

## Appendix

Table 2.1

section			
2.1.1	MHC tiling array primers		
2.1.1.1	<i>gaps</i>		
	primer name	forward primer	reverse primer
	stSG1159307	TGGTCATGGGCTGTCTGTAA	CTGTGCCATCTCTTTCTGTC
	stSG1159309	TTGGTTCTGTGAGCAGCATC	AGCCAGTCTCTCAGCTCTGC
	stSG1159310	GTGGGAAGGGAGAGAGGTTT	ACATCAGGCAACGTAGACCC
	stSG1159311	TCTGATTGGTCCAAGGAAGG	TGATGCTCTTGTTCAGGTCTG
	stSG1159312	GCCTTGTCTTTCTCCTGCAC	GACTTCGCTCTGACACCTCC
	stSG1159313	GGAGGTGTCAGAGCGAAGTC	TGAGAATGGACAAGGAAGGG
	stSG1159314	TCTCCAGGTATCTGCAGGTC	AAAGACCTGCAAGAAAGGCA
	stSG1159315	TGCCTTTCTTGACAGTCTTT	TCTTCTTGCGCAGACTCTCA
	stSG1159316	TGAGAGTCTGCGCAAGAAGA	AATGGCTGGAGGTAGAGGGT
	stSG1159317	GGCAGGCTGTAGTCCCTGTGT	CCATCAGGGATCATATTGGG
	stSG1159318	CCCAATATGATCCCTGATGG	TCAACACAAAGGCTGTGAGC
	stSG1159319	AGGCTCACAGCCTTTGTGTT	TGGTCTGAGGACTACCCACC
	stSG1159320	GGTGGGTAGTCCTCAGACCA	CTGAGGTGTCTGCCTCCTTC
	stSG1159321	GAAGGAGGCAGACACCTCAG	TCTGGTGCCATACCTAAGGG
	stSG1159322	ATCCTGTAGCCCAGGGAGAT	GTGTAICTGACGTGGCCTTT
	stSG1159323	TCCTGGACATGAAGAACACG	TACTCAGTAAACCCGGTGCC
	stSG1159324	AGATGAGGCAGGAAGGGACT	AGCCACCACACCTTTCTCAC
	stSG1159325	GTGAGAAAGGTGTGGTGGCT	TCGGAACCTTCTTCTCAGA
	stSG1159326	GAAGTTCCGAAGGAGGGAAC	TTCCAGATGGTCAGGTCTCT
	stSG1159327	GAGGACCTGACCATCTGGAA	ACAGACGCGGAGTCATCTCT
	stSG1159328	AGAGATGACTCCGCTCTGT	GGTCCCCTGACTGACACT
	stSG1159329	AGTGTCAGTCCAGTGGGACC	ATCACCCATCGAGAAGCAAG
	stSG1159330	AAAGGTCAGGGTTGCATTTT	TTCTCAATGGTCTCTTGG
	stSG1159331	CCAAGAGGACCATTGAGGAA	CACCCTGAGAAAGGGAATCA
	stSG1159332	TGGACGTGATTCCCTTTCTC	CCACATAACCAGGCCAGAACT
	stSG1159333	AGTTCTGGCCTGGTATGTGG	GGTAAGCAGAGGCTGTGAGG
	stSG1159334	CCTCACAGCCTCTGCTTACC	CCTTGTCTCCACACCAACT
	stSG1159335	AGTTGGTGTGGAGGACAAGG	ATCTGCAGAGCGACTTCCAT
	stSG1159336	GAAGTCGCTCTGCAGATTCC	CTCTCAGAAGGGAGCACCAC
	stSG1159337	TGAGCTTGAGGAGTGTGGTG	GTGCAGGAGAAAGACAAGGC
	stSG1159338	ATTCTCCCTGTGGAGTGGTG	GACTTCGCTCTGACACCTCC

stSG1159339	GGAGGTGTCAGAGCGAAGTC	TGAGAATGGACAAGGAAGGG
stSG1159340	CCCTTCC TTGTCCATTCTCA	CAACACATGTCCACTGGAGG
stSG1159341	TCGTTCTGCTCATTCC TTCA	CCAAACACCACAAATAAGCCA
stSG1159342	AGACAGGAATACGGCAGCCT	GGTCAGGTGCGAATAGGGTA
stSG1159343	GTGACTGCAATAAGGCCCAT	GGTGCCAACAACCTTAACAA
stSG1159344	AGACAGGAATACGGCAGCCT	GGTCAGGTGCGAATAGGGTA
stSG1159345	AGACAGGAATACGGCAGCCT	GGTCAGGTGCGAATAGGGTA
stSG1159346	TGGGCTCCAGAGCAA ACTTA	CCGAGGCCATGAAAGAGTTA
stSG1159347	AGACAGGAATACGGCAGCCT	GGTCAGGTGCGAATAGGGTA
stSG1159348	CGGTTGAATTACAGCGTTGA	CTTCTACGGCAGCTTTCA
stSG1159349	AGACAGGAATACGGCAGCCT	GGTCAGGTGCGAATAGGGTA
stSG1159350	CAGTGCCTCACAGGCATAAT	CACCTGCAAGACAAAGGACA
stSG1159351	TGGGAGCTCACTGTCTTG TG	GGTCAGGTGCGAATAGGGTA
stSG1159352	TCTCCAGGTATCTGCAGGCT	AAAGACCTGCAAGAAAGGCA
stSG1159353	TGCCTTTCTTGCAGGTCTTT	TCTTCTTGCAGACTCTCA
stSG1159354	TGAGAGTCTGCGCAAGAAGA	AATGGCTGGAGGTAGAGGGT
stSG1159355	GGCAGGCTGTAGTCCGTGTG	CCATCAGGGATCATATTGGG
stSG1159356	CCCAATATGATCCCTGATGG	CACCTGCATGCTCCTGTCTA
stSG1159357	TAAGTGGCTTCTGTCCCAGC	GCAGAAACGCCACTGAACTT
stSG1159358	TCACAGCCTTTGTGACCATC	TGGTCTGAGGACTACCCACC
stSG1159359	GGTGGGTAGTCCTCAGACCA	CTGAGGTGTCTGCCTCCTTC
stSG1159360	GAAGGAGGCAGACACCTCAG	TCTGGTGCCATACCTAAGGG
stSG1159361	ATCCTGTAGCCAGGGAGAT	GTGTACTCGACGTGGCCTTT
stSG1159362	TCCTGGACATGAAGAACACG	TACTCAGTAAACCCGGTGCC
stSG1159363	AGATGAGGCAGGAAGGGACT	AGCCACCACACCTTTCTCAC
stSG1159364	GTGAGAAAGGTGTGGTGGCT	TCGGAACTTCTTCTCAGA
stSG1159365	GAAGTTCCGAAGGAGGGAAC	TTCCAGATGGTCAGGTCCTC
stSG1159366	GAGGACCTGACCATCTGGAA	ACAGACGCGGAGTCATCTCT
stSG1159367	AGAGATGACTCCGCTGTGT	GGTCCCACTGGACTGACACT
stSG1159368	AGTGTCACTCCAGTGGGACC	TCAAGAAGCAAGGAAGGGAA
stSG1159369	TTCCCTTCCCTTGCTTCTTGA	CACCCTGAGAAAGGGAATCA
stSG1159370	TGGACGTGATTCCCTTTCTC	CCACATACCAGGCCAGA ACT
stSG1159372	CCTCACAGCCTCTGCTTACC	CCTTGCTCCTCCACACCAACT
stSG1159373	AGTTGGTGTGGAGGACAAGG	ATCTGCAGAGCGACTTCCAT
stSG1159374	GAAGTCGCTCTGCAGATTCC	AGTATGAGGACACGAACGGG
stSG1159375	CCCCTTCGTGCCTCATACT	GCTTGTGTGGGTTTCTTGT

Appendix

stSG1159376	ACAAGGAAACCCACACAAGC	TGCCTATGACTCAGCTCCCT
stSG1159377	AACAGGGCATGGACTACCTG	TCTGGTCAGCACCACAGAAC
stSG1159378	TGCTATGCATCTCTTGGCTG	ATTTGTCTGCATTTGACGGC
stSG1159380	ACAGAGGGCAGAAACTG	TTGAGTAGCGAGCTTCAGGG
stSG1159381	GACTTGCTGGCTGTTTCTC	GGGACAGGGCTGTTTATCTA
stSG1159382	CATTCCACTGTGAGAGGGCT	CCCTGCCTTGATTCAAATGT
stSG1159383	ACATTTGAATCAAGGCAGGG	ACCTTGTTGTCTCGTGTC
stSG1159384	AGGACACGAGACAACCAAGG	GGCCATAGCTTTCACTGCTC
stSG1159385	CGGTCATTCCAATGTGTGAG	GAGAAACCAGCCAGCAAGTC
stSG1159386	TTTGGCTGTGTGTCTGCTTC	GGCATTGTTGTCTCCAGTT
stSG1159387	AACCTGGAGACAACAATGCC	TTGGGATAATGTGAGGAGGC
stSG1159388	GCCTCCTCACATTATCCCAA	AGGTACCGGTAAGCGTGTG
stSG1159389	TCCAGATATGAGGGTGGCTC	GCAGTCTGCTCACCATTGAA
<i>controls</i>		
<b>primer name</b>	<b>forward primer</b>	<b>reverse primer</b>
AF043430 H19 4661	ATTAATGCGCTGTGGCTGATGTGTAGTAG	GAGCCGAGGTGAGGGTCTGGAAATG
AF043430 H19 4600	CACCGCCGGCCGATTTTCTGTAA	ATCTCATCTCCCCAACCTCAATAGTGC
AF043430 H19 2142	AGCCCTGACCACCCGACTCTGACCTTCTA	TGACTCGCCCCCTACCCACCAAATGAT
AF043430 H19 1632	TGGTGGGCACAGGTGAGAGGGAGGTA	GTTGGGCGGTTAGACGGGTTGACACT
M22373 IGF2 425	TTCCCCGCCGCCTCCTTTCATCT	CCCCGCCGCCCCGCTTTC
M22373 IGF2 2513	CCCCACCTGGCGTCTCTGCTC	AACGCGGCGGAAGGTCAAAGTCT
M22373 IGF2 3998	CTCCCGCCCCCAGACACCAATG	CTCACCCCTGCCACCCACCAACTG
M22373 IGF2 1653	GGCCTCCGGGGTGTGGTAACG	TGGGGGCAGGGGCAGAGGAAAAGA
U13802 IGF2 378	AGGCAGAGGGGGATAGAAGAGGGAAGGGGAAG GAA	CAGGGTGCGGGGAGAGCCAGTGTGAAGTGAC
U90095 KvDMR1 68000	TCTCCTCAGCGCGGCCCTCCCC	ATTCGGGCCCTGACTCAGAACC
X03562 HSIGF2G 2122	CCGCCGGCGTTGTCACC	GGGGCGGGCCAGATGTTG
X03562 HSIGF2G 8103	CACCGTCCCCTGATTGCTCTACC	TCTGGGGCCCTTCTTTTCTCTTTG
X03562 HSIGF2G 5925	GACTTTGACCTTCCCGCCGCTTTCTGAGCAC	TCTTCCGCCTTGAGCCGCCCGCTGACCTGA
X03562 HSIGF2G 3280	CCTGGCCTCCGGGGTGTGGGTAACGA	GCAAGGAGGGGGCCGAAGGGAAGGAACAG
X91880 IGF2RDMR2 652	GGGCAGCCGCGTGAACCT	AAGCCAAGCCCCAACCTCGTAAC
X91880 IGF2RDMR2 307	CTGGCGGCTGGGTCGGGTTTTAT	TCGTGGGGGACATGGGGAGGTG
X91880 IGF2RDMR2 185	CAAAGTGGACCCGCCTGCCTGTG	GCCCCCGGAACCCCTAAGACTC
Y13633 DMR0 826	AGGTGGGGGTGTTTGGAGGTGGAGGAGGCTTT CATA	CTCTCCCTGCCCTCTCCCCTTCTTTGCCCTCTTTG TCT
Y13633 DMR0 3273	CCCCAGCACCCCAAGAGGAGGAGAACCACA ACT	GGAGAACCCGCCCCACCATGAAAAACAGC

Y13633 DMR0 306	TGCATCCCCCATCCATTCCAGAGACAAACA	GAATATGAAAGCCTCCTCCACCTCCAAACACC
Y13633 DMR0 2292	GCCTTGGGGTGGTCTGTGCTGTCTGGTGTG	ACTAGGTTGCCGAGGCTCCCGTCAT
BRCA1	CTTCCTCTTCCGTCTCTTTCC	ATCTGTAATTCGCGCTTT
MLH1	TGGTATACAAAGTCCCCCTCA	ACGAGGCTGAGCACGAATAC
RARB2	GAGCAAACGAGTGAGTCAA	CTCTGTGCGCCTTTCTGTCT
GSTP1	CTCTCCCCTGCCCTGTGA	GGGAAGCCTTTCCCTCTTT
PRM	CCACCTGACAAAAGCTCCAG	GGAAGCCAGGTTTGTGTGAT
F	AATAATCCTTTTGTCTCTCCAC	TCCCATCAGCATAAATAAGTA
PREP30	GTTGGGTAGAATGTCCTGTA	GAATTCACCAACCAGTTATC
HS1	AATGAATGAGCAGTCAAAC	CATGAAGATGGATGAATAAG
HS3	GACACGAGGAAATAGTGTAGAT	TCTGAGTATTGGTGTGAGTAAA
IRF1	CCTGCGTTCGGGAGATATAC	ACCGAGCAATCCAAACACTT
GP1.1	TAGCCAGTTTTAGGAGGACA	GTTATTTTTGAGAAGTGGGATT
GP2.1	CACGGTAATCTTAGGGAGAA	AGATGAAAAGTGGACAGTGG
GP3.1	ATAACGGGACTGACTGAGTG	CTTTGTCCATCCAGTCCTAC
GP4.1	TTTGTCTGGAGAATTCAT	GGCAAATAGCAGCTTTGTAT
GP5.1	TGCATTCTTGATTGGAATA	TGCAAGATCCATAGCAAAGT
GP6.1	TCTTGCCTTATTCATGATCC	AGCAAGTTTCTCCATGTAAC
GP8.1	TTCTTTGCTTTGTTCTCATT	GATTTTCCATTCCCTTTGTA
GP11.2	TTCTTGGAGTTAGAGGTTG	TCCAAGCTATTTGATTTCCA
GP12.1	GTAAGAAAAATGGCCAAGAA	AGCTATGCAAGAGTTCAATC
LB4	GGCTGGCATGGACTTTCATTTAG	GTGGAGGGATCTTCTTAGACATC
BG7	GCATTTAATGGGAAGGCAAA	GAATTCCTTCCGAAATGGA
GAPDH	CGGCTACTAGCGTTTTACG	AAGAAGATGCGGCTGACTGT
<b>2.1.2</b>	<b>Bisulphite Sequencing</b>	
	<b>Primers</b>	
2.1.2.1	<i>Chapter 4 - tDMR validation</i>	
	<b>primer name</b>	<b>reverse primer</b>
	<b>forward primer</b>	
	1Liver_1	ccatctctcccttctctctc
	1Liver_2	tcatcacctctctctctAcatc
	1Liver_3	ccaAAaAcccatcttccact
	1Liver_1	aaAcacaatctcaaacccatcc
	2Liver_2	tcccaccctcactcacttct
	2Liver_3	ccttctctccaccaactca
	2Liver_4	cacaAtAcccaAaatccaAAtc
	3Placenta_1	tccattcccattAAaCAaAa

	3Placenta_2	ttgggaggggaataggagT	ctaAccctcccaAatcaca
	3Placenta_3	gggggTTtgTTtgTgTagTTT	AAtcctAaAcactAtAcctcAaAA
	3Placenta_4	tgagaggTgggtgtTTagga	cacacccttcctAACcaat
	4Sperm_1	gggtggggTtTaaaggTTt	tcccaccacactactAtctcc
	4Sperm_2	gaTtTgggtggggaTTaga	aaAAcctctcccacaaAaAca
	5Sperm_1	TtTaggtggggTaTtggtga	cacaAccacctcctAaaAcca
	5Sperm_2	tgtggaTgggtggtTaaaa	cccaAccctcctccctAAA
	5Sperm_3	TTtgggTgTTtggaTTtg	ccaAccctccctAtAAacc
	5Sperm_4	aggaatggagatggTaggg	tccactaAttAatcctcaacc
	5Sperm_5	gagggTgggggaagTTta	tcccctAccatctccattcc
	6Sperm_1	ggagaatgagTggggatga	ccaAtcttctAaAAccctAAA
	6Sperm_2	ggggTTtTagaaagaTtggttg	cccttttAcaccccaAAAa
	6Sperm_3	gaTTtgagaaTttggTtgg	caaatctAAcactAAccacataAcca
	6Sperm_4	gggtgatTaaaaggTTaaggaggT	AAAaAcccacttttactAcaacactAA
2.1.2.2	<i>Chapter 5 - pDMR validation</i>		
	<b>primer name</b>	<b>forward primer</b>	<b>reverse primer</b>
	PSMB8_promoter_1	atggagTttgggagagaagg	tcaAcccacaAaattctcca
	PSMB8_promoter_2	ggggaatgatgggtTaagg	tAcaAttAAcccaAAacctAttcca
	PSMB8_promoter_3	ttgtgtggaTaagggTagga	AaccacaAAacactacaAttctct
	PSMB8_promoter_4	gtgtgatgtTtTggtTtaggT	tcctcAcaccccaAAAActcc
	PSMB8_promoter_5	ggaagTTTTtaggatgTaggg	ttcccaaAacaccacacac
	TAP1/PSMB9_promoter_1	aatggagTTTtagaaTTtTggTTTT	ctAttcctAAcctAAAtAcctctcc
	TAP1/PSMB9_promoter_2	aaaagtgTTgTTTtagaTtatttgg	ctAAAacactAAttccaacctAAAac
	TAP1/PSMB9_promoter_3	TtgggTtgaggggtgTag	cacccaAAacaccattctct
	TAP1/PSMB9_promoter_4	ggggTaTggtttTaaTTtg	cctactccaaaaAtAcctAccc
	TAP1/PSMB9_promoter_5	agggTtggTtggTtTtgg	tccccttAtAcctcccctct
	TAP1/PSMB9_promoter_6	tTgggTaggTTaTtttgaag	AaaAtaAcaAtactAtccccaAcca
	TAP1/PSMB9_promoter_7	ttggTagtgaggggagattTT	cttccctAcccactcccatA
	TNF- $\alpha$ _1	TtgggggagTagaggTtTagTaatga	ccctcccatAAaAccaAct
	TNF- $\alpha$ _2	ggttgaggggtTtgaagga	cccctccacctatActcc
	TNF- $\alpha$ _3	ggagggagagagggagagg	tttctctcctcttcaAAatca
	TNF- $\alpha$ _4	tgatTTgaagaggagagaaaa	caAAccaAacaAAcaAccaA
	LTA_1	TaggggagagaggggtggagT	Atcccaactttcctcaaatcc
	LTA_2	gggttgaggggaaaagTtgt	aaAaAcctccaAAacctccaA
	LTA_3	Ttgggtgggagagtgat	cccctAaaaaaacacctca
	LTB_1	gTtgggaTtTtggggaag	ActccaActAcccactca

2.1.2.3	LTB_2	ggatggggagTTtgattTT	ccccttAtAtctcctctcctcttc		
	<i>Chapter 6 - B2m primers</i>				
	<b>primer name</b>	<b>forward primer</b>	<b>reverse primer</b>		
	B2m_1	aTTaggTattgtggaggTtTtT	AcacttAccttAAacccaAccaa		
	B2m_2	TtgaaggataTaagaagTaagaaagg	caAActAAaAAcacattaaAAActAccc		
	B2m_3	tggtTtAaggaTttatgtgTttg	cccaacccccctcatAttttc		
	B2m_4	TTtggTTaaTatggtgaagTTtgg	tcctcaacaAtcttAAtaaccatctt		
	B2m_5	ggtaTaaagtTagagaggggtTtgg	tctcattccattAcccaAActAAa		
	B2m_6	ttTaaaatggaggtggTttgtt	tccacttttcaattctctctcc		
2.1.3	<b>RT qPCR Primers</b>				
2.1.3.1	<i>MeDIP validation</i>				
	<b>primer name</b>	<b>forward primer</b>	<b>reverse primer</b>	<b>Methylation status</b>	<b>%CpG</b>
	11185.0	CGCTTTGTTTCTGCTCCTTT	GCAACTCTGATGCACCTCAA	methylated	0.7
	11821	TGACAGCCTGTGAGAGCAAG	AGCGAAGCCAGTCTATCAGC	methylated	1.4
	6583	CACTCACCGTCCAGCTATCA	CTCCCTGACCTCCATCTTCA	methylated	2.1
	11851	CCAAGAGGGCTCCCTAGAAG	ATTTGGAAGGGACCTTGCTT	methylated	2.9
	6165.0	CCCTCAGTTCCTACCTCCAA	AGTTACGTGGACTCGGCAAT	methylated	3.8
	4994.0	GGGAATATAAGGAGCGCACA	TCGGTAAAACGGTCAGGTC	methylated	4.9
	9066.0	GCGTAATGAGTGTGGGGATT	GAGGACGCCTTTGTCATTGT	unmethylated	2.5
	8804.0	CGAGGCGTGAGTTATTCCTG	CTCTTGTTGGCTGAGCTCCTT	unmethylated	2.9
	5132.0	AAGGTGCCCAATTCAAGGTA	CTTCCCCACCAGTCTTGAAA	unmethylated	4.0
	13663.0	CCGCCATCATGCTAATTT	AACGAGCTAGGATTGGCTGA	unmethylated	4.9
	9710.0	TTCAGCAGTCTCTGGAGT	CTGGACACAGCTGATGGGTA	unmethylated	5.9
	13478.0	TGAGAGCGGATGACAGATTG	GGTCCCTCCCTTTTCTGTCT	unmethylated	7.2
2.1.3.2	<i>Expression Analysis</i>				
2.1.3.2.1	<i>Chapter 5 - MHC genes</i>				
	<b>primer name</b>	<b>forward primer</b>	<b>reverse primer</b>		
	HLA-A	CGTGATGTGGAGGAGGAAGA	AAGCTGTGAGGGACACATCA		
	HLA-B	ACCAGAGCGAGGCCGGG	GTGTCCGCSCGGTCCAG		
	HLA-C	CGCGCGGAGTCCRAGAGG	GTGTCCGCSCGGTCCAG		
	TAP1	CACTTGCAGGGAGAGGTGTT	ATCACTCAGGGTGGACGTGT		
	TAP2	GGCTGCTTACCTACACCAT	TGAGTTCAGCTCCCCGTCT		
	TAPBP	GCTTCATGGCTGAGGAGGT	CACGAACCAACACTCGATCA		
	PSMB8	CTGGCTGTGCAGCAGACTGT	GCTGCCGACACTGAAATACGT		
	PSMB9	GAGGAACCTCCACTGTTTTGG	CCCAGCCAGCTACCATGAGA		

2.1.3.2.2	LTA	CCACCCTACACCTCCTCCTT	GCAGTGAGTTCTGCTTGCTG
	TNF- $\alpha$	CCCCAGGGACCTCTCTCTAA	CAGCTTGAGGGTTTGCTACA
	LTB	GAGGACTGGTAACGGAGACG	GGGCTGAGATCTGTTTCTGG
	UBC_control	ATTTGGGTCGCGGTTCTTG	TGCCTTGACATTCTCGATGGT
	Chapter 6 - non-MHC genes		
	<b>primer name</b>	<b>forward primer</b>	<b>reverse primer</b>
	B2M	TGACTTTGTCACAGCCCAAG	AGCAAGCAAGCAGAATTTGG
ERp57	AGCAAAGGTTGATTGCACTG	AGCACCTGCTTCTTCACCAT	
CANX	TGAAGAAGATGGTGGCACTG	CGTGGCTTTCTGTTTCTTGG	
CALR	GAGCATATCCCTGACCCTGA	GGCTTCCACTCACCCCTGTA	
UBC_control	ATTTGGGTCGCGGTTCTTG	TGCCTTGACATTCTCGATGGT	

Table 2.1 Primer sets used within this thesis.



Table 2.2

	Clone Name	chr6 coordinates (NCBI35)		Clone Name	chr6 coordinates (NCBI35)
1	6S17_2-317p19.q1kw	29739385-29741249	875	S6A_2-533c24.p1kw	31705175-31707477
2	S6A_2-77114.p1kk	29741918-29744577	876	S6C_2-154e07.q1kw	31706699-31708924
3	6S17_2-612l05.q1ka	29744676-29747250	877	S6A_2-336g08.p1k	31709197-31711626
4	6S17_2-476d07.q1kw	29746874-29749870	878	S6C_2-738i03.p1kw	31711062-31712741
5	S6A_2-58b24.q1kk	29749779-29752306	879	S6C_2-735b07.q1kw	31712696-31715591
6	6S17_2-791d16.p1kw	29751462-29754255	880	6S17_2-603k01.p1kw	31714908-31717675
7	S6C_2-527b07.p1ka	29753458-29755924	881	S6A_3-6j09.q1kkw	31717156-31720176
8	6S17_2-247p20.p1kw	29755213-29757127	882	6S17_2-275j11.q1kw	31720109-31723033
9	S6C_2-310l18.p1kw	29757489-29760285	883	S6A_2-443n24.q1kw	31722899-31725309
10	S6A_2-161l04.q1k	29760268-29762334	884	S6A_2-434p15.p1kw	31725313-31727536
11	S6A_2-44e16.q1k	29761508-29764267	885	S6A_2-232f15.q1k	31727324-31729280
12	6S17_2-225m22.p1kw	29764237-29767111	886	S6C_2-315c16.p1kw	31729834-31732303
13	S6A_2-550n14.q1kw	29766552-29768946	887	S6A_2-499p23.q1kw	31732290-31734492
14	S6C_2-295c12.p1kw	29767842-29770217	888	S6A_2-708j08.p1kw	31734575-31736864
15	S6A_2-271c01.p1k	29770200-29772534	889	6S17_2-353f04.p1kw	31736665-31737878
16	S6A_2-31n18.p1k	29772399-29775033	890	6S17_2-336l18.q1kw	31738344-31740752
17	S6C_2-342g03.p1kw	29774950-29777612	891	S6A_2-107j06.q1k	31740853-31742657
18	S6C_2-600c01.q1kw	29777595-29779994	892	S6A_2-617d06.p1kw	31743642-31745854
19	6S17_2-677d21.q1kw	29779522-29782053	893	S6A_2-269c19.q1k	31745824-31748295
20	6S17_2-432b11.q1kw	29781700-29784102	894	S6A_2-619o04.p1kw	31748193-31750716
21	S6C_2-33f20.q1kkw	29784008-29786547	895	S6A_2-529c07.q1kw	31750913-31753578
22	S6A_2-388e21.q1kw	29786066-29788536	896	S6C_2-650e15.q1kw	31753446-31755818
23	S6A_2-84i07.p1kk	29788550-29790980	897	S6C_2-188o10.q1kw	31755675-31758033
24	6S17_2-561c08.p1kw	29790708-29792696	898	S6A_2-369h15.p1kw	31757550-31760177
25	S6C_3-101a09.p1kw	29792469-29798300	899	S6C_2-82n19.p1kkw	31759922-31762901
26	S6C_2-557i06.p1kw	29797138-29799948	900	S6A_2-407f17.p1kw	31762769-31765478
27	stSG1159305	29799299-29800711	901	6S17_2-406p23.q1kw	31765370-31767911
28	S6A_2-697f03.q1kw	29800446-29802662	902	S6C_2-684o06.q1ka	31767892-31770216
29	S6A_2-592e18.q1kw	29802604-29804427	903	6S17_2-119b24.q1k	31770162-31772565
30	6S17_2-714f01.q1kw	29804125-29806216	904	S6C_2-471o13.q1kw	31772684-31775546
31	S6C_2-296i15.p1kw	29805657-29808379	905	6S17_2-276f22.p1kw	31775197-31778030
32	S6A_2-424g15.q1kw	29807664-29809837	906	S6C_3-146h06.q1kw	31777395-31779445
33	S6C_2-497m09.q1kw	29808891-29811370	907	S6C_2-111d08.q1kw	31779822-31782451
34	S6A_2-372b12.q1kw	29811013-29813380	908	6S17_2-66h05.p1kkw	31782028-31784830
35	6S17_2-614l12.p1ka	29812577-29815102	909	S6C_2-728o04.p1kw	31784795-31786680
36	S6C_2-242e07.p1kw	29814777-29817114	910	S6A_2-100c11.p1k	31786563-31788682
37	S6C_2-704i08.p1kw	29817132-29819812	911	S6C_2-94g11.p1kkw	31789216-31792018
38	6S17_2-471h23.q1kw	29819808-29822523	912	S6A_2-400k18.p1kw	31791865-31794379
39	S6C_2-722b13.p1kw	29821557-29823518	913	6S17_2-5n02.q1k1k	31794386-31796755
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42	S6A_2-336c03.p1k	29825952-29827714	916	S6A_2-474a15.q1kw	31801630-31803851
43	S6A_2-701f10.p1kw	29828204-29830400	917	S6C_2-469h10.p1kw	31803609-31806450
44	S6C_2-599m15.q1kw	29830203-29832660	918	S6A_2-453n01.p1kw	31806374-31808611
45	S6A_2-407n04.p1kw	29831649-29833322	919	6S17_2-345d19.p1kw	31809088-31811582
46	6S17_2-685h21.p1ka	29832961-29834787	920	S6A_2-4a08.q1k	31811489-31813785
47	stSG1159307	29834734-29836045	921	6S17_2-490o08.p1ka	31813686-31816211

48	6S17_2-304c03.p1kw	29835737-29838100	922	6S17_2-172f10.p1kw	31815961-31818685
49	6S17_2-520o23.p1kw	29837818-29840729	923	S6A_2-159m03.q1k	31818595-31821046
50	S6C_2-413g09.p1kw	29840342-29842808	924	6S17_2-594d22.q1kw	31820798-31823180
51	S6A_2-213d23.p1k	29842501-29844941	925	S6C_2-560j06.p1kw	31822009-31824451
52	S6C_2-540l12.p1kw	29845156-29847476	926	6S17_2-433c06.q1kw	31824052-31827057
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54	6S17_2-597i23.q1kw	29849827-29852415	928	S6C_2-317k02.p1kw	31828576-31830902
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56	S6A_2-716f16.p1kw	29854767-29857057	930	6S17_2-589a11.q1kw	31833435-31836123
57	S6A_3-13f15.q1kw	29857045-29859021	931	S6A_2-645c14.p1kw	31835995-31838462
58	S6A_2-18j08.p1k	29859685-29861731	932	S6C_2-19k18.p1kkw	31838392-31840676
59	S6A_2-149a10.p1kw	29861411-29863644	933	S6A_2-367m01.p1kw	31841070-31843352
60	6S17_2-491n23.p1ka	29863681-29866461	934	6S17_2-45g23.q1kkw	31843318-31845787
61	S6A_2-282b18.q1k	29865282-29867840	935	S6A_2-19m07.q1k	31845227-31847566
62	S6C_2-484b07.q1kw	29867463-29870199	936	6S17_2-18c07.p1kkw	31846972-31849912
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65	6S17_2-23i13.q1kkw	29874986-29877591	939	S6A_2-572p22.p1kw	31854646-31857207
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69	S6A_2-211a07.p1k	29884167-29886552	943	6S17_2-481i16.p1kw	31865033-31867206
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72	S6C_2-749j17.p1kw	29891828-29893645	946	S6A_2-464a03.p1kw	31870975-31873642
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82	S6A_2-752d23.q1kw	29913643-29915459	956	6S17_2-747i14.p1kw	31894534-31897087
83	S6A_3-4c06.p1kkw	29915448-29918152	957	S6C_2-251l05.q1kw	31896891-31898751
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85	6S17_2-173d18.p1kw	29919898-29922654	959	S6C_2-242l24.q1kw	31901568-31903345
86	S6A_2-427m23.q1kw	29921905-29924681	960	S6A_2-223f06.q1k	31902447-31904569
87	S6A_2-305d19.q1k	29924579-29926851	961	stSG1159311	31903338-31904796
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89	S6A_2-71a13.p1kk	29929108-29931705	963	6S17_2-281c12.q1kw	31905838-31908522
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91	S6A_2-134k22.p1k	29933548-29935949	965	S6A_2-85a14.p1kk	31910172-31912771
92	6S17_2-201c14.p1kw	29935654-29938224	966	S6C_2-456j01.q1kw	31912703-31915282
93	6S17_2-580e24.p1kw	29937894-29939594	967	S6C_2-477a23.q1kw	31914590-31917011
94	6S17_2-34c02.p1kkw	29939562-29942347	968	6S17_2-512f15.p1ka	31916858-31919434
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97	S6A_2-66m22.q1k	29947487-29949977	971	S6A_2-237d22.p1k	31924942-31927455
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107	S6C_3-160e10.p1kw	29970136-29973125	981	S6C_2-497f24.q1kw	31948132-31950874
108	S6C_2-547i03.p1kw	29972904-29975600	982	6S17_2-700l22.q1kw	31950162-31952297
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123	6S17_2-239i01.p1kw	30006173-30009006	997	S6C_2-48n21.q1kkw	31978958-31981348
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162	S6A_3-77e12.p1kw	30096934-30100100	1036	S6C_2-173b09.p1kw	32063457-32066073
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172	S6C_2-728o08.q1kw	30120845-30122794	1046	stSG1159321	32073608-32074514
173	S6A_2-85n06.q1kk	30123120-30125633	1047	stSG1159322	32074474-32074660
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177	S6C_2-529n06.q1kw	30131866-30134499	1051	stSG1159326	32076457-32077697
178	6S17_2-111f06.p1k	30134479-30136131	1052	stSG1159327	32077678-32079121
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183	6S17_2-214d05.p1kw	30146157-30148833	1057	stSG1159332	32082644-32083799
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186	S6C_2-651k20.q1kw	30152988-30155591	1060	stSG1159335	32086265-32087169
187	S6A_2-471l02.p1k	30155515-30157551	1061	stSG1159336	32087153-32088530
188	S6A_2-257e02.q1k	30157712-30159479	1062	stSG1159337	32088497-32089494
189	S6C_3-93m23.p1kkw	30159325-30162190	1063	S6C_2-542p17.q1kw	32088659-32090434
190	S6C_2-141e11.p1kw	30161540-30164048	1064	S6A_2-48e04.p1k	32088718-32090526
191	S6A_2-163f10.q1k	30163862-30166356	1065	stSG1159338	32090068-32090760
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193	S6A_2-135a12.p1kw	30168959-30171414	1067	stSG1159340	32092057-32093147
194	S6A_2-106c02.q1k	30170963-30172669	1068	stSG1159341	32093106-32093797

195	S6A_2-174i24.q1k	30173168-30175684	1069	stSG1159342	32093716-32094383
196	S6C_3-162p09.q1kw	30175610-30178761	1070	stSG1159343	32094350-32095101
197	6S17_2-550d16.q1kw	30178743-30181378	1071	stSG1159344	32094951-32095618
198	S6C_2-557f19.q1kw	30180952-30183761	1072	stSG1159345	32096186-32096853
199	S6A_2-223g14.q1k	30183196-30185757	1073	stSG1159346	32096816-32097444
200	S6A_2-453d07.p1kw	30185263-30187645	1074	stSG1159347	32097421-32098088
201	6S17_2-269i03.p1kw	30187022-30189582	1075	stSG1159348	32098047-32098810
202	S6C_2-652k08.q1kw	30189405-30191834	1076	stSG1159349	32098656-32099323
203	S6A_2-708n04.p1kw	30191811-30194015	1077	stSG1159350	32099221-32099687
204	S6A_2-262n22.q1k	30194032-30196444	1078	stSG1159351	32099573-32100214
205	S6C_2-144e19.q1kw	30196396-30199101	1079	stSG1159352	32100218-32101294
206	S6A_2-747p05.q1kw	30198825-30200967	1080	stSG1159353	32101275-32102082
207	S6C_2-601k13.q1kw	30200798-30203110	1081	stSG1159354	32102063-32103523
208	S6A_2-7i02.p1k	30203030-30205314	1082	stSG1159355	32103395-32103658
209	6S17_2-431i04.p1kw	30205018-30207995	1083	stSG1159356	32103639-32104607
210	S6A_2-311o21.p1k	30207839-30210162	1084	stSG1159357	32104529-32104838
211	S6A_2-673l12.q1kw	30209756-30211921	1085	stSG1159358	32104734-32105602
212	6S17_2-80f06.p1kkw	30211416-30214316	1086	stSG1159359	32105583-32106365
213	S6A_3-25j03.q1kw	30214249-30217124	1087	stSG1159360	32106346-32107252
214	S6C_2-485i19.q1kw	30217012-30218864	1088	stSG1159361	32107212-32107398
215	S6C_2-101e10.p1kw	30219223-30221767	1089	stSG1159362	32107326-32108110
216	S6A_2-563c04.q1kw	30221831-30223967	1090	stSG1159363	32108067-32108686
217	S6C_2-647k08.p1kw	30223796-30226544	1091	stSG1159364	32108667-32109204
218	S6A_2-534o13.q1kw	30226106-30228443	1092	stSG1159365	32109195-32110435
219	S6C_2-310e17.q1kw	30228982-30231712	1093	stSG1159366	32110416-32111859
220	6S17_2-583k01.q1kw	30231506-30234359	1094	stSG1159367	32111840-32112986
221	S6A_2-238l14.p1k	30233200-30235491	1095	stSG1159368	32112967-32113971
222	S6C_3-111o21.q1k	30235887-30239058	1096	stSG1159369	32113952-32115406
223	6S17_2-617i02.p1ka	30238940-30240972	1097	stSG1159370	32115381-32116535
224	S6A_2-466d22.q1k	30241241-30243458	1098	stSG1159371	32116516-32117768
225	S6C_2-724m20.p1kw	30243167-30246046	1099	stSG1159372	32117749-32119019
226	6S17_2-178p14.q1kw	30245610-30247676	1100	stSG1159373	32119000-32120024
227	S6A_2-454k03.p1kw	30247370-30249040	1101	stSG1159374	32120008-32120922
228	6S17_2-452n04.q1kw	30249896-30252535	1102	stSG1159375	32120903-32121897
229	S6A_2-227e24.q1k	30252097-30254580	1103	stSG1159376	32121878-32123038
230	S6C_2-300o04.q1kw	30254297-30256821	1104	S6C_2-161i04.q1kw	32122000-32123654
231	S6C_2-478b08.q1kw	30256578-30258948	1105	S6C_2-153b21.q1k	32122197-32124965
232	S6C_2-359b06.p1kw	30258897-30261696	1106	stSG1159377	32124830-32125663
233	6S17_2-382n04.q1kw	30261629-30264590	1107	S6A_2-6n18.q1kk	32125354-32127124
234	6S17_2-206g17.q1kw	30264102-30266980	1108	S6A_2-84i07.p1kk	32126619-32128476
235	S6A_2-558e01.p1kw	30266722-30268934	1109	S6A_3-30f14.p1kw	32127610-32130779
236	S6C_2-119k15.q1kw	30269344-30271071	1110	6S17_2-140h16.q1kw	32130633-32133573
237	S6C_3-158j05.q1kw	30271840-30274861	1111	6S17_2-794m01.q1kw	32133633-32134851
238	S6A_2-154j09.p1k	30274583-30276957	1112	6S17_2-719c06.p1kw	32134686-32136930
239	S6A_2-599k23.p1kw	30276880-30279160	1113	6S17_2-269a16.p1kw	32136836-32138862
240	S6A_2-651j12.p1kw	30279117-30281405	1114	S6C_2-524g20.q1kw	32138807-32141209
241	S6A_2-19f16.p1k	30281160-30283602	1115	S6A_2-670i15.p1kw	32141276-32143069
242	6S17_2-75k18.q1kkw	30283371-30285180	1116	6S17_2-750c21.p1kw	32143215-32145326
243	S6C_2-594k01.p1kw	30285428-30288361	1117	6S17_2-25g07.p1kkw	32145676-32148218

244	S6A_2-63e09.p1kk	30288220-30290560	1118	6S17_2-181f24.p1kw	32147563-32149995
245	S6A_2-273p03.p1k	30290402-30292798	1119	6S17_2-418g15.q1kw	32150241-32152796
246	6S17_2-131c02.p1kw	30293081-30295008	1120	6S17_2-174p13.q1kw	32152743-32155604
247	S6A_2-498c09.q1kw	30294868-30297043	1121	S6C_2-513n18.p1kw	32155253-32157618
248	S6C_2-163i17.q1kw	30296768-30299180	1122	S6C_2-291d22.p1kw	32157626-32160240
249	6S17_2-396e16.q1kw	30299219-30301983	1123	S6C_2-326j20.q1kw	32159820-32162689
250	S6C_2-199e05.p1kw	30301929-30304620	1124	6S17_2-434b21.p1kw	32162634-32165023
251	6S17_2-477i01.q1kw	30304335-30306759	1125	6S17_2-389b01.p1kw	32163006-32165743
252	6S17_2-236g22.p1kw	30306687-30309185	1126	S6A_2-108k20.p1k	32165679-32167479
253	S6C_2-320k13.p1kw	30309105-30311651	1127	S6C_3-164b14.q1kw	32167536-32170988
254	S6A_2-244f10.p1k	30310928-30313255	1128	S6A_2-188c20.q1k	32170830-32173166
255	S6A_2-226b24.p1k	30312424-30314809	1129	6S17_2-36b20.p1kkw	32172853-32175681
256	S6C_2-751c24.q1kw	30314787-30317588	1130	S6C_2-26m20.q1kkw	32175385-32178187
257	S6C_2-603i10.q1kw	30317074-30319753	1131	S6C_2-690h09.p1kw	32178090-32180099
258	S6C_2-383m11.q1kw	30318304-30320534	1132	6S17_2-113k10.p1k	32179518-32182024
259	S6A_3-82k19.p1kw	30319881-30322996	1133	S6C_2-332n21.q1kw	32181677-32184316
260	S6C_2-385i07.p1kw	30322904-30325267	1134	6S17_2-285k20.p1kw	32184266-32186875
261	S6A_3-71j14.p1kw	30324946-30327580	1135	S6A_2-287j14.q1k	32186657-32188872
262	S6A_2-262i08.q1k	30326343-30328780	1136	6S17_2-451g19.q1kw	32188704-32191189
263	S6A_3-80j02.q1kw	30328752-30331413	1137	6S17_2-170n17.p1kw	32191153-32193966
264	S6A_2-137k04.p1k	30331401-30333872	1138	6S17_2-598d07.p1kw	32193954-32196840
265	6S17_2-206p12.q1kw	30333824-30336492	1139	S6C_2-31n14.q1kkw	32196380-32199082
266	6S17_2-399g08.q1kw	30336443-30339254	1140	S6A_2-583m19.p1kw	32198195-32200755
267	6S17_2-715k20.p1kw	30339215-30341370	1141	S6C_2-429i16.q1kw	32200537-32203354
268	S6C_2-47o13.q1kkw	30341155-30343559	1142	S6A_2-366o15.p1k	32203258-32205842
269	S6C_2-197e05.q1kw	30343050-30345405	1143	6S17_2-337k22.p1kw	32205637-32208043
270	S6C_2-119a05.q1kw	30345571-30347925	1144	S6C_2-108m04.q1kw	32207678-32210016
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272	S6A_2-724m04.q1kw	30350008-30351777	1146	S6C_2-317i18.p1kw	32212464-32215038
273	S6C_2-725k15.q1kw	30351301-30353113	1147	S6C_2-457p24.p1kw	32215006-32217687
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275	S6A_2-218p05.p1k	30355557-30357404	1149	6S17_2-370g20.p1kw	32220043-32222067
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278	S6C_2-769i13.q1kw	30360627-30363086	1152	6S17_2-321d11.p1kw	32226074-32228304
279	S6A_2-577p21.p1kw	30363052-30365623	1153	6S17_2-277b13.q1kw	32228428-32231227
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282	S6A_2-338i12.p1kw	30368214-30370831	1156	S6C_2-546c20.q1kw	32235275-32238140
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284	6S17_2-527n01.p1kw	30371106-30373524	1158	S6A_2-573a20.p1kw	32240369-32242019
285	S6A_2-305e12.p1k	30373125-30373916	1159	6S17_2-440g13.p1kw	32241499-32244364
286	S6A_2-526m17.p1kw	30375512-30377983	1160	S6A_2-174i16.q1k	32244192-32246383
287	S6C_2-467d24.q1kw	30377836-30380380	1161	S6C_3-168j03.q1kw	32246419-32248999
288	S6C_2-131c20.p1kw	30380190-30382789	1162	S6A_2-551j22.p1kw	32248564-32250364
289	6S17_2-605k15.p1ka	30382810-30384600	1163	S6A_2-393o01.q1kw	32249781-32252103
290	S6C_2-208j05.q1kw	30383972-30386726	1164	S6A_2-379m24.q1kw	32252077-32253933
291	S6A_3-11i22.p1kw	30386439-30389440	1165	6S17_2-322m15.q1kw	32254579-32257632
292	S6C_3-105o09.q1kw	30389144-30392634	1166	S6A_2-691m15.p1kw	32257314-32259506

293	6S17_2-620j16.p1ka	30391810-30393924	1167	6S17_2-22e07.p1kkw	32259227-32261868
294	S6A_2-608o13.p1kw	30393899-30396193	1168	S6A_2-131p01.q1k	32261170-32263480
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297	S6A_2-604p02.p1kw	30401869-30404481	1171	6S17_2-340o16.p1kw	32267130-32269967
298	S6C_2-269h18.q1kw	30404296-30406670	1172	6S17_2-345g09.p1kw	32269887-32272253
299	6S17_2-556i24.p1kw	30406289-30409007	1173	6S17_2-803o14.p1kw	32272047-32274520
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302	6S17_2-62e06.p1kkw	30413558-30415846	1176	S6A_2-352g13.q1kw	32278686-32281326
303	S6C_2-681h24.p1kw	30415752-30417462	1177	S6C_2-650o01.p1kw	32280664-32283173
304	S6A_2-668c19.q1kw	30417193-30419689	1178	S6A_2-165i21.p1k	32283065-32285225
305	S6A_2-720i16.q1kw	30419279-30421497	1179	S6A_2-537g07.p1kw	32285571-32288206
306	S6C_3-93e16.q1kkw	30421568-30424503	1180	S6A_2-528m17.q1kw	32288063-32290295
307	S6A_2-446h15.p1kw	30424262-30426665	1181	S6C_2-377n05.p1kw	32289254-32291325
308	S6C_2-287d19.p1kw	30426212-30428064	1182	6S17_2-162f10.q1kw	32291705-32294316
309	6S17_2-624p03.p1kw	30428243-30430343	1183	6S17_2-700n22.p1ka	32293344-32295765
310	S6C_3-117a10.q1k	30430493-30433527	1184	S6A_2-394m04.q1kw	32295755-32298096
311	S6A_2-403c13.p1kw	30433512-30435982	1185	6S17_2-601o04.q1ka	32298082-32300874
312	S6A_2-489p05.q1kw	30435458-30437915	1186	S6C_2-492i22.q1kw	32300820-32303714
313	6S17_2-377o10.q1kw	30437860-30440596	1187	S6C_2-464c15.q1kw	32303650-32306151
314	S6A_2-470b19.p1k	30440595-30442886	1188	S6C_2-657n17.p1kw	32305696-32308227
315	S6A_2-436n08.p1kw	30442776-30445345	1189	6S17_2-701n21.q1ka	32308325-32311173
316	6S17_2-550i06.p1kw	30445574-30448407	1190	S6A_2-227i07.q1k	32311037-32313141
317	S6A_2-137p02.q1k	30448175-30450582	1191	S6C_2-608i13.q1kw	32312649-32315293
318	S6A_2-504i01.p1kw	30450571-30453097	1192	S6A_2-693f20.q1kw	32314880-32317419
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321	6S17_2-654k24.q1ka	30457324-30459145	1195	S6A_2-19o06.q1k	32321572-32324023
322	S6A_2-585p02.q1kw	30459362-30461425	1196	6S17_2-333n04.p1kw	32323976-32326426
323	S6A_2-363m19.p1k	30461074-30463679	1197	S6A_2-40b07.p1k	32326052-32327925
324	S6C_2-113b05.p1kw	30463598-30466352	1198	S6C_2-544p17.q1kw	32327905-32330164
325	S6A_2-235c01.q1k	30466391-30468882	1199	S6C_3-119i10.p1k	32330237-32333661
326	S6A_2-83e17.q1kk	30468512-30470936	1200	6S17_2-691p19.p1kw	32333324-32335035
327	S6A_2-630n19.q1kw	30470785-30472844	1201	S6A_2-306m22.p1k	32334902-32337196
328	S6C_2-232d09.q1kw	30472435-30474725	1202	S6C_2-53l16.q1kkw	32337055-32339933
329	S6A_2-726b11.p1kw	30474644-30477030	1203	6S17_2-388n01.q1kw	32339897-32342653
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332	6S17_2-715i07.q1kw	30482335-30484495	1206	S6C_2-329e03.p1kw	32347172-32349492
333	S6C_2-122d21.p1kw	30484481-30486798	1207	S6C_2-356p18.q1kw	32349911-32352716
334	S6A_2-364h11.q1k	30486590-30488863	1208	S6A_2-359j18.q1kw	32352121-32354558
335	S6A_2-614f15.p1kw	30489386-30491682	1209	6S17_2-453h05.p1kw	32354408-32357209
336	S6C_2-431j21.p1kw	30491424-30493923	1210	6S17_2-99c23.p1kk	32357072-32359919
337	S6A_2-750n07.q1kw	30493541-30495842	1211	S6C_2-186k14.p1kw	32359755-32362494
338	S6A_2-149i02.q1k	30495615-30497361	1212	S6C_2-671n06.q1kw	32362260-32364675
339	S6C_2-581h23.p1kw	30496479-30499147	1213	S6C_2-301f13.q1kw	32364646-32367027
340	S6A_2-507a06.q1kw	30498694-30501279	1214	S6C_3-121k16.q1kw	32367187-32370019
341	S6C_2-295i04.p1kw	30501127-30503780	1215	S6C_3-141i24.q1kw	32369513-32372579

342	S6C_2-25f21.q1kkw	30503512-30505932	1216	S6A_2-36i20.q1k	32372351-32375042
343	6S17_2-400l17.q1kw	30505856-30508413	1217	S6A_2-280d20.p1k	32375009-32376811
344	S6A_2-540e20.p1kw	30507610-30510119	1218	6S17_2-799l05.q1kw	32376862-32379701
345	6S17_2-477f16.q1kw	30509530-30512280	1219	S6C_2-670i02.p1kw	32379696-32381542
346	S6A_2-307k14.q1k	30512150-30514491	1220	S6A_2-462n13.p1kw	32381617-32384080
347	S6C_2-271f21.p1kw	30514250-30516917	1221	S6C_2-640n13.q1kw	32383418-32386054
348	6S17_2-716e10.p1kw	30516686-30519460	1222	6S17_2-49a24.q1kkw	32386043-32387227
349	S6C_2-285g11.p1kw	30519080-30521624	1223	6S17_2-294m12.p1kw	32387922-32390488
350	S6C_2-602b15.p1kw	30521587-30523578	1224	6S17_2-67f06.p1kkw	32390209-32393140
351	S6A_2-670e19.q1kw	30522628-30524632	1225	6S17_2-349k10.p1kw	32393119-32395967
352	S6A_3-70g05.p1k	30523998-30526686	1226	6S17_2-706c04.p1ka	32395956-32398655
353	S6C_3-122j09.p1kw	30526624-30528439	1227	S6C_2-461f12.p1kw	32398586-32401154
354	6S17_2-149n23.p1kw	30527803-30529467	1228	S6C_2-685o08.p1ka	32400808-32402021
355	S6A_2-288n24.p1k	30530465-30532499	1229	6S17_2-82j13.q1kk	32402691-32405190
356	S6C_2-583f04.q1kw	30532105-30534885	1230	S6A_2-518p02.q1kw	32404753-32407328
357	S6C_2-307h13.q1kw	30534798-30537070	1231	S6C_2-282n14.p1kw	32407198-32409584
358	S6A_2-231k06.q1k	30536189-30538357	1232	S6A_2-240h02.p1k	32409735-32412419
359	S6A_2-255b11.q1k	30537837-30539816	1233	S6C_2-22o07.p1kkw	32411660-32414241
360	S6A_2-272d08.q1k	30539289-30540956	1234	S6C_2-179h23.p1kw	32414203-32416787
361	6S17_2-465d24.q1kw	30541640-30543704	1235	6S17_2-786f06.p1kw	32416697-32418805
362	6S17_2-685m16.p1ka	30543626-30546580	1236	S6A_2-176i23.p1kw	32418544-32420769
363	S6A_3-54n20.q1kw	30546495-30548204	1237	S6A_2-64i05.p1kk	32419949-32422580
364	S6C_2-743g21.p1kw	30548127-30550788	1238	S6A_2-724i15.p1kw	32423326-32425860
365	6S17_2-544m01.q1kw	30550719-30553560	1239	S6A_2-200f17.p1k	32425489-32427795
366	S6C_2-179c19.q1kw	30553123-30554913	1240	S6C_2-566m04.p1kw	32427558-32430508
367	S6A_3-59l07.q1kw	30555778-30557696	1241	S6A_2-422n17.q1kw	32430334-32433086
368	S6A_2-24f07.q1k	30557295-30559029	1242	S6C_2-533m14.p1kw	32432791-32435294
369	6S17_2-304j10.q1kw	30559011-30561081	1243	6S17_2-218b15.p1kw	32434975-32437634
370	S6C_2-747i18.p1kw	30561209-30563657	1244	S6A_2-175p24.q1kw	32437597-32439662
371	S6C_2-464i11.p1kw	30562566-30564894	1245	S6A_2-233g24.q1k	32439560-32442112
372	S6C_2-611a24.p1kw	30563893-30565706	1246	S6A_2-560o19.p1kw	32441851-32444119
373	S6C_2-375i22.p1kw	30565890-30568365	1247	S6C_2-69e08.p1kkw	32444450-32446973
374	S6A_2-278m09.q1k	30568353-30570872	1248	S6C_2-220j13.q1kw	32446941-32449572
375	6S17_2-67k07.p1kkw	30570795-30573727	1249	S6C_2-569i07.q1kw	32449154-32450929
376	S6A_2-747m18.p1kw	30572905-30575560	1250	S6C_2-628h15.q1kw	32451114-32453613
377	S6C_2-172p23.q1kw	30575245-30577665	1251	6S17_2-698k06.q1kw	32453538-32456020
378	6S17_2-378i03.q1kw	30577899-30580927	1252	6S17_2-608m07.p1kw	32455394-32458106
379	S6C_2-513f11.p1kw	30580787-30583642	1253	S6C_2-696o02.q1kw	32457815-32460338
380	6S17_2-749c22.p1kw	30583516-30586461	1254	S6A_3-16c05.q1kw	32460037-32462779
381	S6A_3-62g20.q1kw	30586174-30588872	1255	S6A_2-705a07.p1kw	32462731-32465220
382	S6A_2-697m16.p1kw	30588870-30591425	1256	S6A_2-510h22.p1kw	32465117-32466918
383	6S17_2-641j23.q1ka	30591506-30594471	1257	S6C_3-172m09.q1kw	32467000-32470237
384	S6A_2-19p24.q1k	30593471-30595894	1258	S6C_2-469o13.q1kw	32469310-32471729
385	6S17_2-809d16.q1kw	30595623-30597651	1259	S6C_2-599m10.q1kw	32471036-32473567
386	6S17_2-180c13.p1kw	30598279-30600699	1260	6S17_2-529o09.q1ka	32473396-32476273
387	S6C_2-143j13.p1kw	30600787-30603165	1261	S6A_3-52o24.p1kw	32476215-32479059
388	S6C_2-338l08.q1kw	30603265-30606001	1262	S6A_2-80d09.p1kk	32478550-32480757
389	6S17_2-713f01.p1kw	30605872-30608344	1263	S6C_2-764n11.q1kw	32480829-32483469
390	S6A_2-430k18.p1kw	30608279-30610773	1264	S6C_2-725c15.q1kw	32483778-32485594



391	6S17_2-709l13.q1kw	30610759-30613495	1265	S6C_2-567l15.q1kw	32484275-32487774
392	6S17_2-276d01.p1kw	30613312-30615903	1266	S6A_2-69d24.p1kk	32487094-32489228
393	6S17_2-552g04.p1kw	30615039-30617134	1267	S6C_2-578i03.q1kw	32489023-32491841
394	S6A_2-639h21.p1kw	30615921-30618392	1268	6S17_2-455p07.q1kw	32491122-32493607
395	S6A_2-294e20.p1k	30618347-30620800	1269	6S17_2-144e24.q1kw	32493635-32496386
396	S6C_2-237l21.q1kw	30620979-30623383	1270	S6C_2-479j24.q1kw	32496153-32498835
397	6S17_2-36b13.p1kkw	30622725-30624634	1271	S6C_2-194k16.p1kw	32498517-32501144
398	6S17_2-802e14.p1kw	30624293-30626447	1272	S6A_2-58m09.q1kk	32501095-32503289
399	S6A_2-579n18.p1kw	30625905-30628399	1273	6S17_2-683h01.q1kw	32503289-32505783
400	S6C_3-159k18.p1kw	30628383-30631301	1274	6S17_2-536j18.p1ka	32505710-32507577
401	6S17_2-420n07.p1kw	30631236-30633764	1275	6S17_2-309p14.q1kw	32507665-32509609
402	S6A_2-303f10.p1k	30633576-30636156	1276	S6C_3-111f03.p1k	32509557-32512401
403	S6A_2-512f01.q1kw	30634913-30637265	1277	S6A_2-581h02.p1kw	32511421-32513544
404	S6C_2-451p19.q1kw	30637406-30640137	1278	S6A_2-701o11.q1kw	32513678-32516071
405	S6A_2-607l20.p1kw	30639961-30642497	1279	S6C_2-643b21.q1kw	32515863-32518446
406	S6C_2-73i20.p1kkw	30641900-30644649	1280	S6A_2-187g15.q1k	32518443-32520782
407	S6C_2-270i20.q1kw	30644018-30646431	1281	S6C_2-462h08.p1kw	32519353-32522182
408	6S17_2-165k19.p1kw	30646407-30648967	1282	S6A_2-635j03.q1kw	32521822-32523899
409	6S17_2-601g11.q1kw	30648853-30651217	1283	S6A_2-643f19.q1kw	32524176-32526297
410	S6C_2-448f23.p1kw	30651243-30653044	1284	6S17_2-287f10.q1kw	32526778-32528509
411	S6C_2-601l10.p1kw	30652902-30655245	1285	S6C_2-6n11.q1kkww	32529286-32531892
412	6S17_2-423g01.q1kw	30654388-30657128	1286	6S17_2-69c01.q1kkw	32531595-32534000
413	S6C_2-438f22.p1kw	30657126-30659083	1287	S6A_3-30g20.p1kw	32533849-32536651
414	S6A_2-181m21.q1k	30659373-30661831	1288	S6A_2-470m16.q1k	32536608-32539324
415	6S17_2-481d23.q1kw	30661673-30664635	1289	S6C_2-291o13.p1kw	32539196-32541992
416	S6C_2-682c04.p1kw	30664440-30666945	1290	S6A_2-127n09.p1k	32541661-32544149
417	S6A_2-440o11.q1kw	30666198-30668712	1291	S6A_2-485m01.p1kw	32543851-32546046
418	S6C_2-590f14.q1kw	30668130-30670622	1292	S6A_2-160p02.q1k	32546536-32549027
419	S6A_2-47a20.p1k	30670375-30672687	1293	S6C_2-655g07.p1kw	32549101-32552079
420	6S17_2-154e09.q1kw	30672681-30675554	1294	S6C_2-542d02.q1kw	32552075-32554386
421	S6A_2-168i23.q1k	30675002-30677589	1295	S6C_3-161p08.p1kw	32553907-32557064
422	6S17_2-578i18.p1kw	30677499-30679491	1296	S6C_2-754f14.q1kw	32557020-32559661
423	S6A_3-84h09.p1kw	30678881-30681415	1297	S6C_2-558c22.p1kw	32559508-32562044
424	S6A_2-64m14.p1kk	30681160-30683469	1298	S6C_3-104n23.q1kw	32561821-32564747
425	S6C_2-510m16.p1kw	30682967-30685552	1299	stSG1159378	32564183-32565404
426	S6A_2-317a15.q1k	30685464-30687948	1300	S6C_2-494h24.q1kw	32566224-32568770
427	6S17_2-34d21.q1kkw	30687802-30690256	1301	S6C_2-213o20.p1kw	32567713-32570098
428	S6A_2-129m07.q1k	30689948-30692394	1302	S6C_2-410b14.p1kw	32570284-32572093
429	6S17_2-104a16.q1k	30691343-30693991	1303	S6C_2-65n15.p1kkw	32574017-32576550
430	S6A_2-513c24.q1kw	30693812-30696380	1304	S6C_2-242o23.q1kw	32574678-32577348
431	S6C_2-359i16.p1kw	30696331-30698309	1305	S6C_2-585c14.p1kw	32577343-32579881
432	6S17_2-579m09.p1kw	30698815-30701782	1306	S6C_2-371b04.p1kw	32577611-32579425
433	S6C_2-497h09.q1kw	30701596-30704062	1307	S6C_2-23j17.p1kkw	32583051-32585482
434	S6A_2-604l08.q1kw	30703929-30706199	1308	S6C_2-654j11.p1kw	32585496-32588059
435	6S17_2-606d04.q1ka	30706250-30708860	1309	S6C_2-352n06.p1kw	32587814-32590389
436	S6C_2-592h12.p1kw	30708719-30711475	1310	S6C_2-266a20.q1kw	32588572-32590988
437	6S17_2-432i09.q1kw	30711444-30713962	1311	stSG1159379	32590480-32591619
438	S6A_2-138a12.p1k	30712897-30714595	1312	S6C_3-109f13.p1kw	32591170-32594283
439	6S17_2-474m08.p1kw	30714444-30716453	1313	S6C_3-125f11.q1kw	32592713-32595798

440	6S17_2-286k07.p1kw	30716726-30719431	1314	S6C_2-440h12.q1kw	32595228-32598303
441	6S17_2-106m14.q1k	30719078-30721808	1315	S6C_2-701f06.q1ka	32598134-32600400
442	S6C_2-736m04.p1kw	30721858-30724158	1316	S6C_2-23a13.p1kkw	32598979-32601716
443	S6A_2-557h08.p1kw	30723587-30725874	1317	stSG1159380	32601273-32601860
444	6S17_2-605k18.p1ka	30725120-30727637	1318	S6C_2-212a06.p1kw	32603319-32606243
445	S6A_2-169l15.q1k	30727592-30729910	1319	S6A_2-718o07.q1kw	32605193-32606885
446	6S17_2-28b16.p1kkw	30729548-30732095	1320	S6C_2-763i15.q1kw	32606648-32609256
447	6S17_2-493e01.q1ka	30731648-30734384	1321	S6A_2-247f17.p1k	32609013-32611396
448	S6A_2-611m11.q1kw	30733869-30736082	1322	S6C_2-394o17.q1kw	32611011-32613607
449	S6C_3-120e01.p1k	30736385-30739485	1323	S6C_3-93b19.p1kkw	32613182-32615215
450	S6C_2-652e24.p1kw	30739217-30741637	1324	S6A_2-470p08.p1k	32613622-32616563
451	6S17_2-519o08.p1kw	30741586-30744046	1325	S6C_2-31e15.p1kkw	32617073-32619269
452	S6C_2-596a06.p1kw	30742569-30745072	1326	S6C_2-197c12.q1kw	32617304-32619571
453	S6C_2-153a04.p1kw	30744416-30747127	1327	S6A_2-109i04.p1k	32619337-32622559
454	S6A_2-726n04.q1kw	30747104-30749574	1328	S6C_2-494l02.q1kw	32621015-32622850
455	6S17_2-783p12.p1kw	30749221-30751728	1329	S6C_2-603c08.p1kw	32622631-32625110
456	S6C_2-121d16.q1kw	30751423-30754146	1330	S6A_2-155c16.q1k	32624242-32626309
457	S6A_2-485e09.q1kw	30754016-30756025	1331	S6A_2-527d02.p1kw	32626531-32628342
458	6S17_2-749c13.p1kw	30754744-30757288	1332	stSG1159381	32628159-32629647
459	S6A_2-365l07.p1k	30756515-30758800	1333	S6C_2-748n04.q1ka	32629458-32632030
460	S6A_2-617f24.q1kw	30758534-30760818	1334	S6C_2-23n12.q1kkw	32629755-32631649
461	S6A_2-608l19.q1kw	30760969-30763083	1335	stSG1159382	32631240-32632113
462	S6A_2-126l05.q1k	30763012-30765292	1336	stSG1159383	32632094-32633379
463	S6C_2-495l23.q1kw	30765125-30768040	1337	stSG1159384	32633359-32634474
464	6S17_2-494h12.p1ka	30767990-30770760	1338	S6A_2-112j12.q1k	32633496-32636719
465	S6C_2-243h09.q1kw	30770430-30772995	1339	S6C_2-519f13.q1kw	32635458-32637246
466	6S17_2-230b18.p1kw	30772906-30775852	1340	S6C_3-129n21.q1kw	32637066-32640334
467	S6A_2-366d09.q1k	30775195-30777418	1341	S6C_2-755e01.q1kw	32637942-32640486
468	S6C_2-4d21.p1kkww	30777380-30779889	1342	S6C_2-451a13.q1kw	32641050-32643561
469	S6A_2-219b07.q1k	30779529-30781860	1343	S6C_2-442e02.q1kw	32642241-32644714
470	S6A_2-635p12.q1kw	30782027-30784613	1344	S6C_2-351b16.p1kw	32644074-32646662
471	S6A_2-224o01.p1k	30783876-30786164	1345	S6C_2-498k17.q1kw	32646521-32649544
472	S6A_3-52k18.q1kw	30786358-30789092	1346	6S17_2-558f21.q1kw	32649832-32652328
473	S6A_2-269o12.p1k	30788411-30790724	1347	6S17_2-329d06.q1kw	32651630-32653632
474	S6C_2-50c18.p1kkw	30791075-30793632	1348	stSG1159385	32653282-32654222
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476	S6A_2-100c12.p1k	30796079-30798491	1350	S6C_2-670k24.q1kw	32656262-32659045
477	S6A_2-377a10.p1kw	30798378-30800913	1351	S6C_2-679p20.q1kw	32657249-32658112
478	S6A_2-34a12.p1kk	30800557-30802795	1352	stSG1159386	32657650-32658663
479	S6A_2-621o08.q1kw	30802979-30805417	1353	stSG1159387	32658644-32659426
480	S6A_2-372i15.q1kw	30805362-30807102	1354	stSG1159388	32659407-32660508
481	S6A_2-241e07.p1k	30807576-30809875	1355	S6C_2-744j22.q1kw	32660487-32663275
482	S6C_2-681g09.q1kw	30809836-30812174	1356	S6C_2-684n08.p1kw	32663263-32666061
483	S6C_2-753m03.q1kw	30812071-30814586	1357	S6C_2-158k03.q1kw	32666007-32668413
484	S6C_2-366p06.p1kw	30814167-30816002	1358	6S17_2-498j06.p1ka	32668459-32673858
485	6S17_2-223m24.p1kw	30815969-30818954	1359	S6C_3-154p07.p1kw	32673701-32676631
486	S6A_3-28g11.p1kw	30818455-30821315	1360	6S17_2-665m03.q1ka	32676160-32678749
487	S6C_2-340j09.p1kw	30821312-30823199	1361	S6A_2-374i19.q1kw	32678591-32681243
488	S6C_2-672h21.q1kw	30822901-30825493	1362	S6C_2-494b13.p1kw	32680961-32683760

489	S6C_2-242j03.q1kw	30825368-30827875	1363	6S17_2-503b15.p1ka	32683574-32686564
490	S6C_2-635b09.p1kw	30827954-30830159	1364	S6C_2-650m15.p1kw	32686431-32689080
491	6S17_2-552m05.q1kw	30829832-30832357	1365	S6C_2-126m01.q1kw	32689045-32691474
492	S6A_2-238c19.p1k	30832302-30834685	1366	S6C_2-22i19.q1kkw	32691590-32694583
493	6S17_2-368f12.q1kw	30834737-30837454	1367	S6C_2-651a14.q1kw	32694444-32697209
494	S6C_2-433i09.q1kw	30837308-30839740	1368	S6C_2-117g07.p1kw	32696991-32699506
495	6S17_2-713g11.p1kw	30839483-30842254	1369	S6C_2-100a10.q1kw	32699542-32702227
496	S6C_2-542h16.q1kw	30842022-30844454	1370	S6A_2-297b14.p1k	32701857-32703743
497	6S17_2-461g23.q1kw	30844326-30847065	1371	6S17_2-493b24.p1ka	32702876-32705751
498	6S17_2-540d07.p1kw	30846326-30848768	1372	S6C_2-53b07.p1kkw	32705613-32708110
499	S6A_2-300p23.p1k	30847921-30849896	1373	S6C_2-437n18.q1kw	32707826-32710692
500	S6C_2-491b06.p1kw	30849894-30851788	1374	S6A_2-742g13.p1kw	32710133-32712269
501	S6C_2-238i15.q1kw	30851980-30854444	1375	S6C_2-313h24.p1kw	32712264-32714547
502	S6A_2-224i23.q1k	30854311-30856717	1376	S6A_2-254o14.p1k	32714274-32717018
503	6S17_2-443o13.p1kw	30856421-30858535	1377	6S17_2-540i21.q1kw	32716744-32719125
504	S6C_2-139a14.q1kw	30858795-30861512	1378	6S17_2-22g19.q1kkw	32718336-32721027
505	S6A_2-220k01.p1k	30861196-30863592	1379	S6C_2-247i11.q1kw	32720216-32722920
506	6S17_2-518m10.q1kw	30863518-30866151	1380	S6C_2-185f19.p1kw	32722734-32725314
507	S6A_2-715o03.q1kw	30865584-30868163	1381	6S17_2-64b02.q1kkw	32724504-32727177
508	6S17_2-506m05.p1ka	30868063-30870686	1382	S6C_2-308e07.p1kw	32726637-32729174
509	6S17_2-748e20.q1kw	30870599-30873244	1383	S6C_2-724k13.q1kw	32728497-32731051
510	S6C_2-696g02.p1kw	30872234-30874823	1384	6S17_2-75a05.q1kkw	32730866-32733779
511	6S17_2-557m16.p1kw	30874781-30877077	1385	S6C_2-766n01.p1kw	32733611-32736437
512	6S17_2-688j02.q1kw	30876767-30879336	1386	S6A_2-584b12.q1kw	32736096-32738289
513	6S17_2-344b02.p1kw	30879040-30881645	1387	6S17_2-681i03.q1kw	32738279-32741157
514	6S17_2-213f19.p1kw	30881555-30884300	1388	S6C_2-288m06.q1kw	32740888-32743557
515	6S17_2-515d12.p1kw	30884117-30886506	1389	6S17_2-745b24.q1kw	32743165-32746083
516	S6C_2-351a06.q1kw	30886417-30888781	1390	6S17_2-649i15.p1kw	32745804-32748726
517	6S17_2-83a03.p1kk	30888462-30891159	1391	6S17_2-641c13.p1kw	32748236-32751038
518	6S17_2-62i21.q1kkw	30891136-30893651	1392	S6C_2-327b22.q1kw	32750587-32752380
519	S6C_2-458b06.p1kw	30893226-30895910	1393	6S17_2-278p22.p1kw	32751956-32754798
520	S6A_2-433k05.p1kw	30895816-30897841	1394	S6C_2-356i09.q1kw	32754319-32756817
521	S6A_2-195f18.q1k	30897892-30900087	1395	S6C_2-766k17.p1kw	32756715-32759481
522	S6A_2-184f09.q1k	30901287-30903649	1396	S6C_2-380f22.q1kw	32759416-32762298
523	6S17_2-337o24.p1kw	30903401-30906093	1397	S6C_2-19b23.q1kkw	32761722-32764350
524	6S17_2-773c19.p1kw	30905687-30908256	1398	S6A_2-361d06.q1kw	32764348-32767006
525	S6A_2-20p13.q1k	30908280-30910487	1399	S6A_2-691a16.q1kw	32766998-32769591
526	S6A_2-520k18.p1kw	30911060-30913484	1400	S6C_2-487i03.q1kw	32769075-32771517
527	S6C_2-351b17.q1kw	30913457-30915859	1401	S6A_2-253b21.p1k	32771813-32774032
528	S6C_2-386k22.q1kw	30915614-30918252	1402	6S17_2-247p13.p1kw	32773440-32776301
529	S6C_2-230f11.p1kw	30917880-30920413	1403	S6C_2-575h17.p1kw	32776173-32778703
530	S6A_2-196i12.q1k	30919625-30921968	1404	S6A_2-636e10.p1kw	32778597-32781168
531	6S17_2-662k11.p1ka	30921800-30923844	1405	6S17_2-783k03.p1kw	32780871-32783266
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533	S6A_2-141i5.p1k	30925491-30927915	1407	S6A_2-319p03.q1kw	32786130-32788393
534	S6A_2-251i9.q1k	30927796-30930045	1408	S6A_3-68k17.q1k	32787740-32790461
535	S6C_2-456f05.q1kw	30929953-30932748	1409	S6A_2-352m06.p1kw	32790223-32792480
536	6S17_2-105j08.q1k	30932711-30935689	1410	S6A_2-32i22.q1kk	32792223-32794599
537	S6C_2-681p03.p1kw	30935107-30937523	1411	6S17_2-43d23.q1kkw	32794482-32797049

538	S6A_2-593h07.p1kw	30937423-30939690	1412	S6A_2-524h08.q1kw	32796793-32799124
539	6S17_2-743c18.p1kw	30939677-30942406	1413	S6C_2-38f08.q1kkw	32799001-32801669
540	S6C_2-38e05.p1kkw	30942377-30944894	1414	6S17_2-65g22.p1kkw	32801443-32804134
541	S6A_2-112o09.q1k	30944554-30947737	1415	6S17_2-503c16.p1ka	32803977-32805579
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543	S6C_2-95h02.p1kkw	30950261-30953164	1417	S6C_2-673n03.q1kw	32808098-32810522
544	6S17_2-608d19.p1kw	30953134-30955521	1418	S6A_3-80h20.q1kw	32810462-32813136
545	S6A_2-390n13.q1kw	30955170-30957387	1419	S6C_2-311k23.q1kw	32812745-32815129
546	6S17_2-130a06.p1kw	30958243-30959538	1420	S6C_2-396h19.q1kw	32815428-32817674
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548	6S17_2-223h10.q1kw	30963100-30965641	1422	S6C_2-467b14.q1kw	32820315-32822012
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551	S6C_2-647b05.p1kw	30970412-30972863	1425	6S17_2-194j14.p1kw	32827724-32830188
552	6S17_2-659i16.q1ka	30971526-30973515	1426	S6A_2-202k06.q1k	32829829-32831757
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555	6S17_2-427a23.q1kw	30975839-30978776	1429	S6A_2-707o03.q1kw	32836042-32838492
556	S6C_2-512e02.q1kw	30978723-30981078	1430	S6C_3-155c20.q1kw	32838552-32841749
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559	S6C_3-163g12.q1kw	30985302-30988517	1433	S6A_2-76a06.p1kk	32845054-32847632
560	S6A_2-539d10.p1kw	30988302-30990472	1434	S6C_3-121i19.p1kw	32847268-32850579
561	6S17_2-689o12.q1ka	30989831-30991848	1435	S6C_2-533e13.p1kw	32850451-32852327
562	6S17_2-577d11.q1kw	30991536-30994461	1436	6S17_2-416a11.p1kw	32852839-32854860
563	S6A_2-593o01.p1kw	30994321-30996758	1437	S6C_2-13i19.p1kkw	32854944-32857422
564	6S17_2-297a07.q1kw	30996377-30998924	1438	S6A_2-537m15.q1kw	32857226-32859895
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566	S6C_2-65d23.p1kkw	31000783-31003351	1440	S6C_2-8b06.q1k1kw	32861678-32864080
567	S6A_2-308g24.q1k	31003193-31004700	1441	6S17_2-4l02.p1kkw	32864146-32866475
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569	6S17_2-210i20.p1kw	31008066-31011171	1443	S6A_2-71k05.q1kk	32868718-32871367
570	S6A_2-395o17.p1kw	31010755-31013344	1444	S6C_2-29d18.p1kkw	32870242-32872810
571	S6C_2-173a10.q1kw	31012161-31014603	1445	6S17_2-707a20.q1kw	32872192-32874816
572	S6C_2-461d02.q1kw	31014145-31016926	1446	S6C_2-491n17.p1kw	32875022-32877556
573	6S17_2-261e17.q1kw	31016455-31019006	1447	S6C_2-73f13.q1kkw	32877232-32879913
574	S6A_2-249k15.q1k	31018945-31021138	1448	6S17_2-792p12.p1kw	32879848-32882714
575	S6C_2-106h13.p1kw	31021804-31024362	1449	6S17_2-443g24.q1kw	32882666-32885237
576	6S17_2-283h21.q1kw	31023710-31026101	1450	6S17_2-489m04.q1ka	32884378-32888315
577	6S17_2-134i19.q1k	31024896-31027536	1451	S6A_2-200a10.q1k	32888310-32890611
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587	S6A_3-82n18.q1kw	31046807-31049652	1461	S6C_2-6b19.p1k1kw	32910640-32913557
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594	6S17_2-243k16.q1kw	31063977-31066740	1468	S6A_2-155a02.q1k	32926466-32928563
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596	6S17_2-747l02.p1kw	31067896-31070375	1470	6S17_2-558e05.p1kw	32931156-32933975
597	6S17_2-111i04.p1k	31070293-31072989	1471	S6A_2-366i02.q1k	32934213-32936868
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602	S6A_2-628k06.p1kw	31082951-31085201	1476	S6C_2-582n10.p1kw	32946350-32948854
603	S6A_2-341o10.q1kw	31085463-31087839	1477	S6A_2-312i15.p1k	32948866-32951226
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605	6S17_2-174j09.q1kw	31089661-31092148	1479	6S17_2-404o22.q1kw	32953922-32956499
606	6S17_2-277m11.q1kw	31092038-31094660	1480	S6C_2-573p22.q1kw	32956699-32959028
607	S6A_3-27m20.p1kw	31094594-31096414	1481	6S17_2-425m20.q1kw	32959057-32961622
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613	6S17_2-512n05.q1ka	31107406-31110072	1487	S6C_2-70m16.q1kkw	32970390-32972719
614	S6C_2-175l08.p1kw	31110005-31112753	1488	S6C_2-309c03.p1kw	32972559-32975260
615	S6C_2-169c05.q1kw	31112554-31114212	1489	S6A_2-136a23.p1kw	32974464-32976746
616	S6A_2-427l24.q1kw	31114131-31116679	1490	S6A_2-57j17.q1k	32975782-32978196
617	S6A_2-442i22.q1kw	31116594-31118888	1491	S6C_2-742h15.q1kw	32977812-32980308
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624	S6A_2-501b06.q1kw	31133473-31135674	1498	S6C_2-107e13.p1kw	32994469-32996313
625	6S17_2-600c14.p1kw	31135453-31137997	1499	6S17_2-175o05.q1kw	32997141-32999893
626	S6A_2-691h12.q1kw	31137718-31140234	1500	S6A_2-341a24.q1kw	32999284-33001846
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632	S6A_2-487i01.q1kw	31151512-31153971	1506	6S17_2-555m24.q1kw	33013335-33016294
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635	6S17_2-165i03.p1kw	31159096-31161573	1509	6S17_2-227c12.q1kw	33018847-33021797

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638	S6C_2-657k11.q1kw	31164441-31167208	1512	6S17_2-579l12.p1kw	33025410-33027740
639	S6C_2-106p24.q1kw	31167061-31169514	1513	S6A_3-73k11.q1kw	33027231-33028946
640	S6C_2-634b11.q1kw	31169525-31171268	1514	S6C_2-760m04.q1kw	33030142-33032566
641	6S17_2-63f24.p1kkw	31171953-31174307	1515	S6A_2-473a20.p1kw	33032205-33034703
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645	S6A_2-726a13.q1kw	31181088-31183032	1519	6S17_2-475p23.q1kw	33042434-33045220
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647	6S17_2-154o06.q1kw	31185615-31188154	1521	6S17_2-408b06.p1kw	33047336-33050005
648	S6C_2-422j01.q1kw	31188134-31190923	1522	S6C_2-586p10.p1kw	33049800-33052268
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650	6S17_2-47d01.q1kkw	31192661-31195203	1524	6S17_2-768m02.p1kw	33054039-33055840
651	S6A_2-243n07.p1k	31194823-31197212	1525	6S17_2-135p02.q1k	33056054-33058064
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653	S6C_2-255j16.q1kw	31199321-31201771	1527	6S17_2-207h21.q1kw	33060224-33062639
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655	S6A_2-52c15.q1k	31202242-31204477	1529	S6C_2-110e10.q1kw	33065138-33067726
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659	S6A_2-669e08.q1kw	31210638-31213069	1533	6S17_2-681n12.p1kw	33074648-33077274
660	S6A_2-622e10.p1kw	31212921-31215388	1534	S6C_2-512f05.p1kw	33077075-33079961
661	S6A_2-701o19.p1kw	31214656-31216338	1535	S6C_2-109m03.p1kw	33079784-33082134
662	S6C_2-648k13.p1kw	31216802-31219415	1536	S6A_2-203l11.q1k	33082017-33084690
663	S6A_2-453m14.p1kw	31218410-31220616	1537	S6C_2-674e02.q1kw	33084323-33086976
664	S6A_2-236p08.q1k	31220446-31222717	1538	S6C_2-549e16.q1kw	33086287-33088714
665	S6C_3-155l19.p1kw	31222362-31224372	1539	6S17_2-320l11.q1kw	33087937-33091006
666	S6A_2-413e05.q1kw	31223806-31226366	1540	S6C_2-249g19.q1kw	33090674-33093215
667	S6A_3-28b01.q1kw	31225916-31227687	1541	6S17_2-485b11.q1kw	33092818-33095473
668	6S17_2-109h09.p1k	31228175-31230000	1542	S6A_2-51e24.p1k	33095115-33096836
669	S6A_2-63n06.q1kk	31230075-31232289	1543	S6A_2-113b04.q1k	33097613-33099941
670	S6C_2-545i11.q1kw	31232418-31234768	1544	6S17_2-789m03.q1kw	33099436-33102011
671	S6A_2-244j06.q1k	31234150-31236355	1545	6S17_2-806o23.p1kw	33101501-33103579
672	S6C_2-299a09.p1kw	31236895-31239353	1546	S6C_2-493j16.p1kw	33104021-33106350
673	6S17_2-151c03.p1kw	31239086-31242153	1547	S6C_2-107k04.p1kw	33106390-33108236
674	6S17_2-234o12.q1kw	31240879-31243323	1548	S6C_2-703o23.p1ka	33107152-33109639
675	S6A_3-62p09.p1kw	31243178-31246367	1549	S6A_2-243e06.p1k	33109482-33111869
676	6S17_2-205b19.q1kw	31245969-31248699	1550	6S17_2-747n05.q1kw	33112049-33114719
677	6S17_2-744m17.p1kw	31248662-31251239	1551	S6C_2-365m07.q1kw	33113667-33116173
678	6S17_2-131o19.q1k	31250863-31253884	1552	S6A_2-272a11.p1k	33115900-33118153
679	S6A_2-523g07.p1kw	31253774-31256044	1553	S6C_2-236e05.p1kw	33117354-33120123
680	S6A_2-37f08.q1kk	31256049-31258433	1554	6S17_2-96g02.p1kk	33119492-33121227
681	6S17_2-262d14.p1kw	31258475-31261419	1555	S6A_2-673f06.p1kw	33121204-33123602
682	6S17_2-202c02.p1kw	31261110-31263621	1556	S6A_2-458p15.q1kw	33123473-33125541
683	6S17_2-209o15.p1kw	31262795-31265512	1557	6S17_2-537g22.p1ka	33125489-33127433
684	S6C_2-509p24.q1kw	31265504-31267886	1558	S6A_2-534n13.q1kw	33128270-33130623

685	6S17_2-249o01.q1kw	31267843-31270674	1559	S6A_2-29i03.p1kk	33130078-33132394
686	6S17_2-363i22.p1kw	31270669-31273172	1560	S6A_2-135h18.p1kw	33132309-33134479
687	6S17_2-457g21.p1kw	31272355-31275387	1561	S6A_2-317b17.q1k	33133928-33138288
688	S6A_2-635f19.p1kw	31275343-31277509	1562	S6C_2-647g11.q1kw	33138219-33141006
689	S6C_2-218i07.p1kw	31277684-31280326	1563	6S17_2-618j17.q1kw	33141083-33142900
690	S6C_2-191e11.p1kw	31279197-31281009	1564	6S17_2-124e21.q1k	33142984-33145436
691	6S17_2-659l11.q1ka	31282010-31284107	1565	S6A_2-693p14.p1kw	33144119-33146299
692	S6C_3-133b12.q1kw	31285006-31288198	1566	S6C_2-495l17.p1kw	33146226-33148958
693	S6A_2-517f09.p1kw	31288155-31290534	1567	S6C_2-261i05.q1kw	33148418-33151260
694	S6C_2-184k17.q1kw	31290270-31293226	1568	6S17_2-77b10.q1kkw	33150708-33153101
695	6S17_2-106j08.p1k	31292775-31295165	1569	S6C_2-296n21.p1kw	33152888-33155357
696	6S17_2-284a02.q1kw	31295127-31297047	1570	6S17_2-190j14.q1kw	33155406-33158145
697	6S17_2-806m20.p1kw	31297137-31298930	1571	6S17_2-250c19.q1kw	33157976-33160566
698	6S17_2-304j16.q1kw	31299583-31302103	1572	S6A_2-594m04.q1kw	33159764-33161477
699	S6A_2-672b02.p1kw	31302095-31304664	1573	stSG1159389	33161371-33162818
700	6S17_2-762l22.p1kw	31304652-31307456	1574	6S17_2-109i12.p1k	33162178-33164006
701	S6C_2-84b09.p1kkw	31306864-31309399	1575	S6C_2-220g01.p1kw	33163960-33166516
702	S6C_2-291f21.q1kw	31309154-31310921	1576	S6A_2-269p11.p1k	33166439-33168753
703	6S17_2-411o22.p1kw	31311254-31313868	1577	S6A_2-553k12.p1kw	33168409-33170259
704	6S17_2-251i18.p1kw	31313866-31315916	1578	S6A_2-215a19.q1k	33169768-33172038
705	S6C_2-136n04.p1kw	31315627-31318295	1579	S6C_2-741o21.p1kw	33171878-33174286
706	6S17_2-568i13.p1kw	31317159-31321576	1580	S6C_2-513a18.q1kw	33174199-33176819
707	S6A_2-323m06.p1k	31321337-31323848	1581	S6A_2-256b09.p1k	33176769-33178915
708	S6A_2-80h01.p1kk	31323764-31326217	1582	6S17_2-143c10.q1kw	33179389-33182056
709	S6C_2-64d13.q1kkw	31325778-31328534	1583	S6A_2-269g05.p1k	33182207-33184791
710	S6A_3-85a12.p1kw	31328363-31331256	1584	S6C_2-560c24.p1kw	33184714-33187171
711	6S17_2-428p01.p1kw	31331246-31333604	1585	S6A_2-200e21.p1k	33187152-33188915
712	S6C_2-574b21.q1kw	31333527-31335887	1586	S6C_2-333e17.q1kw	33190199-33192634
713	6S17_2-641j16.p1kw	31335975-31338861	1587	6S17_2-705i03.q1ka	33192620-33193912
714	6S17_2-467o10.q1kw	31338592-31340579	1588	6S17_2-806h02.p1kw	33194560-33196721
715	S6A_2-89n04.p1kk	31340738-31342871	1589	6S17_2-45m23.q1kkw	33196915-33199698
716	S6C_2-414g11.q1kw	31343087-31345560	1590	S6C_2-760k02.p1kw	33198578-33201144
717	S6A_2-447o17.q1kw	31345147-31347528	1591	6S17_2-685o15.p1ka	33201104-33203350
718	S6C_2-100k04.p1kw	31347352-31349944	1592	S6A_2-564p14.p1kw	33203545-33205377
719	S6C_2-242e22.q1kw	31349918-31352712	1593	6S17_2-174o15.p1kw	33205658-33208356
720	6S17_2-646n05.q1kw	31352523-31355086	1594	6S17_2-704j05.q1ka	33208179-33210083
721	S6A_2-753n21.p1kw	31354494-31357371	1595	S6A_2-42f12.p1k	33210173-33212682
722	S6A_2-11m01.q1k	31356275-31358547	1596	S6A_2-551o02.p1kw	33211780-33213487
723	S6A_2-146n23.q1k	31358328-31360082	1597	S6A_2-62g11.q1k	33213814-33215866
724	6S17_2-642d20.q1kw	31360825-31362921	1598	S6A_2-97b07.q1kk	33215866-33218460
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726	S6A_2-579i17.q1kw	31365145-31367681	1600	6S17_2-690m19.p1kw	33219995-33222707
727	S6A_2-151a18.p1k	31367358-31369739	1601	S6C_2-173c11.p1kw	33222660-33225492
728	S6C_2-328g03.q1kw	31369850-31372247	1602	S6C_2-562a24.q1kw	33225441-33227983
729	S6C_2-118e16.p1kw	31372023-31374900	1603	S6C_2-464m12.q1kw	33227950-33230409
730	6S17_2-539d20.p1kw	31373910-31376551	1604	6S17_2-599d16.p1kw	33230323-33232862
731	S6A_3-76a07.q1kw	31376096-31377899	1605	S6C_2-188n16.q1kw	33232836-33235623
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733	S6A_2-527e19.q1kw	31379976-31382140	1607	6S17_2-436l23.p1kw	33238447-33240806

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735	6S17_2-560n07.q1kw	31383618-31385658	1609	6S17_2-472j14.p1kw	33242318-33244782
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741	S6C_2-127c21.p1kw	31397092-31399917	1615	S6C_2-476j16.p1kw	33255894-33258084
742	S6C_2-52a11.p1kkw	31399278-31403895	1616	S6C_2-523j21.p1kw	33258306-33261017
743	S6C_2-398j12.p1kw	31403562-31405377	1617	S6A_2-33i07.p1k	33260428-33262435
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745	6S17_2-556c06.p1kw	31407745-31410625	1619	6S17_2-349p20.p1kw	33263540-33266027
746	S6A_2-205l16.p1k	31410312-31412594	1620	S6A_2-718o10.q1kw	33265657-33267969
747	S6C_2-525h16.q1kw	31410804-31413338	1621	S6C_2-547n02.p1kw	33267769-33270333
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749	S6A_3-69h21.q1k	31415829-31418487	1623	S6C_2-619j20.q1kw	33272867-33275324
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751	S6C_2-315o12.q1kw	31419326-31421777	1625	S6A_2-575c03.q1kw	33276854-33279042
752	S6C_2-686e07.q1kw	31421730-31424152	1626	S6C_2-141a12.p1kw	33279164-33281784
753	6S17_2-489c22.p1ka	31423462-31425292	1627	S6C_3-128c17.q1kw	33281188-33283958
754	S6A_2-697o17.p1kw	31425276-31427539	1628	6S17_2-355a04.p1kw	33283836-33286387
755	S6C_2-328g10.p1kw	31427156-31429633	1629	S6C_2-551e11.p1kw	33286034-33288603
756	S6C_2-448h13.q1kw	31429070-31431658	1630	S6A_2-263p12.q1k	33288292-33290935
757	S6C_2-437h19.p1kw	31431405-31434315	1631	S6C_2-417b17.p1kw	33289579-33292051
758	S6A_2-523o03.p1kw	31433998-31436656	1632	S6C_2-63h24.q1kkw	33292021-33293767
759	6S17_2-683e04.p1kw	31435990-31438961	1633	S6C_2-494i08.p1kw	33294111-33296809
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761	S6A_2-180o24.p1k	31441096-31443372	1635	S6C_2-667p14.q1kw	33298375-33301049
762	S6A_2-596o19.p1kw	31442467-31444925	1636	S6C_2-64k23.q1kkw	33300951-33303804
763	S6A_2-304h03.p1k	31444860-31447238	1637	S6C_2-212b13.q1kw	33303485-33305809
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766	6S17_2-30e24.p1kkw	31451728-31454419	1640	6S17_2-431d15.p1kw	33309748-33312124
767	S6C_2-84a09.p1kkw	31454436-31456982	1641	S6A_2-602d01.p1kw	33311515-33313909
768	S6C_2-545g21.q1kw	31456974-31459366	1642	S6A_2-122a05.p1k	33313472-33315325
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771	S6C_3-126a12.p1kw	31463966-31467008	1645	6S17_2-301i14.p1kw	33320016-33322458
772	S6C_3-114o20.p1k	31466903-31470124	1646	S6A_2-270o06.q1k	33322331-33324713
773	S6C_2-311i13.q1kw	31470091-31472561	1647	S6A_2-233i02.q1k	33324387-33326855
774	S6C_2-324h03.p1kw	31472505-31475307	1648	S6C_2-117k15.q1kw	33326481-33329320
775	S6C_2-2h19.p1k1kw	31474983-31477045	1649	6S17_2-760c09.p1kw	33328484-33331034
776	S6A_2-137n09.p1k	31477351-31479645	1650	S6C_2-250d23.p1kw	33331019-33333605
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778	S6A_2-420i23.p1kw	31481894-31483829	1652	S6C_2-80j01.q1kkw	33335676-33338157
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780	6S17_2-431p03.q1kw	31485229-31487901	1654	6S17_2-356g24.q1kw	33340424-33343221
781	S6A_2-755o05.q1kw	31487731-31490992	1655	S6C_2-54g22.p1kkw	33343143-33345886
782	S6A_2-574h15.q1kw	31490983-31493112	1656	S6C_2-712a15.p1kw	33345817-33348484



783	S6A_3-71c12.q1k	31492606-31495592	1657	S6A_2-353i24.q1k	33348267-33350788
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786	S6A_2-173a20.q1k	31498765-31501407	1660	S6C_2-450i05.p1kw	33355252-33357951
787	S6A_2-424b19.p1kw	31501428-31503919	1661	S6A_2-324b05.p1kw	33357745-33360383
788	S6A_2-263b12.p1k	31501672-31503750	1662	6S17_2-150j22.p1kw	33360060-33362545
789	6S17_2-421j19.p1kw	31505209-31507825	1663	S6C_2-212a02.q1kw	33362395-33365052
790	S6A_2-209i18.q1k	31507238-31509555	1664	6S17_2-685i13.p1ka	33365027-33366857
791	6S17_2-763n22.q1ka	31509279-31511644	1665	S6A_2-467m07.p1k	33366393-33368870
792	S6A_3-64a01.q1kw	31511491-31514354	1666	S6A_2-691m12.p1kw	33368638-33371042
793	S6A_2-152g09.p1kw	31513524-31515946	1667	6S17_2-106e19.p1k	33370646-33372739
794	S6A_2-415c09.q1kw	31515789-31518599	1668	S6C_2-440i18.q1kw	33372651-33375048
795	S6C_2-450h05.p1kw	31517732-31520447	1669	6S17_2-163a14.q1kw	33374801-33377421
796	S6A_2-211e08.p1k	31520143-31522818	1670	6S17_2-759b13.q1kw	33377380-33379900
797	S6A_2-195b05.p1k	31522428-31524251	1671	S6A_2-494k23.p1kw	33379710-33382163
798	S6A_2-29k22.q1kk	31524921-31527446	1672	6S17_2-240f19.p1kw	33381961-33384834
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800	6S17_2-165k08.q1kw	31529042-31534960	1674	6S17_2-205b08.p1kw	33387409-33389702
801	6S17_2-98g13.q1kk	31534938-31537493	1675	S6A_2-182a16.q1k	33389687-33392295
802	S6C_2-387j18.q1kw	31536940-31539145	1676	S6A_3-52b11.q1kw	33391099-33394400
803	S6A_2-112a20.p1k	31539384-31542372	1677	6S17_2-187k03.p1kw	33394268-33396753
804	6S17_2-704e03.p1ka	31541574-31544203	1678	S6C_3-118k06.q1k	33397103-33400166
805	S6C_2-323p21.q1kw	31544177-31546543	1679	S6C_3-100a24.p1kw	33400120-33401889
806	S6A_2-649c07.p1kw	31546522-31549182	1680	S6C_2-730m19.p1kw	33402283-33404883
807	S6C_2-331b01.p1kw	31548571-31550755	1681	6S17_2-65h12.p1kkw	33404647-33406909
808	S6A_2-480m10.p1kw	31551026-31552843	1682	S6A_3-31l21.p1kw	33406383-33409272
809	6S17_2-40d18.p1kkw	31553280-31555425	1683	S6C_2-185c06.p1kw	33409216-33411913
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811	S6A_2-285a02.q1k	31558217-31560371	1685	S6A_2-107f11.q1k	33413392-33416765
812	S6C_2-422p06.q1kw	31559795-31562434	1686	6S17_2-344g06.p1kw	33416544-33419346
813	S6A_2-245f06.p1k	31562288-31564901	1687	6S17_2-211f01.q1kw	33418703-33421177
814	6S17_2-516j14.p1kw	31564829-31567403	1688	6S17_2-17p09.p1kkw	33420924-33423511
815	S6C_2-497m03.p1kw	31567390-31569981	1689	S6C_2-37h08.q1kkw	33423446-33426238
816	S6C_2-165l22.q1kw	31569152-31571627	1690	S6A_2-143b07.p1kw	33425991-33428532
817	S6C_2-500e18.q1kw	31570582-31572998	1691	S6A_3-16n09.q1kw	33428168-33431405
818	6S17_2-461n18.p1kw	31572759-31575340	1692	S6A_2-341d02.q1kw	33431263-33433534
819	S6C_2-770h15.p1kw	31575231-31578232	1693	S6C_2-121d04.p1kw	33433496-33436132
820	S6A_2-335a24.q1kw	31578226-31580534	1694	S6C_2-642f18.q1kw	33435835-33438369
821	6S17_2-523h22.q1kw	31581123-31584021	1695	S6C_2-329k09.q1kw	33438295-33441008
822	S6A_2-5d19.p1k	31583533-31585907	1696	S6A_2-76k03.p1kk	33440884-33443383
823	S6A_2-64a13.q1kk	31586135-31588613	1697	S6A_3-68i20.p1k	33443201-33446017
824	S6C_2-207b20.p1kw	31588415-31591252	1698	6S17_2-719c10.p1kw	33445832-33448263
825	6S17_2-153a03.p1kw	31591171-31593942	1699	S6C_2-350f07.p1kw	33448064-33450859
826	S6A_2-602c13.q1kw	31593932-31596449	1700	S6A_2-188l24.p1k	33450625-33452501
827	S6C_2-530o15.p1kw	31595921-31598452	1701	S6A_2-62e18.p1k	33453010-33455403
828	6S17_2-792d24.q1kw	31598450-31601042	1702	6S17_2-72j09.q1kkw	33455266-33457876
829	S6A_3-58e13.p1kw	31600714-31603500	1703	S6C_2-605l03.q1kw	33457235-33459637
830	S6A_2-505f15.q1kw	31602298-31604502	1704	6S17_2-146i11.p1kw	33459300-33462283
831	S6A_2-415h04.q1kw	31604437-31607304	1705	S6C_2-420g20.q1kw	33462560-33465285

832	S6A_2-385h12.q1kw	31607131-31609387	1706	S6A_2-82k10.q1kk	33463903-33466555
833	6S17_2-18o11.p1kkw	31609652-31612281	1707	S6C_2-550k12.q1kw	33466498-33468984
834	S6A_2-611k13.p1kw	31612719-31614689	1708	S6C_2-437e15.q1kw	33469103-33471584
835	S6C_2-216a10.p1kw	31614898-31617590	1709	6S17_2-176l13.q1kw	33471362-33473730
836	S6A_2-172p21.q1k	31617564-31620016	1710	S6A_2-339j01.p1k	33473556-33475839
837	S6C_2-225p03.p1kw	31619220-31621528	1711	6S17_2-707d09.p1kw	33475862-33478335
838	6S17_2-238h24.p1kw	31621456-31623166	1712	S6A_2-527d21.q1kw	33478219-33480655
839	S6A_2-28p19.p1k	31624227-31626500	1713	S6C_2-321d06.q1kw	33480339-33482959
840	S6A_2-631l19.p1kw	31626425-31628785	1714	S6C_2-297j01.p1kw	33482783-33485490
841	S6A_2-203k21.p1k	31628748-31631153	1715	6S17_2-265n22.p1kw	33484055-33486337
842	6S17_2-428j05.q1kw	31630655-31633551	1716	S6C_2-476o22.p1kw	33486314-33488262
843	6S17_2-622j13.p1kw	31633077-31634986	1717	S6C_2-247m14.q1kw	33488661-33491053
844	S6C_2-682i12.p1kw	31635389-31637920	1718	S6C_2-707g09.p1kw	33490963-33493613
845	6S17_2-414a03.q1kw	31637916-31640706	1719	S6C_2-176n16.q1kw	33493246-33495524
846	6S17_2-43g16.q1kkw	31640554-31642280	1720	S6C_2-260l12.q1kw	33495473-33497978
847	S6A_2-526n02.p1kw	31641500-31644075	1721	6S17_2-62i20.q1kkw	33497634-33500208
848	S6C_2-205e06.q1kw	31643852-31646335	1722	S6A_2-222f12.q1k	33498741-33500976
849	S6A_2-550c18.p1kw	31647311-31649827	1723	6S17_2-537l09.p1ka	33501985-33503886
850	S6C_2-591j16.q1kw	31649837-31652271	1724	S6C_2-232h16.p1kw	33503008-33505329
851	6S17_2-558f04.p1kw	31651482-31654336	1725	S6A_2-588i03.q1kw	33504498-33506676
852	S6C_2-377j17.p1kw	31653977-31656641	1726	6S17_2-304k12.q1kw	33506716-33509202
853	6S17_2-283o09.p1kw	31656398-31658063	1727	S6C_2-267n12.q1kw	33509038-33511425
854	S6A_2-676b19.p1kw	31658687-31661288	1728	S6A_2-45a04.q1kk	33511328-33513089
855	S6A_2-294i05.q1k	31661214-31662958	1729	6S17_2-705p22.p1ka	33513248-33516058
856	6S17_2-63h20.p1kkw	31662312-31665020	1730	S6C_2-27o04.q1kkw	33515150-33517773
857	S6C_2-465p11.p1kw	31664610-31667272	1731	S6A_2-100j09.p1k	33518216-33520763
858	S6A_2-35c03.q1kk	31667243-31669668	1732	S6C_2-624p15.p1kw	33520343-33522986
859	S6C_2-18i18.p1kkw	31669661-31672263	1733	6S17_2-655j23.q1ka	33522488-33524201
860	S6C_2-96o12.q1kkw	31671730-31673485	1734	S6C_2-440i03.p1kw	33523883-33525523
861	6S17_2-677h04.p1ka	31673197-31676154	1735	S6A_2-182k21.q1k	33525617-33527854
862	S6C_2-696e10.p1kw	31676093-31678464	1736	6S17_2-397g03.p1kw	33528186-33530929
863	S6A_2-278l01.p1k	31678683-31681025	1737	S6C_2-417o08.q1kw	33529999-33532371
864	S6A_2-751a07.p1kw	31679841-31681916	1738	S6A_2-395c21.p1kw	33531720-33534078
865	S6C_2-649k23.p1kw	31682232-31685102	1739	S6A_2-3b11.q1k	33534211-33536223
866	S6C_2-380h19.p1kw	31684907-31687727	1740	6S17_2-483a04.q1kw	33536400-33539103
867	S6C_2-547i07.p1kw	31687714-31690387	1741	6S17_2-222m10.p1kw	33538830-33541653
868	6S17_2-203n20.q1kw	31689689-31692751	1742	S6C_2-182d13.q1kw	33541330-33543791
869	S6C_3-101m14.q1kw	31691844-31694777	1743	S6C_2-334e12.q1kw	33543877-33546708
870	S6A_2-694n21.p1kw	31694041-31696414	1744	6S17_2-713p24.q1kw	33546168-33548761
871	S6A_2-52n07.p1k	31696264-31698456	1745	S6A_2-218f17.q1k	33547521-33549822
872	S6A_2-666b08.p1kw	31697728-31700057	1746	S6A_2-466c09.p1k	33549821-33552084
873	6S17_2-368a11.p1kw	31700030-31702827	1747	S6C_2-470m11.p1kw	33552081-33554763
874	S6C_2-628n07.p1kw	31702678-31705254			

Table 2.2. Names and chromosome 6 coordinates (NCBI\_35) of the clones used for the MHC tiling array.

CD8 v PLACENTA					PLACENTA v SPERM				
	Start.coord	End.coord	M	P.Value		Start.coord	End.coord	M	P.Value
1	30228982	30231712	0.653629	0.000611	56	29937894	29939594	0.962559	0.00069976
LIVER v PLACENTA					LIVER v SPERM				
	Start.coord	End.coord	M	P.Value		Start.coord	End.coord	M	P.Value
2	29889483	29892066	0.738334	0.000869	57	30000805	30003606	0.898938	0.00059084
3	30491424	30493923	0.761044	0.000197	58	30228982	30231712	-0.744124	8.74E-05
4	31709197	31711626	-0.872107	0.000162	59	30484481	30486798	-0.714068	0.00025428
5	32056738	32058031	-0.963175	8.14E-05	60	30491424	30493923	-0.778861	9.83E-05
6	32067481	32068550	-0.714901	2.81E-05	61	30526624	30528439	1.490191	6.55E-05
7	32074474	32074660	-0.912389	3.39E-05	62	30534798	30537070	-0.911697	0.00026108
8	32077678	32079121	-0.978122	8.72E-06	63	30731648	30734384	1.29065	3.22E-06
9	32081199	32081780	-0.770113	0.00076	64	30881555	30884300	0.771825	0.00018371
10	32090749	32092076	-0.811636	0.000459	65	30891136	30893651	0.853398	2.39E-05
11	32104734	32105602	-0.55281	0.000383	66	31092038	31094660	0.82443	0.00090522
12	32107212	32107398	-1.117908	1.49E-08	67	31270669	31273172	0.814419	1.19E-05
13	32110416	32111859	-0.85967	1.67E-05	68	31454436	31456982	-0.553736	0.00091332
14	32590480	32591619	-0.958434	1.65E-05	69	31841070	31843352	0.871871	0.00070662
LIVER v CD8					LIVER v SPERM				
	Start.coord	End.coord	M	P.Value		Start.coord	End.coord	M	P.Value
15	30247370	30249040	0.813238	7.91E-06	70	32115381	32116535	-0.85392	0.00010511
16	30565890	30568365	0.635978	9.96E-05	71	32223988	32226638	0.943871	0.00025358
17	32056738	32058031	-0.803751	0.000119	72	32836042	32838492	1.499562	1.61E-06
18	32067481	32068550	-0.654797	3.71E-05	73	33132309	33134479	-0.987847	0.00050575
19	32074474	32074660	-0.743694	0.000274	74	33389687	33392295	1.426845	1.69E-07
20	32077678	32079121	-0.919853	4.12E-05	75	33450625	33452501	0.965143	0.00027171
21	32088718	32090526	-0.886511	0.000224		CD8 v SPERM			
22	32107212	32107398	-0.831638	3.15E-07	76	Start.coord	End.coord	M	P.Value
23	32110416	32111859	-0.766263	3.65E-06	77	29823989	29826356	0.686032	0.00080629
24	32590480	32591619	-0.619532	0.000469	78	29830203	29832660	0.802217	0.00065693
25	33372651	33375048	-0.819691	1.98E-05	79	29937894	29939594	1.138717	0.0007233
LIVER v SPERM					80	30527803	30529467	0.898271	9.03E-05
	Start.coord	End.coord	M	P.Value	81	30565890	30568365	-0.662875	9.24E-05
26	29823989	29826356	0.65412	0.000573	82	30721858	30724158	0.814142	0.00025511
27	30247370	30249040	1.555232	1.33E-07	83	30731648	30734384	1.364174	2.61E-06
28	30527803	30529467	0.894699	0.000198	84	30881555	30884300	0.63042	0.00042592
29	30731648	30734384	1.458403	1.46E-08	85	30891136	30893651	0.686268	8.80E-05
30	30891136	30893651	0.798895	1.45E-05	86	31270669	31273172	0.669456	5.03E-05
31	31092038	31094660	0.867882	0.000286	87	31803609	31806450	1.269115	0.00068925
32	31270669	31273172	0.7429	1.25E-05	88	32836042	32838492	1.729655	2.77E-07
33	31709197	31711626	-0.72996	0.000348	89	33192620	33193912	0.771141	0.00075793
34	31803609	31806450	1.300837	0.000273	90	33389687	33392295	1.560515	3.74E-07
35	32020686	32023216	-1.222297	6.42E-05		32659407	32660508	0.84688	0.00035068
36	32056738	32058031	-0.904856	1.59E-05					
37	32067481	32068550	-0.762318	1.59E-05					
38	32071709	32072864	-0.756704	1.40E-05					
39	32073608	32074514	-0.71949	0.000216					
40	32074474	32074660	-0.987143	5.42E-05					
41	32077678	32079121	-1.333444	2.96E-09					
42	32088659	32090434	-0.884048	0.000159					
43	32092057	32093147	-0.82539	0.000796					
44	32094350	32095101	-0.677409	0.000259					
45	32098656	32099323	-0.730227	8.63E-05					
46	32099573	32100214	-0.875286	4.03E-05					
47	32104734	32105602	-0.713212	1.34E-05					
48	32107212	32107398	-0.944333	1.47E-07					
49	32109195	32110435	-0.770992	0.000114					
50	32119000	32120024	-0.570658	0.000326					
51	32590480	32591619	-0.95534	1.51E-06					
52	32622631	32625110	0.658602	0.000744					
53	32817677	32820582	0.844115	9.91E-06					
54	32836042	32838492	1.38817	3.03E-06					
55	33389687	33392295	1.15599	2.62E-06					

**Table 4.1 tDMRs within the MHC region.** A total of 90 tDMRs were identified. Six pair-wise comparisons were performed and, in total, 90 tDMRs were identified using t-statistics. tDMRs of

each comparison and their co-ordinates on chromosome 6 are provided. M values which are equivalent to the  $\log_2$  ratio of the two corresponding methylation profiles in each comparison are shown. A threshold of p-value <0.001 was used. P-values of the 90 tDMRs are provided.

Clone name	chromosome 6 coordinate (NCBI_35)	
	6S17_2_149n23	30527803
6S17_2_213f19	30881555	30884300
6S17_2_580e24	29937894	29939594
6S17_2_705i03	33192620	33193912
S6A_2_188i24	33450625	33452501
S6A_2_367m01	31841070	31843352
S6A_2_454k03	30247370	30249040
S6A_2_48e04	32088718	32090526
S6A_2_50m21	29889483	29892066
S6A_2_707o03	32836042	32838492
S6C_2_161i01	30000805	30003606
S6C_2_310e17	30228982	30231712
S6C_2_736m04	30721858	30724158
S6C_3_122j09	30526624	30528439
stSG1159328	32079102	32080248
stSG1159349	32098656	32099323
stSG1159370	32115381	32116535
stSG1159388	36659407	32660508

Table 5.1 **DMRs common in both tDMR and pDMR screen.** A total of 18 DMRs identified in section 5.5.2 had been identified as tDMRs in chapter 4. These DMRs were removed from any further analysis for the pDMR screen (chapter 5).

**Table 5.2**

<b>CCRF-CEM</b>					
	<b>Clone Name</b>	<b>Start</b>	<b>End</b>	<b>M-value</b>	<b>p-value</b>
<b>1</b>	mtp_S6C_2_295c12	29767842	29770217	-0.56719	0.0002804
<b>2</b>	stSG1159305	29799299	29800711	0.690492	4.07E-07
<b>3</b>	mtp_S6A_2_349p03	29852518	29854940	0.595634	0.0007958
<b>4</b>	mtp_6S17_2_523e17	29899083	29901168	0.598125	0.0007759
<b>5</b>	mtp_6S17_2_333i22	29908506	29911028	0.480597	0.0004993
<b>6</b>	mtp_S6A_2_427m23	29921905	29924681	0.416954	0.0005401
<b>7</b>	mtp_S6C_2_233b21	29952327	29954750	0.763758	0.0003412
<b>8</b>	mtp_S6C_2_252b19	30081271	30083717	0.994879	2.07E-05
<b>9</b>	mtp_S6A_2_302b02	30083166	30085450	0.738726	5.81E-06
<b>10</b>	mtp_S6C_2_651k20	30152988	30155591	0.688175	0.0004019
<b>11</b>	mtp_6S17_2_550d16	30178743	30181378	1.397924	1.10E-08
<b>12</b>	mtp_S6C_2_724m20	30243167	30246046	0.558438	0.0007535
<b>13</b>	mtp_6S17_2_432i09	30711444	30713962	-0.46115	0.000808
<b>14</b>	mtp_S6A_2_126i05	30763012	30765292	1.62006	2.00E-10
<b>15</b>	mtp_6S17_2_130a06	30958243	30959538	0.732888	1.50E-06

16	mtp_6S17_2_261e17	31016455	31019006	0.709016	3.54E-05
17	mtp_S6C_2_24m19	31030830	31033294	-0.42393	2.04E-05
18	mtp_6S17_2_641j16	31335975	31338861	0.807199	0.0001693
19	mtp_S6C_2_437h19	31431405	31434315	0.926176	7.47E-06
20	mtp_S6C_2_323p21	31544177	31546543	-0.66098	0.0003248
21	mtp_S6A_2_285a02	31558217	31560371	-0.46492	0.0006089
22	mtp_6S17_2_406p23	31765370	31767911	-0.37426	0.0003661
23	mtp_S6A_2_474a15	31801630	31803851	-0.55334	0.0006669
24	mtp_S6C_2_47j02	31830687	31833596	-0.65185	0.0003632
25	mtp_S6A_2_139f17	32238133	32240410	-0.46266	0.0003004
26	mtp_S6A_2_518p02	32404753	32407328	0.625894	0.0007431
27	mtp_S6A_3_52o24	32476215	32479059	-0.60195	0.0001485
28	mtp_6S17_2_455p07	32491122	32493607	0.667301	6.70E-05
29	mtp_S6C_2_291o13	32539196	32541992	-0.561	0.0003876
30	mtp_S6A_2_718o07	32605193	32606885	0.768783	4.42E-05
31	mtp_S6C_2_766n01	32733611	32736437	0.606751	0.0004482
32	mtp_6S17_2_707a20	32872192	32874816	-0.49818	0.0008148
33	mtp_6S17_2_304j21	32890054	32892994	0.814173	0.000167
34	mtp_S6A_3_29p07	32928521	32931366	0.837205	0.000581
35	mtp_S6A_2_366i02	32934213	32936868	-0.64186	0.0002129
36	mtp_6S17_2_118i14	33020486	33022969	1.241087	4.06E-07
37	mtp_S6C_2_512f05	33077075	33079961	-0.59716	0.0001125
38	mtp_S6C_2_495i17	33146226	33148958	1.064771	3.58E-05
39	mtp_S6C_2_261i05	33148418	33151260	1.14691	0.0002159
40	mtp_6S17_2_109i12	33162178	33164006	-0.67207	1.90E-05
41	mtp_S6C_3_128c17	33281188	33283958	0.57968	0.0009564
42	mtp_S6C_2_551e11	33286034	33288603	0.761003	0.0002226
43	mtp_S6A_2_353i24	33348267	33350788	0.630111	1.54E-05
44	mtp_S6C_2_420g20	33462560	33465285	0.69955	7.90E-05
45	mtp_S6C_2_437e15	33469103	33471584	-0.71327	5.05E-05
46	mtp_6S17_2_537i09	33501985	33503886	0.667891	0.0002164
<b>Colo-205</b>					
	<b>Clone Name</b>	<b>Start</b>	<b>End</b>	<b>M-value</b>	<b>p-value</b>
47	mtp_S6A_2_126i05	30763012	30765292	1.21117	1.35E-08
48	mtp_6S17_2_118i14	33020486	33022969	1.326516	1.38E-08
49	mtp_6S17_2_577d11	30991536	30994461	-1.35874	2.84E-07
50	mtp_S6C_2_176n16	33493246	33495524	0.969393	3.85E-07
51	mtp_S6C_2_591j16	31649837	31652271	0.889856	1.26E-06
52	mtp_S6C_2_724m20	30243167	30246046	0.978553	2.24E-06
53	mtp_S6A_2_742g13	32710133	32712269	1.019544	3.51E-06
54	mtp_S6A_2_99j22	33015774	33018132	1.067542	5.12E-06
55	mtp_S6C_2_291o13	32539196	32541992	-0.81429	8.32E-06
56	mtp_S6A_3_29p07	32928521	32931366	1.142544	8.69E-06
57	mtp_S6C_2_525h16	31410804	31413338	-1.13893	8.94E-06
58	mtp_S6A_2_247f17	32609013	32611396	-0.74061	9.92E-06
59	mtp_6S17_2_75k18	30283371	30285180	-0.71881	1.59E-05
60	mtp_S6C_2_495i17	33146226	33148958	1.217834	1.73E-05
61	mtp_S6A_2_366o15	32203258	32205842	-1.07394	2.17E-05
62	mtp_S6C_2_256g20	29960874	29962955	0.687232	2.35E-05

63	mtp_S6C_2_494b13	32680961	32683760	0.621659	2.64E-05
64	mtp_6S17_2_304j21	32890054	32892994	1.080267	2.66E-05
65	mtp_6S17_2_163a14	33374801	33377421	-0.55412	3.12E-05
66	mtp_6S17_2_558f04	31651482	31654336	0.887192	4.93E-05
67	mtp_S6A_2_19j15	32941867	32944276	1.024239	5.56E-05
68	mtp_S6C_2_261i05	33148418	33151260	1.370677	7.68E-05
69	mtp_6S17_2_406p23	31765370	31767911	-0.5321	9.63E-05
70	mtp_S6C_2_728o04	31784795	31786680	-0.96111	9.87E-05
71	mtp_6S17_2_227c12	33018847	33021797	0.788601	0.0001023
72	mtp_6S17_2_537l09	33501985	33503886	0.615933	0.000138
73	mtp_6S17_2_461g23	30844326	30847065	-0.74669	0.0001416
74	mtp_S6A_2_550c18	31647311	31649827	0.816073	0.0002
75	mtp_6S17_2_333n04	32323976	32326426	-1.07325	0.000231
76	mtp_6S17_2_491n23	29863681	29866461	-1.14484	0.0002416
77	mtp_S6C_2_309c03	32972559	32975260	0.508227	0.0002526
78	stSG1159389	33161371	33162818	-0.6743	0.0002961
79	mtp_S6A_2_738e03	33045191	33047466	0.651116	0.0003096
80	mtp_S6A_2_155a02	32926466	32928563	0.659656	0.000343
81	mtp_6S17_2_150b10	31962270	31964146	-0.54269	0.0003518
82	mtp_S6C_2_323p21	31544177	31546543	-0.60766	0.0003693
83	mtp_S6C_2_468h02	30981054	30983803	-0.57288	0.0003835
84	mtp_S6C_2_106h13	31021804	31024362	0.434185	0.0003983
85	mtp_S6C_2_169c05	31112554	31114212	0.462286	0.0004366
86	mtp_S6A_2_593o01	30994321	30996758	-0.6159	0.0005327
87	mtp_6S17_2_705p22	33513248	33516058	-0.55752	0.000537
88	mtp_S6C_2_126m01	32689045	32691474	0.813405	0.0005809
89	mtp_6S17_2_689o12	30989831	30991848	-0.62209	0.0006024
90	mtp_6S17_2_503c16	32803977	32805579	0.797316	0.0006535
91	mtp_S6C_2_405j01	30476804	30479649	1.467248	0.0006538
92	mtp_S6A_2_401f24	31867881	31870208	-0.45313	0.0006707
93	mtp_S6A_2_495n14	32859507	32861730	1.215167	0.0007131
94	mtp_S6C_2_173a10	31012161	31014603	0.491818	0.0007713
95	mtp_6S17_2_355b09	32805771	32808229	0.736536	0.0008333
96	mtp_S6C_2_24m19	31030830	31033294	-0.36284	0.0008357
97	mtp_S6C_2_630p01	31849432	31852366	-0.76832	0.0009198
98	mtp_S6A_2_42g10	32222119	32224613	0.556036	0.0009527
99	mtp_6S17_2_77b10	33150708	33153101	0.83274	0.0009703
<b>H69</b>					
	<b>Clone Name</b>	<b>Start</b>	<b>End</b>	<b>M-value</b>	<b>p-value</b>
100	mtp_S6A_2_617f24	30758534	30760818	1.81176	4.18E-09
101	mtp_S6A_2_126l05	30763012	30765292	1.228218	7.13E-09
102	mtp_6S17_2_109l12	33162178	33164006	-1.08565	1.21E-08
103	mtp_S6C_2_591j16	31649837	31652271	1.188759	2.58E-07
104	mtp_S6A_3_28g11	30818455	30821315	0.92168	5.53E-07
105	mtp_6S17_2_707a20	32872192	32874816	-1.00553	1.51E-06
106	mtp_6S17_2_124e21	33142984	33145436	-1.10912	1.58E-06
107	mtp_S6A_2_152g09	31513524	31515946	-0.94512	1.98E-06
108	mtp_6S17_2_278p22	32751956	32754798	0.959251	3.85E-06
109	mtp_S6A_2_353i24	33348267	33350788	1.087473	4.87E-06

110	mtp_S6C_2_754f14	32557020	32559661	-1.18712	8.06E-06
111	mtp_S6C_2_291o13	32539196	32541992	-0.73957	8.35E-06
112	mtp_6S17_2_558f04	31651482	31654336	0.953425	8.97E-06
113	mtp_6S17_2_522h15	32906204	32908888	-0.71227	1.31E-05
114	mtp_S6A_3_29p07	32928521	32931366	1.116248	1.70E-05
115	mtp_S6A_2_724m04	30350008	30351777	0.52074	2.68E-05
116	mtp_S6A_2_584b12	32736096	32738289	-1.24846	4.48E-05
117	mtp_S6C_2_323p21	31544177	31546543	-1.05423	5.82E-05
118	mtp_S6C_2_309c03	32972559	32975260	0.589118	7.68E-05
119	mtp_6S17_2_537I09	33501985	33503886	0.657134	8.15E-05
120	mtp_S6C_3_114o20	31466903	31470124	-0.78067	8.48E-05
121	mtp_S6C_2_599m10	32471036	32473567	-0.76463	8.70E-05
122	mtp_S6A_2_200a10	32888310	32890611	-1.44944	9.58E-05
123	mtp_6S17_2_579I12	33025410	33027740	1.150113	0.0001153
124	mtp_6S17_2_111f06	30134479	30136131	0.758627	0.0001167
125	mtp_S6A_2_485e09	30754016	30756025	0.779481	0.000131
126	mtp_S6A_2_245f06	31562288	31564901	-0.84827	0.0001339
127	mtp_S6A_2_247f17	32609013	32611396	-0.91501	0.0001496
128	stSG1159333	32083780	32085032	-0.52852	0.0001612
129	mtp_6S17_2_355b09	32805771	32808229	0.749548	0.0002615
130	mtp_6S17_2_34d21	30687802	30690256	0.817429	0.0002806
131	mtp_S6A_2_673h09	30034394	30036661	0.606668	0.0002892
132	mtp_S6C_2_35n12	31904599	31907111	-0.62012	0.0003299
133	mtp_6S17_2_172f10	31815961	31818685	0.63943	0.0003398
134	stSG1159311	31903338	31904796	-0.77202	0.0003435
135	mtp_6S17_2_227c12	33018847	33021797	0.599893	0.0003601
136	mtp_S6C_2_176n16	33493246	33495524	0.710887	0.0004165
137	mtp_S6C_2_525h16	31410804	31413338	-0.77281	0.0004209
138	mtp_S6A_2_755o05	31487731	31490992	-1.08131	0.0004368
139	stSG1159344	32094951	32095618	0.638461	0.0004405
140	mtp_S6A_2_607b18	31892543	31894559	-0.87294	0.0004616
141	mtp_S6C_2_494h24	32566224	32568770	0.857864	0.0004902
142	mtp_S6C_2_249g19	33090674	33093215	-0.83823	0.0005037
143	mtp_S6A_2_203I11	33082017	33084690	-1.03336	0.0005155
144	mtp_6S17_2_40d18	31553280	31555425	-0.70576	0.0005245
145	mtp_6S17_2_203n20	31689689	31692751	0.723136	0.0006501
146	mtp_S6C_2_567I15	32484275	32487774	-1.01229	0.0006631
147	mtp_S6A_3_77e12	30096934	30100100	0.56266	0.0006754
148	mtp_6S17_2_118i14	33020486	33022969	0.767671	0.0006897
149	mtp_S6A_2_693p14	33144119	33146299	-1.19236	0.0007169
150	mtp_S6C_2_551e11	33286034	33288603	0.719353	0.000776
151	mtp_6S17_2_283o09	31656398	31658063	0.78074	0.0007777
152	mtp_6S17_2_163a14	33374801	33377421	-0.5063	0.0008214
153	mtp_S6A_2_365I07	30756515	30758800	0.560907	0.0008969
154	mtp_S6C_2_24m19	31030830	31033294	-0.39812	0.0009504
<b>MDA-MB-231</b>					
	<b>Clone Name</b>	<b>Start</b>	<b>End</b>	<b>M-value</b>	<b>p-value</b>
155	mtp_S6A_2_126I05	30763012	30765292	1.18811	8.13E-08
156	mtp_S6C_2_591j16	31649837	31652271	1.201073	1.10E-07

157	mtp_S6C_2_495i17	33146226	33148958	1.301633	6.97E-07
158	mtp_6S17_2_118i14	33020486	33022969	1.428598	1.30E-06
159	mtp_6S17_2_227c12	33018847	33021797	0.972723	2.94E-06
160	mtp_6S17_2_111f06	30134479	30136131	0.894931	4.03E-06
161	mtp_6S17_2_707i19	31995564	31998405	0.594004	2.85E-05
162	mtp_6S17_2_558f04	31651482	31654336	0.892191	3.20E-05
163	mtp_S6A_2_200e21	33187152	33188915	0.722338	3.66E-05
164	mtp_S6C_2_261i05	33148418	33151260	1.261192	4.43E-05
165	mtp_S6C_2_176n16	33493246	33495524	0.847578	4.59E-05
166	mtp_S6C_2_291o13	32539196	32541992	-0.55691	4.64E-05
167	mtp_6S17_2_304j21	32890054	32892994	1.032476	5.42E-05
168	mtp_S6C_2_295c12	29767842	29770217	-0.65879	5.82E-05
169	mtp_S6A_3_29p07	32928521	32931366	1.000062	5.92E-05
170	mtp_S6C_2_63h24	33292021	33293767	-1.0433	6.56E-05
171	mtp_S6A_2_19j15	32941867	32944276	0.791763	7.30E-05
172	mtp_6S17_2_337o24	30903401	30906093	0.486788	0.0001157
173	mtp_S6C_2_651k20	30152988	30155591	0.692531	0.0001259
174	mtp_S6A_2_593o01	30994321	30996758	-0.56731	0.0001529
175	mtp_S6A_2_617f24	30758534	30760818	0.991063	0.0001707
176	mtp_S6A_2_572p22	31854646	31857207	-0.76015	0.0002103
177	mtp_6S17_2_579i12	33025410	33027740	1.01135	0.00025
178	mtp_S6C_2_296n21	33152888	33155357	0.638952	0.0002898
179	mtp_S6C_2_242j03	30825368	30827875	-0.65592	0.0003419
180	mtp_S6A_3_59i07	30555778	30557696	0.513929	0.0003455
181	mtp_S6A_2_724m04	30350008	30351777	0.550353	0.0003629
182	mtp_6S17_2_747i02	31067896	31070375	-0.67933	0.0004386
183	mtp_6S17_2_283o09	31656398	31658063	0.814487	0.0004443
184	mtp_6S17_2_203n20	31689689	31692751	0.688619	0.0005062
185	mtp_S6C_2_242e07	29814777	29817114	0.555024	0.0005125
186	mtp_S6A_2_403c13	30433512	30435982	0.927802	0.0005354
187	mtp_6S17_2_355b09	32805771	32808229	0.550376	0.0006068
188	stSG1159306	29823382	29824715	-0.45434	0.0006593
189	mtp_S6A_2_203i11	33082017	33084690	-0.52996	0.0006766
190	mtp_S6A_2_99j22	33015774	33018132	0.837434	0.0008397
191	mtp_6S17_2_749c22	30583516	30586461	0.49832	0.0008852
192	mtp_S6A_2_268j06	31095892	31098083	-0.53211	0.0008925
193	mtp_S6A_2_71a13	29929108	29931705	0.466542	0.0009068
194	mtp_S6C_2_437h19	31431405	31434315	0.66889	0.0009391
195	mtp_S6C_2_119a05	30345571	30347925	0.594424	0.000967
<b>MDA-MB-361</b>					
	<b>Clone Name</b>	<b>Start</b>	<b>End</b>	<b>M-value</b>	<b>p-value</b>
196	mtp_6S17_2_118i14	33020486	33022969	1.524417	1.48E-08
197	mtp_S6A_2_617f24	30758534	30760818	1.589697	2.06E-08
198	stSG1159381	32628159	32629647	1.212893	8.84E-08
199	mtp_S6A_2_126i05	30763012	30765292	1.344771	1.55E-07
200	mtp_S6C_2_176n16	33493246	33495524	1.228532	9.08E-07
201	mtp_S6C_2_591j16	31649837	31652271	1.203571	3.06E-06
202	mtp_6S17_2_227c12	33018847	33021797	0.758475	9.18E-06
203	mtp_S6C_2_495i17	33146226	33148958	1.334531	1.23E-05



204	mtp_S6A_2_718o07	32605193	32606885	1.18814	1.63E-05
205	mtp_S6A_3_29p07	32928521	32931366	1.14799	2.03E-05
206	mtp_S6A_2_742g13	32710133	32712269	1.050884	2.07E-05
207	mtp_S6A_2_99j22	33015774	33018132	1.184914	2.07E-05
208	mtp_S6C_2_126m01	32689045	32691474	0.956218	2.43E-05
209	mtp_S6A_2_353i24	33348267	33350788	0.677166	5.92E-05
210	mtp_6S17_2_163a14	33374801	33377421	-0.62735	6.28E-05
211	mtp_S6A_2_607b18	31892543	31894559	-1.08672	8.39E-05
212	mtp_S6C_2_252b19	30081271	30083717	0.674057	9.14E-05
213	mtp_6S17_2_304j21	32890054	32892994	1.00715	0.0001135
214	mtp_S6C_2_261i05	33148418	33151260	1.34449	0.000131
215	mtp_S6A_3_10p04	31387943	31390679	1.371339	0.0001676
216	mtp_S6A_2_393k13	31392265	31394713	0.975536	0.0001773
217	mtp_S6A_2_152g09	31513524	31515946	-0.51419	0.0002072
218	mtp_S6C_2_437h19	31431405	31434315	0.806833	0.0002355
219	mtp_S6C_2_672h21	30822901	30825493	-0.62056	0.0002374
220	mtp_S6A_2_593o01	30994321	30996758	-0.72539	0.0002463
221	mtp_6S17_2_558f04	31651482	31654336	1.084652	0.000283
222	mtp_S6A_2_485e09	30754016	30756025	0.690791	0.0002857
223	mtp_6S17_2_75k18	30283371	30285180	-0.66476	0.0003405
224	mtp_6S17_2_283o09	31656398	31658063	0.909426	0.0003737
225	mtp_S6A_2_263p12	33288292	33290935	0.759434	0.000422
226	mtp_6S17_2_244b17	30041663	30044107	-0.48621	0.0005006
227	stSG1159344	32094951	32095618	0.76621	0.0005217
228	stSG1159309	30370522	30371723	0.746106	0.0006274
229	mtp_6S17_2_707l19	31995564	31998405	0.500099	0.0006637
230	mtp_S6A_2_649c07	31546522	31549182	-0.58717	0.0006647
231	mtp_S6C_2_269h18	30404296	30406670	-0.52764	0.0008381
232	mtp_S6A_2_19j15	32941867	32944276	0.760213	0.0009152
233	mtp_S6A_2_200e21	33187152	33188915	0.730549	0.0009207
234	mtp_S6A_2_42g10	32222119	32224613	0.481033	0.0009589
<b>MCF7</b>					
	<b>Clone Name</b>	<b>Start</b>	<b>End</b>	<b>M-value</b>	<b>p-value</b>
235	mtp_S6A_2_617f24	30758534	30760818	1.722349	9.90E-11
236	mtp_S6C_2_495l17	33146226	33148958	1.638079	5.62E-10
237	mtp_S6C_2_542d02	32552075	32554386	-1.26969	1.25E-09
238	mtp_S6A_2_126l05	30763012	30765292	1.060891	1.40E-09
239	mtp_S6C_2_446o03	30129527	30132152	-0.95654	6.32E-09
240	stSG1159389	33161371	33162818	-1.06777	1.52E-08
241	mtp_S6C_2_173b09	32063457	32066073	-1.25293	2.54E-08
242	mtp_S6A_2_593o01	30994321	30996758	-0.79813	2.75E-08
243	mtp_S6C_2_591j16	31649837	31652271	0.886516	8.53E-08
244	mtp_6S17_2_118i14	33020486	33022969	1.093815	1.02E-07
245	mtp_S6C_2_417b10	30023644	30025314	1.418453	1.11E-07
246	mtp_S6C_2_35n12	31904599	31907111	-1.44894	1.13E-07
247	stSG1159377	32124830	32125663	-0.98314	1.25E-07
248	mtp_S6A_2_673h09	30034394	30036661	-1.03355	1.40E-07
249	mtp_S6A_2_149a10	29861411	29863644	-0.7115	1.47E-07
250	mtp_6S17_2_560n07	31383618	31385658	0.75882	1.56E-07

251	mtp_6S17_2_558f04	31651482	31654336	0.989128	1.82E-07
252	mtp_S6C_2_256g20	29960874	29962955	0.848121	2.20E-07
253	mtp_S6C_2_126m01	32689045	32691474	0.958427	2.84E-07
254	mtp_6S17_2_227c12	33018847	33021797	0.767396	3.32E-07
255	mtp_S6C_2_247i11	32720216	32722920	-0.82355	4.08E-07
256	mtp_S6C_2_494b13	32680961	32683760	0.729892	4.18E-07
257	mtp_S6A_2_577p21	30363052	30365623	0.717306	4.58E-07
258	mtp_6S17_2_583k01	30231506	30234359	1.309995	4.97E-07
259	mtp_S6C_2_261i05	33148418	33151260	1.449423	6.46E-07
260	mtp_6S17_2_704e03	31541574	31544203	-0.70854	6.96E-07
261	mtp_S6A_3_29p07	32928521	32931366	1.109096	7.91E-07
262	mtp_6S17_2_537l09	33501985	33503886	0.645086	8.24E-07
263	mtp_6S17_2_40d18	31553280	31555425	-0.87511	8.64E-07
264	mtp_S6C_2_252b19	30081271	30083717	0.741594	1.05E-06
265	mtp_6S17_2_143c10	33179389	33182056	-0.67008	1.66E-06
266	mtp_S6A_2_607b18	31892543	31894559	-1.62095	2.02E-06
267	mtp_6S17_2_646n05	31352523	31355086	-0.88519	2.10E-06
268	mtp_S6A_2_571b17	32918067	32920344	1.540323	2.34E-06
269	mtp_S6C_2_328g03	31369850	31372247	1.305149	2.61E-06
270	mtp_S6C_2_242j03	30825368	30827875	-0.86811	4.03E-06
271	mtp_S6A_3_76a07	31376096	31377899	0.622509	5.02E-06
272	mtp_S6A_2_29i03	33130078	33132394	-0.95538	8.98E-06
273	mtp_6S17_2_163a14	33374801	33377421	-0.63635	1.19E-05
274	mtp_S6C_2_291o13	32539196	32541992	-0.51466	1.34E-05
275	mtp_6S17_2_278p22	32751956	32754798	0.627347	1.43E-05
276	mtp_6S17_2_536j18	32505710	32507577	0.478069	1.72E-05
277	mtp_S6C_2_47o13	30341155	30343559	-0.57607	1.93E-05
278	mtp_S6A_2_319p03	32786130	32788393	0.62126	1.95E-05
279	mtp_6S17_2_150b10	31962270	31964146	-0.54188	2.27E-05
280	mtp_S6C_2_323p21	31544177	31546543	-0.69278	2.41E-05
281	mtp_S6A_2_435c02	29997684	29999912	-0.76466	2.44E-05
282	mtp_6S17_2_691p19	32333324	32335035	-0.58101	2.55E-05
283	mtp_S6A_2_495p21	33246190	33248772	0.557239	2.70E-05
284	mtp_6S17_2_283o09	31656398	31658063	0.753481	2.72E-05
285	mtp_6S17_2_339j05	32987255	32990019	-1.00603	3.06E-05
286	mtp_S6A_2_427m23	29921905	29924681	-0.61879	3.08E-05
287	mtp_S6C_2_169c05	31112554	31114212	0.520293	3.36E-05
288	mtp_S6C_2_725k15	30351301	30353113	1.225248	3.44E-05
289	mtp_6S17_2_523e17	29899083	29901168	-0.76674	3.50E-05
290	mtp_6S17_2_130a06	30958243	30959538	-0.65883	3.66E-05
291	mtp_S6A_2_485e09	30754016	30756025	0.614172	3.87E-05
292	mtp_6S17_2_788a04	30087895	30090090	-0.79337	3.98E-05
293	mtp_S6A_2_550c18	31647311	31649827	0.9494	4.15E-05
294	mtp_S6A_2_66m22	29947487	29949977	-0.6585	4.19E-05
295	mtp_6S17_2_214d05	30146157	30148833	0.428611	4.22E-05
296	mtp_S6A_2_353i24	33348267	33350788	-0.64813	4.24E-05
297	stSG1159311	31903338	31904796	-0.95195	4.28E-05
298	mtp_S6C_2_479j24	32496153	32498835	-0.69457	4.35E-05
299	mtp_S6A_2_209i18	31507238	31509555	-0.98144	4.47E-05

300	mtp_6S17_2_705p22	33513248	33516058	-0.57214	4.50E-05
301	mtp_S6A_2_151a18	31367358	31369739	0.690009	5.05E-05
302	mtp_S6A_2_99j22	33015774	33018132	0.992915	5.91E-05
303	mtp_S6C_2_442e02	32642241	32644714	-0.89555	7.32E-05
304	mtp_6S17_2_408b06	33047336	33050005	-0.71171	7.41E-05
305	mtp_S6A_2_349p03	29852518	29854940	-0.67915	7.77E-05
306	mtp_S6A_2_579i17	31365145	31367681	-0.48871	8.34E-05
307	mtp_S6C_2_451a13	32641050	32643561	-0.94326	8.58E-05
308	mtp_S6C_2_581h23	30496479	30499147	0.506153	8.83E-05
309	mtp_S6C_2_420g20	33462560	33465285	0.512422	9.09E-05
310	mtp_S6A_2_195b05	31522428	31524251	0.442649	9.84E-05
311	mtp_6S17_2_550d16	30178743	30181378	0.635713	0.0001068
312	mtp_S6C_2_296i15	29805657	29808379	-0.62679	0.0001087
313	mtp_S6C_2_560j06	31822009	31824451	-0.52368	0.0001099
314	mtp_S6A_2_365i07	30756515	30758800	0.590558	0.0001146
315	mtp_S6C_2_602b15	30521587	30523578	0.718527	0.0001247
316	mtp_S6A_2_180o24	31441096	31443372	-0.78154	0.0001341
317	mtp_S6C_2_266a20	32588572	32590988	-0.47288	0.0001537
318	mtp_6S17_2_431p03	31485229	31487901	-0.54793	0.0001632
319	mtp_S6A_2_174i24	30173168	30175684	0.380024	0.000166
320	mtp_S6C_2_674e02	33084323	33086976	0.637764	0.0001664
321	mtp_S6A_2_415h04	31604437	31607304	-0.463	0.0001747
322	mtp_S6C_2_84b09	31306864	31309399	-0.66905	0.0001842
323	mtp_6S17_2_368a11	31700030	31702827	-0.52412	0.000188
324	mtp_S6A_3_70g05	30523998	30526686	0.844319	0.0002068
325	stSG1159381	32628159	32629647	-0.51668	0.0002098
326	mtp_6S17_2_477f16	30509530	30512280	0.6886	0.000222
327	mtp_S6A_2_84i07	29788550	29790980	-0.91074	0.0002331
328	mtp_S6C_2_450i05	33355252	33357951	-0.60344	0.0002342
329	mtp_S6A_2_400k18	31791865	31794379	-0.58838	0.0002603
330	mtp_S6A_2_223f06	31902447	31904569	-0.76213	0.0002793
331	mtp_S6A_2_507a06	30498694	30501279	0.43934	0.0002968
332	mtp_6S17_2_203n20	31689689	31692751	0.645595	0.0003015
333	mtp_6S17_2_9m02	29975451	29978299	-0.61241	0.0003346
334	mtp_S6A_2_71k05	32868718	32871367	-0.83589	0.0003368
335	mtp_S6C_3_147i15	31933254	31936222	-0.40006	0.0003516
336	mtp_S6A_2_446h15	30424262	30426665	0.908199	0.0004169
337	mtp_S6C_2_311i13	31470091	31472561	-0.82808	0.0004354
338	mtp_6S17_2_685i13	33365027	33366857	-0.94413	0.0004496
339	mtp_S6C_2_158k03	32666007	32668413	-0.53493	0.0004514
340	stSG1159309	30370522	30371723	0.562395	0.0004606
341	mtp_S6C_2_169h15	32894483	32897025	-0.40184	0.0004631
342	mtp_S6A_2_211a07	29884167	29886552	0.509612	0.0004699
343	mtp_S6A_2_238i14	30233200	30235491	-0.62232	0.0004742
344	mtp_S6A_2_534n13	33128270	33130623	-0.61796	0.0004872
345	mtp_S6C_2_672h21	30822901	30825493	-0.75586	0.0004888
346	mtp_6S17_2_749c13	30754744	30757288	0.649079	0.0004914
347	mtp_S6A_2_377g19	30078444	30080712	-1.11138	0.0004997
348	mtp_6S17_2_556c06	31407745	31410625	0.68503	0.0005032

349	mtp_S6A_2_596o19	31442467	31444925	-0.88855	0.0005103
350	mtp_S6A_2_724m04	30350008	30351777	0.497283	0.0005295
351	mtp_6S17_2_30e24	31451728	31454419	0.876509	0.0005372
352	mtp_6S17_2_617i02	30238940	30240972	0.803218	0.0005497
353	mtp_S6C_2_728o04	31784795	31786680	0.586009	0.000567
354	mtp_S6A_2_165i18	30960918	30963025	-1.63084	0.0005768
355	mtp_S6A_2_131p01	32261170	32263480	-0.42238	0.0006133
356	mtp_S6C_2_233b21	29952327	29954750	-0.72725	0.0006166
357	mtp_S6C_2_405j01	30476804	30479649	1.423038	0.0006381
358	mtp_6S17_2_624p03	30428243	30430343	0.467783	0.0006676
359	mtp_6S17_2_435e01	30020915	30023760	-0.73822	0.0006679
360	mtp_6S17_2_577d11	30991536	30994461	0.529195	0.0006714
361	mtp_6S17_2_494h12	30767990	30770760	0.564341	0.0006943
362	mtp_S6A_2_403c13	30433512	30435982	0.821549	0.0007068
363	mtp_S6A_2_649c07	31546522	31549182	-0.55807	0.0007201
364	mtp_S6C_2_529n06	30131866	30134499	-0.5302	0.0007319
365	mtp_S6A_2_594m04	33159764	33161477	-0.75746	0.0007896
366	mtp_6S17_2_608m07	32455394	32458106	0.466302	0.000814
367	mtp_S6C_2_630p01	31849432	31852366	-0.69456	0.0008157
368	mtp_S6A_2_701o19	31214656	31216338	0.370916	0.0008342
369	mtp_S6C_2_573h06	32904298	32906120	1.107249	0.00089
370	mtp_6S17_2_244b17	30041663	30044107	-0.38159	0.0008919
371	mtp_S6C_2_269h18	30404296	30406670	-0.39783	0.0009188
372	mtp_S6A_3_6j09	31717156	31720176	-0.39535	0.0009473
373	mtp_S6C_2_628n07	31702678	31705254	-0.51633	0.0009511
374	mtp_S6C_2_242e22	31349918	31352712	-0.91514	0.0009541
375	mtp_6S17_2_205b08	33387409	33389702	-0.59709	0.0009612
<b>T47D</b>					
	<b>Clone Name</b>	<b>Start</b>	<b>End</b>	<b>M-value</b>	<b>p-value</b>
376	mtp_S6C_2_291o13	32539196	32541992	-1.29528	3.97E-09
377	mtp_S6A_2_617f24	30758534	30760818	1.782922	1.07E-08
378	mtp_S6A_2_126i05	30763012	30765292	1.699656	5.72E-08
379	mtp_6S17_2_118i14	33020486	33022969	1.401021	1.39E-06
380	mtp_S6A_2_422n17	32430334	32433086	-1.08039	1.77E-06
381	mtp_S6C_2_285g11	30519080	30521624	-0.86139	1.92E-06
382	mtp_6S17_2_558f04	31651482	31654336	1.041974	5.91E-06
383	mtp_S6C_2_323p21	31544177	31546543	-0.92859	1.27E-05
384	mtp_6S17_2_111f06	30134479	30136131	1.286751	1.52E-05
385	mtp_S6C_2_189h20	29942189	29945148	-0.80317	3.10E-05
386	mtp_6S17_2_227c12	33018847	33021797	0.962292	3.33E-05
387	mtp_S6A_3_29p07	32928521	32931366	1.232809	3.85E-05
388	mtp_6S17_2_124e21	33142984	33145436	-1.00387	4.19E-05
389	mtp_S6A_2_607b18	31892543	31894559	-1.20159	4.69E-05
390	stSG1159382	32631240	32632113	1.010522	5.99E-05
391	mtp_S6C_2_420g20	33462560	33465285	0.922306	6.29E-05
392	mtp_S6C_2_591j16	31649837	31652271	1.118047	9.12E-05
393	mtp_S6C_2_494h24	32566224	32568770	1.177862	9.49E-05
394	mtp_S6C_2_567i15	32484275	32487774	-0.90546	0.0001398
395	mtp_S6C_2_235c10	30094409	30096974	0.799617	0.0001422

396	mtp_S6A_2_137k10	29983949	29986575	-0.79445	0.0001804
397	mtp_6S17_2_707a20	32872192	32874816	-0.69772	0.0001899
398	mtp_6S17_2_34c02	29939562	29942347	-0.94461	0.0001906
399	mtp_S6A_2_550c18	31647311	31649827	1.003426	0.0001997
400	mtp_S6C_2_392f07	32783173	32786086	-0.6499	0.0002078
401	mtp_S6C_2_29d18	32870242	32872810	-0.72618	0.0002366
402	mtp_S6C_2_169c05	31112554	31114212	0.537283	0.00026
403	mtp_S6A_2_374i19	32678591	32681243	1.270246	0.0003693
404	mtp_6S17_2_414a03	31637916	31640706	0.531428	0.0003995
405	mtp_S6C_2_461d02	31014145	31016926	0.635657	0.0004075
406	mtp_S6C_2_672h21	30822901	30825493	-0.68673	0.0004805
407	mtp_S6C_2_495i17	33146226	33148958	1.027689	0.0005442
408	mtp_S6C_2_351b16	32644074	32646662	-0.79282	0.0005524
409	mtp_S6A_2_485e09	30754016	30756025	1.032661	0.0005525
410	mtp_S6C_2_417b10	30023644	30025314	1.463841	0.0007582
411	mtp_6S17_2_583k01	30231506	30234359	1.10007	0.0007721
412	mtp_S6A_3_30g20	32533849	32536651	-0.70346	0.0008137
413	mtp_S6A_2_693p14	33144119	33146299	-1.03754	0.0008252
414	mtp_6S17_2_403h19	29945051	29947511	-0.58579	0.0008952
415	mtp_S6C_2_754f14	32557020	32559661	-0.74717	0.00096
416	mtp_S6A_2_99j22	33015774	33018132	1.27525	0.0009647
417	mtp_S6C_2_63h24	33292021	33293767	-0.67812	0.0009838
418	mtp_S6C_2_482e09	29967686	29969637	-0.69363	0.0009839
<b>K562</b>					
	<b>Clone Name</b>	<b>Start</b>	<b>End</b>	<b>M-value</b>	<b>p-value</b>
419	mtp_6S17_2_550d16	30178743	30181378	1.813617	3.27E-09
420	mtp_S6A_2_203l11	33082017	33084690	-1.57977	1.59E-08
421	mtp_S6A_2_63e09	30288220	30290560	1.814325	6.36E-08
422	mtp_S6A_3_29p07	32928521	32931366	2.342967	1.24E-07
423	stSG1159377	32124830	32125663	-1.42949	3.88E-07
424	mtp_S6A_2_215a19	33169768	33172038	-0.86194	4.87E-07
425	mtp_6S17_2_111f06	30134479	30136131	1.302455	5.14E-07
426	mtp_S6C_2_249g19	33090674	33093215	-1.25453	2.13E-06
427	mtp_6S17_2_134i19	31024896	31027536	-0.93995	2.71E-06
428	mtp_S6C_2_252b19	30081271	30083717	0.996822	3.04E-06
429	mtp_6S17_2_130a06	30958243	30959538	1.1478	3.17E-06
430	mtp_6S17_2_40d18	31553280	31555425	-1.13414	3.90E-06
431	mtp_S6C_2_35n12	31904599	31907111	-1.24066	7.09E-06
432	mtp_S6A_2_126i05	30763012	30765292	1.238969	7.19E-06
433	stSG1159311	31903338	31904796	-1.26344	9.72E-06
434	mtp_S6A_2_577p21	30363052	30365623	0.874226	1.27E-05
435	mtp_6S17_2_337o24	30903401	30906093	0.995116	1.69E-05
436	mtp_S6A_2_152g09	31513524	31515946	-0.79528	1.81E-05
437	mtp_S6A_2_607b18	31892543	31894559	-1.2635	2.33E-05
438	mtp_S6A_2_571b17	32918067	32920344	1.734007	3.04E-05
439	mtp_S6C_2_417b10	30023644	30025314	1.208653	4.14E-05
440	mtp_6S17_2_283o09	31656398	31658063	1.033447	4.32E-05
441	mtp_S6C_2_495i17	33146226	33148958	1.321642	6.85E-05
442	mtp_6S17_2_558f04	31651482	31654336	1.040009	7.24E-05

443	mtp_6S17_2_124e21	33142984	33145436	-1.24287	8.26E-05
444	mtp_S6A_2_352g13	32278686	32281326	-0.72338	9.16E-05
445	mtp_6S17_2_206g17	30264102	30266980	-0.94293	9.17E-05
446	mtp_6S17_2_583k01	30231506	30234359	1.260341	0.0001286
447	mtp_S6A_2_422n17	32430334	32433086	-0.89926	0.0001517
448	mtp_S6C_2_512f05	33077075	33079961	-0.83076	0.0001791
449	mtp_S6A_2_693p14	33144119	33146299	-1.55943	0.0001888
450	mtp_S6C_2_323p21	31544177	31546543	-0.89927	0.0002395
451	mtp_6S17_2_47d01	31192661	31195203	-0.84057	0.0002441
452	mtp_S6C_2_446o03	30129527	30132152	1.038804	0.000261
453	mtp_6S17_2_154o06	31185615	31188154	-1.0366	0.0002681
454	mtp_S6A_2_99j22	33015774	33018132	0.929407	0.0002871
455	mtp_S6A_2_180o24	31441096	31443372	-0.87963	0.0003012
456	stSG1159329	32080229	32081243	0.844391	0.0003174
457	mtp_6S17_2_283h21	31023710	31026101	-1.19789	0.0003211
458	mtp_S6C_2_291o13	32539196	32541992	-0.65126	0.0003295
459	mtp_S6A_2_540a21	31087638	31089814	-0.66246	0.0003502
460	mtp_S6C_3_128c17	33281188	33283958	0.705128	0.0003914
461	mtp_S6C_2_328g03	31369850	31372247	1.144393	0.0004181
462	mtp_6S17_2_676f20	31118993	31121827	-0.76444	0.0004221
463	mtp_S6A_2_594m04	33159764	33161477	-1.61745	0.0004365
464	mtp_S6A_2_29i03	33130078	33132394	-1.13731	0.0004972
465	stSG1159389	33161371	33162818	-1.63193	0.0005346
466	mtp_S6A_2_434k14	29965444	29967775	-0.98072	0.0005607
467	mtp_S6C_2_261i05	33148418	33151260	1.101245	0.0005824
468	mtp_6S17_2_403h19	29945051	29947511	-0.80451	0.0006158
469	stSG1159367	32111840	32112986	0.721595	0.0006469
470	mtp_6S17_2_106c06	33010869	33013520	-0.76766	0.000657
471	mtp_S6A_2_223f06	31902447	31904569	-0.93172	0.0007029
472	mtp_6S17_2_704e03	31541574	31544203	-1.03204	0.0007468
473	mtp_S6C_2_109m03	33079784	33082134	-0.87375	0.0008087
474	mtp_S6A_2_724m04	30350008	30351777	0.580665	0.0008155
475	mtp_S6C_2_437h19	31431405	31434315	0.79726	0.0008557
476	mtp_6S17_2_806h02	33194560	33196721	0.503952	0.0008652
477	mtp_S6C_2_63h24	33292021	33293767	-0.81228	0.0008962
478	mtp_6S17_2_707a20	32872192	32874816	-0.62536	0.0009228
<b>578T</b>					
	<b>Clone Name</b>	<b>Start</b>	<b>End</b>	<b>M-value</b>	<b>p-value</b>
479	mtp_S6A_2_77114	29741918	29744577	0.763344	0.0004559
480	mtp_S6C_2_33f20	29784008	29786547	-0.96811	0.0007055
481	mtp_S6C_2_296i15	29805657	29808379	-0.91	5.92E-05
482	mtp_S6C_2_256g20	29960874	29962955	0.87112	0.0001627
483	mtp_S6C_2_417b10	30023644	30025314	1.209422	7.52E-05
484	mtp_S6C_2_252b19	30081271	30083717	0.942966	0.0001421
485	mtp_6S17_2_111f06	30134479	30136131	0.871317	2.89E-05
486	mtp_6S17_2_214d05	30146157	30148833	1.046351	8.81E-08
487	mtp_6S17_2_550d16	30178743	30181378	1.450958	4.60E-08
488	mtp_6S17_2_624p03	30428243	30430343	0.625393	0.0007955
489	mtp_S6A_2_485e09	30754016	30756025	1.364416	2.16E-05

490	mtp_S6A_2_126l05	30763012	30765292	1.140752	2.78E-06
491	mtp_6S17_2_494h12	30767990	30770760	0.711924	0.0001308
492	mtp_6S17_2_337o24	30903401	30906093	0.724276	8.92E-06
493	mtp_6S17_2_130a06	30958243	30959538	1.052614	6.86E-08
494	mtp_6S17_2_575h02	31100296	31102131	0.763887	0.0005684
495	mtp_S6A_3_76a07	31376096	31377899	-0.68428	0.0006986
496	mtp_S6A_2_205l16	31410312	31412594	-0.74116	0.0008045
497	mtp_S6C_2_525h16	31410804	31413338	-0.89887	9.83E-05
498	mtp_S6C_2_315o12	31419326	31421777	-0.94361	0.0007341
499	mtp_S6C_2_437h19	31431405	31434315	0.930959	0.0007604
500	mtp_S6A_2_596o19	31442467	31444925	-0.83344	0.0006928
501	mtp_S6A_2_152g09	31513524	31515946	-1.03619	4.78E-06
502	mtp_S6C_2_591j16	31649837	31652271	0.900304	3.18E-05
503	mtp_6S17_2_558f04	31651482	31654336	1.128676	1.35E-05
504	mtp_6S17_2_283o09	31656398	31658063	0.848681	0.0005942
505	mtp_S6A_2_607b18	31892543	31894559	-1.30215	2.30E-05
506	mtp_S6C_2_35n12	31904599	31907111	-0.94557	0.0004561
507	mtp_S6C_2_173b09	32063457	32066073	-0.9907	8.76E-05
508	stSG1159344	32094951	32095618	-0.54195	0.0006025
509	stSG1159377	32124830	32125663	-1.03526	3.58E-05
510	mtp_S6A_2_528m17	32288063	32290295	-0.77037	0.0001326
511	mtp_6S17_2_700n22	32293344	32295765	-0.88109	5.29E-05
512	mtp_6S17_2_601o04	32298082	32300874	-0.86989	0.0009984
513	mtp_S6A_2_422n17	32430334	32433086	-1.06942	2.06E-06
514	mtp_S6C_2_599m10	32471036	32473567	-0.8953	0.0002523
515	mtp_S6C_2_567l15	32484275	32487774	-1.15683	0.0004177
516	mtp_S6A_2_69d24	32487094	32489228	-1.00168	0.0005821
517	mtp_6S17_2_536j18	32505710	32507577	0.681998	0.0001884
518	mtp_S6C_2_291o13	32539196	32541992	-0.89436	0.0002175
519	mtp_S6C_2_542d02	32552075	32554386	-0.89816	0.0006355
520	mtp_S6C_3_125f11	32592713	32595798	-1.18136	0.0001557
521	stSG1159380	32601273	32601860	-1.26308	0.0005372
522	mtp_S6A_2_247f17	32609013	32611396	-0.80472	0.0001054
523	stSG1159384	32633359	32634474	-0.71199	0.0005897
524	mtp_S6C_3_129n21	32637066	32640334	-0.87328	7.72E-05
525	mtp_S6C_2_442e02	32642241	32644714	-0.79022	0.0009418
526	mtp_S6C_2_351b16	32644074	32646662	-1.01415	0.0001885
527	mtp_S6C_2_158k03	32666007	32668413	-0.88331	0.0004025
528	mtp_6S17_2_540i21	32716744	32719125	-1.03478	9.01E-05
529	mtp_S6C_2_247i11	32720216	32722920	-0.99852	0.0001093
530	mtp_S6C_2_766n01	32733611	32736437	-0.87053	0.0001096
531	mtp_S6C_2_29d18	32870242	32872810	-0.66463	0.0003428
532	mtp_S6A_2_200a10	32888310	32890611	-1.42085	0.0005849
533	mtp_S6A_2_571b17	32918067	32920344	1.532234	0.0001507
534	mtp_S6A_3_29p07	32928521	32931366	1.122592	2.15E-05
535	mtp_S6A_2_203l11	33082017	33084690	-1.16469	0.0001271
536	mtp_S6C_2_249g19	33090674	33093215	-1.53323	0.0001774
537	mtp_S6A_2_113b04	33097613	33099941	-1.17848	3.34E-05
538	mtp_S6A_2_29i03	33130078	33132394	-0.90704	0.0001379

<b>539</b>	mtp_6S17_2_124e21	33142984	33145436	-1.5521	5.18E-06
<b>540</b>	mtp_S6A_2_693p14	33144119	33146299	-1.56936	0.0001033
<b>541</b>	mtp_S6A_2_594m04	33159764	33161477	-1.32693	3.88E-05
<b>542</b>	stSG1159389	33161371	33162818	-1.40478	3.20E-07
<b>543</b>	mtp_6S17_2_109l12	33162178	33164006	-1.45179	1.06E-06
<b>544</b>	mtp_S6A_2_215a19	33169768	33172038	-0.86117	4.32E-06
<b>545</b>	mtp_S6A_2_33i07	33260428	33262435	-0.82609	0.0005795
<b>546</b>	mtp_S6C_2_141a12	33279164	33281784	1.292865	9.87E-05
<b>547</b>	mtp_S6C_3_128c17	33281188	33283958	0.861494	1.32E-05
<b>548</b>	mtp_S6C_2_551e11	33286034	33288603	0.83157	0.0002175
<b>549</b>	mtp_S6C_2_63h24	33292021	33293767	-0.98491	0.0004232
<b>550</b>	mtp_6S17_2_205b08	33387409	33389702	1.150282	3.40E-05
<b>551</b>	mtp_S6C_2_420g20	33462560	33465285	0.840402	6.72E-05
<b>552</b>	mtp_S6C_2_176n16	33493246	33495524	0.790378	9.14E-06

Table 5.2 **DMRs between each of the cancer cell lines and the shared controls.** Chromosome 6 coordinates (NCBI\_35), M- and p-values are given.