81	154064
	exon 1 (alt 5'ss)	AGTGTACGA	63	204243
DPH2L2	exon 1 (alt 5'ss)	CGAGTGAGG	73.12	16323
	exon 12 (alt 5'ss)	AGTGTGGT	59.51	158020
E4F1	exon 2 (alt 5'ss)	GGGGTGGT	83.42	158021
	exon 2 (alt 5'ss)	GGGGTGAAG	81.84	30342
FTS	exon 2 (alt 5'ss)	TGGGTACGC	71.55	30443
	exon 7 (alt 5'ss)	TGGGTAAGG	83.76	28673
GAS5	exon 7 (alt 5'ss)	AAGGTACAT	74.34	29696
	exon 1 (alt 5'ss)	GTGGTAAG	71.2	231572
GMPPA	exon 1 (alt 5'ss)	GGGTTAGT	87.26	231576
	exon 1 (alt 5'ss)	CAGGTAAGG	95.63	105277
GRB7	exon 1 (alt 5'ss)	CAGGTAAGA	94.58	125279
	(alt 5'ss)	GCTGTGGTG	45.2	148872
HLA-B	(alt 5'ss)	GTGGTGCC	81.6	148874
	(alt 5'ss)	GGGGTAAGG	84.99	148906
	exon 37 (alt 5'ss)	CCGGTAGT	89	105813
HMGY	exon 37 (alt 5'ss)	CAGGTGGT	86.56	105823
	exon 1 (alt 5'ss)	AAGGTGGG	81.32	209525
	exon 1 (alt 5'ss)	CAGGTACCA	70.66	209526
HNRPF	exon 1 (alt 5'ss)	CAGGTACCA	70.66	209526
	exon 1 (alt 5'ss)	GAAGTATGT	74.17	37732
HNRPH3	exon 3 (alt 5'ss)	GAAGTATGT	74.17	37732
	exon 3 (alt 5'ss)	GTGGTATGT	78.53	37735
HNRPK	exon 1 (alt 5'ss)	GCGGTGAGG	81.5	105456
	exon 1 (alt 5'ss)	GAGGTGAGG	89.35	105458

GENE	EXON	SEQUENCE	S&S	Splice Id
HSPC028	exon 1 (alt 5'ss)	CAGGTGAGA	91.44	218579
	exon 1 (alt 5'ss)	CAGGTGAGG	92.49	218580
HSPC126	exon 1 (alt 5'ss)	GTGGTGAAG	80.8	72724
	exon 1 (alt 5'ss)	TAGGTAATG	77.48	72726
HSPC142	exon 1 (alt 5'ss)	ACGGTGAGC	82.54	212339
	exon 1 (alt 5'ss)	AAGGTGGGT	85.68	212342
HSPC171	exon 4 (alt 5'ss)	ACAGTAGT	76.61	37476
	exon 4 (alt 5'ss)	CAGGTGAGC	91.27	37477
HSPC274	exon 1 (alt 5'ss)	CCGGTAAGC	87.78	22595
	exon 1 (alt 5'ss)	CCGGTAGGA	76.78	22599
	exon 1 (alt 5'ss)	AACGTATGT	75.39	22602
IRF3	exon 1 (alt 5'ss)	GGGTGGGT	75.91	139017
	exon 1 (alt 5'ss)	TAGGTAAGC	77.66	139022
ITGB4	(alt 5'ss)	AACGTAGG	81.84	126342
	(alt 5'ss)	TGGGTATGA	71.9	126343
KIAA0436	exon 1 (alt 5'ss)	TGGTAAAT	88.13	251140
	exon 1 (alt 5'ss)	TGGTAAAT	64.39	251143
KIAA0852	exon 20 (alt 5'ss)	AAGGTGAGC	68.84	150109
	exon 20 (alt 5'ss)	GAGGTGAGC	88.13	150109
KIAA1118	exon 10 (alt 5'ss)	GAGGTGAGC	74.52	60788
	exon 10 (alt 5'ss)	ACGGTGTGC	71.72	60789
LHX6	exon 9 (alt 5'ss)	CAGGTGAGC	86.03	115429
	exon 9 (alt 5'ss)	AAGGTAAT	85.34	115431
LOS1119	exon 2 (alt 5'ss)	TGTGTAAGC	69.98	110895
	exon 2 (alt 5'ss)	CAGGTGGGT	86.56	110899
LOC51053	exon 1 (alt 5'ss)	CCAGTAGT	80.27	54576
	exon 1 (alt 5'ss)	TGGGTAAAG	83.76	54577
LOC51329	exon 2 (alt 5'ss)	GAGGTGAGA	78.01	115163
	exon 1 (alt 5'ss)	AGGGTAGGA	75.91	115164
	exon 2 (alt 5'ss)	GGGGTGGT	75.91	115166
	exon 2 (alt 5'ss)	AAGGTGAGA	60.2	115169
	exon 2 (alt 5'ss)	AGGGTGGG	88.13	115172
LOC51596	exon 1 (alt 5'ss)	CAGGTAGA	94.58	113295
	exon 1 (alt 5'ss)	GTGGTAGT	86.21	113306
LOC51604	(alt 5'ss)	GGGTGAGT	73.99	113309
	(alt 5'ss)	CAGGTGGG	80.47	128004
LOC51645	(alt 5'ss)	CTGTAAAT	79.93	128044
	exon 2 (alt 5'ss)	TTGGTAATC	68.76	69441
LOC55871	exon 2 (alt 5'ss)	CAAGTAAT	71.37	69442
	exon 2 (alt 5'ss)	TAGGTAAGT	90.22	69444
	exon 5 (alt 5'ss)	CAGGTGAGC	67.71	211412
MAGED2	exon 5 (alt 5'ss)	ATGGTAGT	91.62	211413
	exon 9 (alt 5'ss)	CAAGTAGA	79.58	211689
MAPK7	exon 2 (alt 5'ss)	TAGGTAATC	71.2	219690
	exon 2 (alt 5'ss)	CAAGTAGT	88.13	228256
	exon 2 (alt 5'ss)	GGGGTAGT	86.21	228257
MBD4	exon 3 (alt 5'ss)	CTGGTAGA	83.94	225423
	exon 3 (alt 5'ss)	AAGGTATCC	69.1	225424
	exon 3 (alt 5'ss)	TTGGTAAT	74.34	225428
	exon 3 (alt 5'ss)	CAGGTGAGG	92.49	225429
MLF1	exon 1 (alt 5'ss)	CTCGTAGT	76.43	129086
	exon 1 (alt 5'ss)	AAGGTATCC	70.33	129089
MRPL36	exon 1 (alt 5'ss)	CAGGTGAGG	88.13	149572
	exon 1 (alt 5'ss)	CAGGTGAGG	86.03	149579
MRPS12	exon 1 (alt 5'ss)	GAGGTGGT	76.96	204243
	exon 1 (alt 5'ss)	GAGGTATT	72.25	204244
MTCH1	exon 9 (alt 5'ss)	AGCGTAGT	75.56	39496
	exon 9 (alt 5'ss)	CAGGTGGT	80.1	39498
MUS81	exon 10 (alt 5'ss)	AAGTAATT	85.34	30232
	exon 10 (alt 5'ss)	CAGGTACCT	75.39	30233
NAP1L1	(alt 5'ss)	GAGGTGAGT	81.84	286873
	(alt 5'ss)	AGGGTGGT	88.48	28688
NCF1	exon 8 (alt 5'ss)	GAGGTGAT	73.47	244196
	exon 8 (alt 5'ss)	CAGGTGAGG	84.29	244198
NNAT	exon 2 (alt 5'ss)	AAGGTGTC	65.79	105773
	exon 2 (alt 5'ss)	GAGGTATAC	66.66	105777
NOP56	(alt 5'ss)	CAGGTACCA	69.98	27730
	(alt 5'ss)	CAGGTGAGC	84.81	27731
NOT56L	exon 1 (alt 5'ss)	GAGGTGGG	77.83	158777
	exon 1 (alt 5'ss)	CAGGTGAGT	84.64	158779
NUP62	exon 1 (alt 5'ss)	GAGGTGAGC	91.27	205088
	exon 1 (alt 5'ss)	AAGGTGAGA	80.27	205091
	exon 1 (alt 5'ss)	GTGGTACCC	80.62	205092
OCIA	exon 1 (alt 5'ss)	CCGTAAGT	76.09	97986
	exon 1 (alt 5'ss)	CCGTAAGT	64.39	97989
	exon 2 (alt 5'ss)	GAGGTGGT	83.42	98001
	exon 2 (alt 5'ss)	CAGGTGAGA	81.15	98004

GENE	EXON	SEQUENCE	S&S	Splice Id
ODF2	(alt 5'ss)	AAGGTACTT	74.52	99687
	(alt 5'ss)	GAGGTAGCC	80.97	99689
PAEP	exon 6 (alt 5'ss)	TGGGTAAAG	69.98	128202
	exon 6 (alt 5'ss)	CAGGTGAAA	67.36	133284
PCMT1	exon 8 (alt 5'ss)	AAGGTGAAA	76.78	133285
	exon 1 (alt 5'ss)	CTGGTAAGG	88.13	230871
PDCD10	exon 1 (alt 5'ss)	GGGGTAAGC	70.85	230876
	exon 1 (alt 5'ss)	CAGGTGAGG	89.35	230878
	exon 1 (alt 5'ss)	TTGGTAAGT	75.91	230880
PK1.3	exon 1 (alt 5'ss)	GAGGTGAGG	89.35	137902
	exon 1 (alt 5'ss)	GTGGTAAGT	71.2	137904
PLP1	exon 3 (alt 5'ss)	ACGGTAACA	72.25	243135
	exon 3 (alt 5'ss)	AAGGTGATC	76.61	243137
PPP1R7	exon 57 (alt 5'ss)	GAGGTACTG	67.71	225864
	exon 57 (alt 5'ss)	AAGGTGAGA	90.57	225866
POBP1	exon 1 (alt 5'ss)	CAGGTATCC	71.2	228654
	exon 1 (alt 5'ss)	TTGGTAAGC	70.15	228655
PRAME	exon 1 (alt 5'ss)	GGGGTGGT	75.91	228656
	exon 1 (alt 5'ss)	CAGGTTTGT	74.52	228654
PRKCSH	exon 12 (alt 5'ss)	AGAGTAAGT	79.75	228585
	exon 12 (alt 5'ss)	GAGGTGAGG	64.57	247174
PSEN1	exon 12 (alt 5'ss)	AAGGTCCTG	78.53	247176
	exon 2 (alt 5'ss)	ACTGTACTG	68.06	228074
PYCR1	exon 2 (alt 5'ss)	CAGGTGAGG	70.85	228075
	exon 1 (alt 5'ss)	GGGGTGGT	75.91	132999
RAB7L1	exon 1 (alt 5'ss)	ACGGTAGCT	67.36	133001
	exon 1 (alt 5'ss)	TTGGTTTGT	67.71	107284
RASSF1	exon 2 (alt 5'ss)	CCGGTGGT	78.7	107286
	exon 2 (alt 5'ss)	GTGGTAGC	80.62	231854
RNF7	exon 2 (alt 5'ss)	CAGGTGAGA	81.15	231855
	exon 1 (alt 5'ss)	CAGGTGATG	78.11	152076
RPL17	exon 1 (alt 5'ss)	TGGGTAAAG	82.54	152079
	exon 1 (alt 5'ss)	GAGGTGAGT	93.71	132172
	exon 1 (alt 5'ss)	GGGGTCAAT	79.75	132176
SEC13L1	exon 1 (alt 5'ss)	GAGGTGAGG	70.85	132179
	exon 2 (alt 5'ss)	TTGGTGGG	70.33	132181
	exon 2 (alt 5'ss)	AAAGTATGG	72.07	132182
SEC23B	exon 27 (alt 5'ss)	ACTGTAAAT	79.05	132184
	exon 27 (alt 5'ss)	AATGTAAAT	86.91	132187
	exon 1 (alt 5'ss)	ATGGTAGAT	88.48	58364
SIRT3	exon 1 (alt 5'ss)	GAGGTGAGG	89.35	83854
	exon 1 (alt 5'ss)	AAGGT		