

# Integrating Host Genomics with Surveillance for Invasive Bacterial Diseases

## Technical Appendix

Table 1. Coriell cell repository DNA samples resequenced for single nucleotide polymorphisms in CD46

European-Americans (n = 23)	Yorubans (n = 24)	Asians (n = 24)	Hispanics (n = 6)
NA11995	NA18502	NA18526	NA17438
NA12892	NA19153	NA18562	NA17439
NA11882	NA19223	NA18545	NA17440
NA11994	NA19201	NA18609	NA17441
NA12815	NA18504	NA18566	NA17442
NA12891	NA18870	NA18621	NA17443
NA06985	NA19137	NA 18577	–
NA11840	NA19238	NA18635	–
NA11881	NA19144	NA18524	–
NA11993	NA19203	NA18537	–
NA12751	NA19200	NA18572	–
NA12814	NA18855	NA18552	–
NA06993	NA18505	NA18942	–
NA07056	NA18501	NA18945	–
NA11832	NA18861	NA18964	–
NA11839	NA19193	NA18961	–
NA11992	NA19143	NA18967	–
NA12057	NA18517	NA18981	–
NA12156	NA18856	NA18994	–
NA12239	NA19239	NA18998	–
NA12750	NA18871	NA18940	–
NA12813	NA19209	NA18949	–
NA07055	NA19152	NA18953	–
–	NA19210	NA18972	–

Table 2. Location, rs number, and sequence context of SNPs in CD46\*

SNP (alleles)	Location within gene	rs no.	50 bases 5' flanking the SNP	50 bases 3' flanking the SNP
372 (A/T)	5' flanking	rs41266389	GAAAACTGAAAAGCATAAGGAAAAGTGAATATCTGTAATCTT ATCAACCA	TGTTAATTTTGTCTGTATTCTTAGTTTCTTTTTTATACATATCAA TATGGTA
463 (G/A)	5' flanking	rs1970530	CAATATGGTACTTTTTGTTTTAATAAAAGGACTGCCAAAAGGC ACATGCCA	TTTGGACTCTGCTTTTTCCACTTACAATGATATCATAGTTTCT CATATTT
544 (C/A)	5' flanking	rs41266391	TATCATAGTTTCTCATATTTGGTATTCTTTTGAATATTTGCT GCATAGA	TTCCATCACACAAAGGTAAGTCCAGAAATTCTTTATTACTT TTGCTAGA
668 (G/C)	5' flanking	rs11118514	AAAATTAATCACATCAGAGTTTTGATCACATCAGAGCTTTGA TCACAGCT	TGATGATTTTCTCTGGAACTGAGAGCCTAACACAAGTCATG TCCACTTTA
1303 (G/A)	5' flanking	rs2796267	aaccttgagattgtgaaaaaagacggccccgagacgatccagtagcag	cattcaagcaagaaaaactcaaatattgttcccaataatgcctgactaat
1362 (G/C)	5' flanking	rs41266393	caagaaaaactcaaatattgttcccaataatgcctgactaatgccaata	caagtaagggcccaggcagctctgacagcctgagctgccccaggataaaa
1589 (G/A)	5' flanking	rs2796268	ctccaccctgcctgggtcacaatatgacggcgagccagctcttccc	caggacgctcaggctccgggatggtaggccaaggcttagcaagaaaa
1685 (T/C)	5' flanking	rs41266395	gaaaaaagggcggcctcggggaacctgttctgttaggtccgcccaggcct	cccctgacctctgaaggccaaggctgcccgaacgcccaggctccgc
1758 (G/C)	5' flanking	rs41266397	gggctgccatgaacgcccaggctccgccccgcccggccgattggccc	agccgcccctggtgactgcagcactccgccccggcgccgctcgggcca
2637 (G/A)	Intron	rs41266399	CTGTGCGTAAGTGGCCTGTGTGCAGAGTTCCTGTGGGCA AGACAGCTCA	CTGTTTGTCTTGAATGGAGTGAGCGCGGACTCTGGGGCTA GGGAGGGCAT
2672 (C/G)	Intron	rs41268335	GGGCAAGACAGCTCAACTGTTTGTCTTGAATGGAGTGAGCG CGGACTCTG	GGCTAGGGAGGGCATGTTGAGTGAGAGCAGGCTCTCGGTG CCTGGGGTTA
2959 (G/A)	Intron	rs17048430	TTCCTTCTTTTACTACTTTGAGTCATATTTGAGAGATGTGAA ACAACCT	AAAAACAATGGTAGCCAAACCTAGTGAGAAATTAGTATCCTA ACAAAGGA
3014 (G/A)	Intron	rs41316813	ACAATGGTAGCCAAACCTAGTGAGAAATTAGTATCCTAACAA AGGAAGGC	gataatgtaactctgtttccctcagctcaTaaagtaagcttaagg
3048 (C/T)	Intron	rs41316815	CCTAACAAAGGAAGGCagataatgtaactctgtttccctcagctca	aagctaagcttaaggcctatcccactaaatattttgatttcattga
3550 (C/T)	Intron	rs35029161	atatttggcatattgttctgcctcatgtgcccgcctgctgtatcta	gtccaaattatatttaggatacaataacatgatatttctacgttgc
3628(C/G)	Intron	rs41316817	catgtatagttctacgttgcatttttcttaggagcattcattcaac	aatatgggtctgtatgctgggtctattacactggttaggcaatacaaa
3687 (G/A)	Intron	rs41316819	tctgtatgtctggtctattacactggtaggcaatacaaacaccattct	ttttctgatccttttctactattgtttacacacacattcatgcagga
3779 (C/G)	Intron	rs41316821	catgcaggaagataagcaggacttgtttgtcctaatgataagtgtca	tgccgggaacacagtagataaccaataaattattgtctaaatgtattgg
3905 (A/G)	Intron	rs41316823	cataatagtgacaaataaattatgaaccaagggagtgctctggaggcaa	cagtataatttcagatataaattctgacagcatttaacaaatgattggag
3996 (G/A)	Intron	rs41316825	atgattggagagagggaggctctctgctcatcaaacagactttggggc	tctgtgctgtgttccctcagccCaggaaacttctcctgacctgct
4021 (A/C)	Intron	rs41316827	ctgctcatcaaacagactttggggcAtctgtgctgctgttcccagacc	aggaacattctcctcctgacctgctgcagaaacagctcctcctctgca
4257 (T/C)	Intron	rs41316829	TCTGTTCTTTGTCTCACCTGTGAGAATGCAGGGATCCTGT CTGTCTTGT	GCAC TTGTGGTTCCAAAAGCCGATTTGTTTACCTCTGTATC TGTTAAAT
4606 (C/T)	Intron	rs41316831	ATGGGAGTAGGGAGTAGTGGTGATAAGAAGAAAACAAAAG GACTTTTTTT	TTTTCTTTTAAAGATTAATGTTTAGaaTAgGCTTAGTgctagAaGT TCAGC
4965 (G/A)	Intron	rs41316833	TAGGAAGCTGAAGAAGATAATGAAAGCGATTTGAAATAGAG GAACATAGA	TTATGAAATGAATAGGGTGCAACATGAAAATAACAAAACCTA AGAATGAA
5032 (G/C)	Intron	rs2724382	GTGCAACATGGAAAATAACAAAACCTAAGAATGAAGAGAAGG AAAAGCAAG	TTAAGTTTGTAGGTTTATAAGGGTAAATCAAGACAGGTATGAA ACCTAGAG
5634 (T/A)	Intron	rs41316835	ttacaataatctcaccattgtttgtttgacagcagtgatttga	taccaaaatttttgaatagctactctgagtgacatattgtctgggtg
5724 (G/A)	Intron	rs41316837	tgctgctgggtgttggccacatggatgaatggagttggcctgttaact	ttaaacacaaaaGcatgtgatagttacctgagagatccatgcaggggaga
5737 (A/G)	Intron	rs11118516	gtggccacatggatgaatggagttggcctgttaactAttaaacacaaaa	catgtgatagttacctgagagatccatgcaggggagagtcagggggaagg
5872 (A/G)	Intron	rs41316839	atgcttctggaggagatgatgggtgattaaggaagatgagttgagcag	agttgatgctaccagccagggaggaagggattcagagcagaggaagcaa

6181 (G/T)	Intron	rs41316841	tttggttgactagcacaacatgaatccaaactagggtgtttgatt	cccaggcaggtgtagcagacaatttctgaatactattgcatagagat
6254 (A/T)	Intron	rs41316843	ttctgaatacttattgcatagagattgtcagtgtagcattctg	gcaccacaaggtgagtagtagaaaaagaagaacatggtcttGaccc
6300 (C/G)	Intron	rs41317045	cttgTgcaccacaaggtgagtagtagaaaaagaagaacatggtctt	acccccaggaactgaccttaagagaagacacctgaagtgacaagctg
6391 (T/C)	Intron	rs41317047	tgacaagctgtataagttagtgtttaaacatggaagaacaatctgag	aGagtacttatactgtagaagactctTagaggGgaagttactttgaa
6393 (A/G)	Intron	rs17048573	acaagctgtataagttagtgtttaaacatggaagaacaatctgagCa	agtacttatactgtagaagactctTagaggGgaagttactttgaaat
6420 (G/T)	Intron	rs41317049	actatggaagaacaatctgagCaGagtacttatactgtagaagactct	agaggGgaagttactttgaaatgaatttagaaaaatgtggggaaagatg
6426 (A/G)	Intron	rs2724383	gaagaacaatctgagCaGagtacttatactgtagaagactctTagagg	gaagttactttgaaatgaatttagaaaaatgtggggaaagatgcatcca
6564 (A/T)	Intron	rs12067460	tcagttattgtcgaatgttattccaaacaaacaaaagctaatagga	gttacttaaacatgcaagtccatttctccactActatgagcactcag
6600 (G/A)	Intron	rs2724384	aaaagctaataggaTgttacttaaacatgcaagtccatttctccact	ctatgagcactcaggtaaaagcatggaacagtcatttaaatctgccaa
6993 (G/A)	Intron	rs41317051	tagtaagtaaacaaacctcttttttctgctgctagagattg	tacatttggggtagacattccactacggtgtagatttctctgt
7644 (A/G)	Intron	rs41317053	tgttctgacaataagctgtgtaagcattaagaatgtagtaatcatga	aatgttcctcacaactgaggtCcctatttaaatctgccaactcta
7669 (T/C)	Intron	rs41317055	agcattaagaatgtagtaatcatgaGaattgtcttcacaactgaggt	ccctatttaaatctgccaactcttagagttgaagtagggctcacaataat
7756 (C/-)	Intron	rs41317057	gggctcacaataatgagaaatagaattgccaactaaagatacactgtat	cagatgactctgtaaagttatcagacaaaactgacgcggttagcctt
7828 (T/C)	Intron	rs41317059	atcagacaaaactgacgcggttagccttaccatcaTGTTGATCAAAAT	TCTCAGTTGAAAAACCTTATTTTTGAGACTGCTACAGTGTGA AGCATCTC
7865 (A/G)	Intron	rs41317061	TGTTGATCAAAATCTCTCAGTTGAAAAACCTTATTTTTGAGA CTGCTACA	TGTGAAGCATCTCAAGAGCAGGACTGAGCCCTCGGTAATA GCCTTGT
7907 (A/G)	Intron	rs41317063	CTGCTACAGTGTGAAGCATCTCAAGAGCAGGACTGAGCCC TCGGTAATA	CCTTTGTTCTGTAGGGTTTTGAAGTTGTATATATTGGAGATA CTAGACAT
7925 (A/T)	Intron	rs2724385	TCTCAAGAGCAGGACTGAGCCCTCGGTAATAGCCTTTGTT CTGTAGGGT	TTGAAGTTGTATATATTGGAGATACTAGACATTTAAGATAAA TGTGCATT
8002 (G/A)	Intron	rs41317065	AGACATTTAAGATAAATGTGCATTTATAGAGTAAATGTAAGT ATTCTGCT	TAACAGAATACTTGAGGCTAGGCATTATAAAGAAAAGAAAT GTATTTGG
8084 (A/G)	Intron	rs2724386	AGAAAAGAAATGTATTTGGCTCATATTTCTGGAGGCTGGAG AGTTCAAGG	GATGGCAGTAGTGTCTGGCAAGGGCTTTTGTGCTGCATCAT AACATGCTG
8203 (G/A)	Intron	rs41317067	TAGCATGTGCAAAAAAGACAAAGCACAAAGGGAGGGGGTTC TCGCTTTATA	CAACGTGCTCTTATGGTAATGAATCCAAGCCTACAAGAATG AGAACTCAT
8310 (G/A)	Intron	rs1891423	AAGAATTAATGAAGACCCTCTAGAAAGGCATTATACCTCTTA ATGACCTA	TCATTTCTTAAGGCCCCACCACCTCTCAATGCTGTTACACT GGCAATTA
8393 (T/A)	Intron	rs35677203	CTGTTACACTGGCAATTAATTTCAATATGAGTTTTGGTAGA GACAAACC	GATTCAAACAATAGCAGTAAACACCATAATATAGAAAAAGT AAGTGAGT
8455 (T/A)	Intron	rs41317069	TAGCAGTAACACACCATAATATAGAAAAAGTAAAGTGAAGTCTT GGAGGAAA	ATCAGCTGTGACTATGTAAGGCAACTGACAGTTTTTAAAATT TGGTCAAG
8693 (- /CTCT)	Intron	rs41317071	aaaATactaaATGAGAAATACCAATAAGTAGAATTATTCATGA TAATTA	AAGAGTCCAGAAGGAGGAGAGATTCTGTGAATTTAAATCA GGGAAGATT
8849 (T/C)	Intron	rs41317073	ATTCCTAGAAATACACTCTGTTCTAAATAATATTAATAGAAGC TAAAACT	ATGTAGCACTATCTATGTGCCAAATGCTAACTTATCTAATCC CCTAAACA
9014 (T/G)	Intron	rs2724387	TACCCAAGCTCAAGAACTAGATAAGTTGAGAAGCAGGGAC TTGAATCTA	CCATTCCAGCTCTAGGGCCTGTTCTCTCTACACAGTCCTTG TCCTTACTG
9620 (T/C)	Intron	rs41317075	ttctttatgtgggtatatactattggtattatcatattggaattcaaa	ggagaggttttaaataattTgattctttgtttgtttgttttc
9643 (G/T)	Intron	rs41317077	ttggtattatcatattggaattcaaaCggagaggttttaataattat	gattcttttgggtttgttttcttaagacacggctcaggctatt
9717 (-/A)	Intron	rs34743953	ttcctaagacacggtctcaggctatttccaggctgggtgtagtgga	caatctcagctcaTgtagcctcagctctccaGtagctgggctcagg
9731 (C/T)	Intron	rs41317079	gtctcaggctatttccaggctgggtgtagtggaAcaatctcagctca	tgagcctcagctctccaGtagctgggctcaggcatgtagcctatg
9751 (A/G)	Intron	rs41317081	ctggggtcagtggaAcaatctcagctcaTgtagcctcagctctcca	tagctgggctcaggcatgtagcctatgtagccttttgaattttt

9975 (T/G)	Intron	rs2724388	taatttgaagaataaatgcaatacaaatcaatcatgtaacataat	atgaaaaataaatttccaatcaaaataaaaattagtgagaatagtg
10046 (T/C)	Intron	rs2724389	aaatcaaaataaaattagtgagaatagtgcatgttccacattttgca	atccttcaacatctggctaaagcaagattgtattggcctgtgtgt
10475 (T/C)	Intron	rs41317083	GCTGTACAGGAAGCATGGtctgcatctgctgggggttggtaggacct	gggaaacttaacaccattgggaaagacagaaggagagcaaggtgtctca
10885 (A/C)	Intron	rs2466572	gatataattgctcatagaaaccttcttaaatccatattgaattcacia	cagcttgtagaaacctatattgacaaattattgaagacacagaaatt
10951 (T/A)	Intron	rs41258244	ctatattgacaaattattgaagacacagaaatttactaatgtgtctt	atctttacatttcttctcttttcttatttttaagaggtttgtg
11247 (G/A)	Intron	rs4844390	ttcaatttatttcttcttattttaaatactatgaaacattttgtaa	tagtttcatctacagataaaacaaagcagggtgatgtcttctctctg
12104 (A/G)	Intron	rs2724359	aaaaagaaaagtctcaaatcaatgatctaatttccaccttaagaaact	aaaaagagcaagttaaatccaaactagcagatgaagaaatgataaaa
12455 (A/G)	Intron	rs41317085	agctttaccactgctggtggagccaaccactgccgagggctctc	ccaacacgctggcagatccaagaggagatggcccaggatgagacGggc
12501 (A/G)	Intron	rs17006738	catcGccaacacgctggcagatccaagaggagatggcccaggatgagac	tggcacacacaggcaccgagaggtgtgggttggcgtttccactgctc
12592 (C/A)	Intron	rs41317087	tccactgctggttctgagagacgctgctgctgctgctgctgctgctg	tgtggaagccaggggggtgtgccaatgcccctgtggacactgctgc
12752 (A/G)	Intron	rs41317089	tgaagagcagcatctgggagacgagccctggggaaaatagaggagc	ttcagaagtagctagatgagatattgaaatactgaaagacaaaacccc
12861 (T/C)	Intron	rs17006743	tgaagaactggcctcagatgtggtcagttcctatgatgacctggacaca	gggtctgaccacacgatggagggtggCctgcaagcattcagaggctt
12889 (G/C)	Intron	rs6671947	ttcctatgatgacctggacacaCgggtgctgaccacacgatggagggtg	cctgcaagcattcagaggcttgggctgctgcccgtccgcccctccact
13281 (T/C)	Intron	rs17006749	gacatccccacagccctgcccctcatcactttctgtctctcggaga	ggCgagctgcaactgcagcaatctgtttaaatttaggtagtgtaattc
13284 (T/C)	Intron	rs2796269	atccccacagccctgcccctcatcactttctgtctctcggagaCgg	gagctgcaactgcagcaatctgtttaaatttaggtagtgtaattctta
13978 (T/C)	Intron	rs41317803	aggcacctgctctggcagcagactgagctcctgggggtgtcacggagctg	gggtgcccagctcacatgcttggaaacagcGtgtgctgctgattgaa
14010 (A/G)	Intron	rs2796270	gggggtgacagggagctgCgggtgccagctcacatgctgctggaacagc	tgtgctgctgattgaaatgctactgctgctgttaaattgggtgctg
14292 (C/T)	Intron	rs17041782	CTTCCCCCATCCCTTAGCCAAAAAGCTTTTATATTCTTTTGTGCATATGG	CATTCTTTAATATCAGTGATGTAAACTTTACTTGATTACTTTTAAAAAT
14626 (C/T)	Intron	rs2488252	TCCAGATGGCTTCACTGGGGAGTTCTACCAACCATCTAAGGAATAAATCA	AGCAATTTACACAAGCGTTTCAAGAAAGTGCAAGAGGAGGGAACACTTC
14634 (T/C)	Intron	rs7545126	GCTTCACTGGGGAGTTCTACCAACCATCTAAGGAATAAATCATAGCAATT	TACACAAGCGTTTCAAGAAAGTGCAAGAGGAGGGGAACACTTCTCATCCCA
14777 (-/A)	Intron	rs41317805	AAAAACATTATAAGAAAATTACAAATAATATCCTTGATGAACA CAGGACC	AAAATCTTCAACAAAATATTAGCAAACCAAATCCTGTGATACATAAAAAG
14954 (G/T)	Intron	rs41317807	tttgccacatcagtagactattaaggagaaaaaaatcatgtGGTTATCT	ATTAGATGCAAAAAACAAAGAAAATGTTTGACAGAATTCATCATCTTATT
15107 (C/A)	Intron	rs2488253	TTACCCTGATAACAGACATCTACAAAAATCTCACAGCTAACA TTACACTT	ATGGTTCAAAAAAATTATACTTAGTGGTAAAAAGTAACATTGTACTTAGT
16004 (G/C)	Intron	rs41317809	ctttactatggtgtagttacatgattattgcatgtgcaaaactgata	agctgtacactgaaatggtgaatttactgtatgtaaatatataccaat
16406 (G/A)	Intron	rs41317811	ataaatattaaaatttaccaccaccaccaccctgtagtatttgg	aaaactaccaacaaaaTttaaaagcagccagtgatggggaaaacaa
16424 (G/T)	Intron	rs41317813	ccaccaccaccaccctgtagtatttggTAAAAactaccaacaaaa	ttaaaaaagcagccagtgatggggaaaacaaacaaaccCgtattacat
16444 (T/C)	Intron	rs2466571	cagtagtttggTAAAAactaccaacaaaaTttaaaaagcagccagtg	tggggaaaacaaaaaacCgtattacatttagggaggcagggacaagt
16465 (T/C)	Intron	rs41317815	caaacaaaaTttaaaaagcagccagtgatGtggggaaaacaaacaaacc	gtattacatttagggaggcagggacaaglaagaatgacagccagccaagt
16878 (A/G)	Exon	rs17006830	aagcaacagttatgttgaatgagataaggggtttacctgtagggcagc	acacaattgtctgacagtaacagacttggatccccagttccaaag
17080 (C/A)	Intron	rs41317817	caaaataactgaaaagaacaatttttagtatttaactctgtctgtattc	tttctaTgccagatgaatgacacgaaattcacataaaattctgctgtgtg
17087 (C/T)	Intron	rs41317819	actgaaaagaacaatttttagtatttaactctgtctgtattcAttcta	gccagatgaatgacacgaaattcacataaaattctgctgtgtgatttt
17183 (G/A)	Intron	rs41317821	tttttgtctttccagggcttctgacagctgtagacattgcatgggt	tatgcttttaatttttagtataaaaagtgaaattacaacaacttttg
17251 (A/T)	Intron	rs11118555	tatgtataaaaagtgaaattacaacaacttttgaattgaaacatgggca	ttttactaagtaagtcaaatggcataattcatataaatgaaatgaga
17314 (G/A)	Intron	rs17006838	aagtcaacaatggcataattcatataatgaaatgagagcaataactccc	agtgggtgAtcttcaacatttttttcttagtctgctcctcatcta
17323 (G/A)	Intron	rs41317823	atggcataattcatataatgaaatgagagcaataactcccAagtggtg	tcttcaacatttttttcttagtctgctcctcatctagtaaaaac
17526 (A/G)	Exon	rs17006843	actcccaagtgtttggccaactcattatttttggttccagtgctc	acttctccactacaaaatctccagcgtccagtgctcagggttagtaat
17589 (G/T)	Intron	rs2724374	acaaaatctccagcgtccagtgctcaggttagtaatttctgcttata	ttttcaaaaactttaaattcctggtattttataaaactcttcaa

17937 (A/G)	Intron	rs2488254	agcacttagcacagtgctggttagagaaagctcttagagctagccaat	tgactatcctacactaaattaatgttagggagggggaaggtcatgta
18116 (T/C)	Intron	rs41317825	tattttattctttcagaagtgtatctgtgacaccttactgagittgtt	ctattgcaggactcttcattTctggaatgcaactagtttagctctct
18139 (C/T)	Intron	rs2488255	tctgtgacaccttactgagttgttCctattgcaggactctttcattt	ctggaatgcaactagtttagctctctctgtagtaaaacattaaacagggga
18325 (A/G)	Intron	rs2796271	tttttcttttagtgggcagtttatactggcaatagcaactcaatttat	gcaactgaaaggcaggaaaagctctatttactgaaataaaatagaagac
18696 (G/A)	Intron	rs41317827	tcctatccccaataatataaaggatgcaagagaattatgcatgttaac	tagtaattaagataacctcttataggctgggtgggtagctcacacctgt
18924 (G/C)	Intron	rs41317829	acttgaatcccagctgctcgggaggccgaggcaggagaatcgctgaac	cagtgggcagaggttgacgtgagccaagatgaccactgcactccagcc
19556 (C/T)	Intron	rs2724360	ttccctttttttttgagacagagcttgcctgtcaccaggatgg	gtgcaGtggcggtcttgctcactgcaacctccgctcccggttcaa
19562 (C/G)	Intron	rs41317831	tttttttttgagacagagcttgcctgtcaccaggatggTgtgca	tggcggtctggctcactgcaacctccgctcccggttcaagcgggt
20088 (T/C)	Intron	rs41317833	ttataaaatcaaacctattttctaggtcctaggcctactacaagcctc	agtctcaaattatccaggttggttaactcttactcactgataattgta
27144 (T/C)	Intron	rs12138764	tttagattgggggtacagggtgaaggtttgtacataagtaaacgtgtca	agggattgtgtacataaactattcatcaccaggatfaagcctagta
27328 (A/G)	Intron	rs41317835	gtgttcattagtcttaccatttagccccacttataagtgagaacatgc	gtattgggacgttctgtggaagacatgctgctcttttttagct
27384 (-/G)	Intron	rs41317837	tgggacgttctctggaagacatgctgctgtcttttttagctacgta	tattccacgggtatagtaccacattttcttaccagctgtcattga
27511 (C/T)	Intron	rs41317839	ttgctattgtgagcagtgctgaggaacattcatgtgcatatatactt	ggcagaatgattatatttctctgggtatatacccagtaatgggattgct
27609 (C/T)	Intron	rs41317841	gctgggtgaaatgtagtctgttttaggtctttaggaatcgccatac	gctcccacaatgggtggaactaaatacactcccacgaacagcatataag
27852 (T/C)	Intron	rs41317843	tgtatgttttggccacatatatgtctctttttaaAAGTGTCTGTCA	GTGCTTTGCCACTTTTTAATGGAGTTGTTTTCTCTTGTAA ATTTTTT
27911 (G/A)	Intron	rs2796276	CCCACTTTTTAATGGAGTTGTTTTCTCTTGTAAATTTTTTA AGTTCcT	TAAATGCTAAATATTAaggccttgtcagatgcatagttgcaaaaatgtt
28122 (-/A)	Intron	rs41317945	TTTTTGATGCTTTGTGCATGAAATCTTTGTCTGTTATTATGTC CAGAGTG	TATTGCCTAGGTTGTCTTCCAGGGTTTTATAGTTTTGGGTT TTACATGC
29566 (G/A)	Intron	rs41317947	gcaccatttttgaataagttgtcttccccactgattgaaatgtca	ttgtatcatacattgattcataggtgttCcatcctctttctccttgg
29597 (A/C)	Intron	rs41317949	gcaccatttttgaataagttgtcttccccactgattgaaatgtca	catcctctttctccttgaacttggcattctctattctgCagcaa
29642 (T/C)	Intron	rs2724391	gtgttCcatcctctttctccttgaacttggcattctctattctgt	agcaaaagcaagtcttttttttttttactgtagtactatagt
29887 (A/C)	Intron	rs41317951	accatcagaccatcctctctagaatattataatcatcccacactgaat	tctactattaacagtaactctccattcctccatccccatcacctga
30647 (C/A)	Intron	rs41317953	atatcaaggcatggcactctgtgaggccctctgcttgcataatag	tggaggcatcacatggtggaaggaaaaagagacggtagagagagagta
30783 (G/C)	Intron	rs41317955	cccctgcaataacgacattagtcattcatgaggacagaccataatgac	caaacacctctaaaggcgccaccccaataacattacattgaCaataaa
30826 (A/C)	Intron	rs41317957	taatgacCcaaacacctctaaaggcgccaccccaataacattacattga	aattaaattcatcatgagtttgaaggggacattcaaaccatagaccGt
30875 (A/G)	Intron	rs41317959	aCaattaaattcatcatgagtttgaaggggacattcaaaccatagacc	tcctaatagatagaagtagatagcatactagatgcatctccataa
31008 (-/T)	Intron	rs41317961	cttattgtcattgtataatctcttagagaaacatcttttaagctt	tgccatttcaagttgggtgacattgttactgagtttaagagttat
31422 (T/C)	Intron	rs41317963	ttttgcatgtggataccagtttaccagcaccattgttagaagagact	ccttccccattgactgttctctgtcacgctgttgaacacgggtgac
31680 (-/TT)	Intron	rs34834365	aattgtggtccctgagattcatalgtatttggaaatggattttctat	cagaaaaaaaaccataaaataaccatcatcaggatttcataggggttg
32125 (T/C)	Intron	rs41317965	gggatccttagggtttctaaataaaagatcatgtcatctgcaaacagag	Gaattttattctccttcaatttgaattcttttctacctaattg
32126 (A/G)	Intron	rs41317967	ggatccttagggtttctaaataaaagatcatgtcatctgcaaacagagC	aatftttattctccttcaatttgaattcttttctacctaattgc
32221 (C/A)	Intron	rs2796278	aattgctctgattagaacttcagtcctatgtcagatagaagtgcaaac	tggacacctgtcttctctgatctagggaagcctcattcatt
32282 (G/A)	Intron	rs41317969	gtctgttctgacttagggaaaaagcctcattcatttaacattgagt	tgatgtagctgtgggttttaatatatggccttattatgtgaggaag
32691 (T/C)	Intron	rs41317971	CTGCCTCGGCCTCCCAAAGTGTCTGGGATTACAGGCGTGAG CCACTGTGCC	GGCTAATCCCTCTATCTTTAATTTAATTAGAAATCACATTGG ATTTATA
32957 (A/G)	Intron	rs1962149	ATTATATTTAAGGGATTTTCTACAAAGGTGAAAAAAATCA CCCTATGA	TTTAAAGGATTTAAGCTTTATATTTAATTCTTTCTCTTTTA TTAATT
33193 (C/G)	Intron	rs41258534	gagggtcccaaacataggatcctgttaggtaagataaacttctaaat	ctgtgtgtatgtaggttaaataataaaacacaatttctccaca
33645 (G/A)	Intron	rs41317973	ctgttgccatctaaactgttaaaccctgataactgttatgagatgag	agagcagagttgaacatagcactttatgctttagcttatagcaattaat
33891 (G/T)	Intron	rs41317975	tgttcatttattaggaatcctatggtatttaggactatgtctaat	tggggcagggcagagtaggaagtagagaggatgggaaggggattgata

33953 (C/T)	Intron	rs7541230	cagagatggaagtagagaggatggaagggtgataagataaagat	gtttggaagactttgaaataccatctgggcaatagaataatagaatt
34035 (A/G)	Intron	rs41317977	caatagaataatagaatttattatgactcactctacagatcacttttg	aggaaaaatacaaaataaatgctacaaaataagaaatgacagaatga
34492 (C/G)	Intron	rs11806810	agtctgcagggtgagggagcccccaggaacttataatcatggaggaag	ggaagcaaacacattctctcacatgatggcaggaaggagaatgatgag
34563 (T/C)	Intron	rs41317979	tcacatgatggcaggaaggagaagatgagaaccaagtgaggaggaagc	gcttataaaaccatcagatctcgtgagaacttactatcatgagaatgca
34844 (T/C)	Intron	rs35366573	ggaactgtttcttccagatgttggctcattgctgtgattgtattg	cataggtaatgatacaaaaatttgacaccacttaagtcaaaaaatttg
34997 (T/C)	Intron	rs41317981	tgtaaatggtaaacaccgatttaggaaaacctgactttttatgatata	ttaactacctacctgtgtgtagtatttatactctgttatattctgtat
35468 (C/T)	Intron	rs11118580	aagaagggttaaataaagcatgtttcttttaactcttggccttcta	acttaacatgctttgtgcagcttcagttgtaactgtattgcatgcta
36023 (T/G)	Intron	rs17007110	atccgattccctctatgttctcgaatttaccagattgcagtaaaact	atagggftaaagttaaaatgctgagaggggtAgatctGtaaggtacct
36057 (G/A)	Intron	rs41317983	agattgcagtaaaactGatagggftaaagttaaaatgctgagaggggtt	gatctGtaaggtacctcaattaaactgtcttttaataataaaaaatgta
36063 (A/G)	Intron	rs859705	cagtaaaactGatagggftaaagttaaaatgctgagaggggtAgatct	taaggtaacctcaattaaactgtcttttaataataaaaaatgtaaaagt
36502 (T/G)	Intron	rs6657476	cttactcataaggaactcaaaacttttcatattactgtgtatcttt	aaatacccataatcccttactgtaactttaaactgttattatggaac
36871 (G/A)	Intron	rs41317985	tttgcctttttgtgatggagtctgctctgacccaggctggagtga	tggcgcaactctggctcgtgcaacctggcctctgggtcaagggtt
37106 (T/C)	Intron	rs4844619	ccgcccacctggcctcccaagggtgctaggattacaggcatgagccaccg	gcccggccttaatgggtctttaaagctcaacagttatctgactgttaca
37316 (G/C)	Intron	rs41317987	tgccattatataaaatataatattttgggaaggtatgatatcttag	caatgcaacataatctcgtcaaatAgtagcacaactgaggaaaaat
37344 (C/A)	Intron	rs41317989	tggaaggatgatattcttagCcaatgcaacataaataactctgcaaat	gtagcacaactgaggaaaaatgctcagaaaaatgggtgagagacgaaa
37456 (G/A)	Intron	rs10449303	cttgaacttataaataaactcgtgggaatctttagaatagatgtt	cccttttatgacaggaacatactcgtatggaaatcagcatatgtaatg
37896 (C/T)	Intron	rs41317991	tttctaataatgaataatggaagttaagattcctcatccatgtg	atccttaaaaaaggctatgggtaataaataagtagtactggctttcttac
38130 (A/G)	Intron	rs41317993	aaccccgctcctactaaaaatacaaaaaaaataaataatggtc	ggcgctgtagctccagctactctggagggtgagggcaggaatggcgt
38668 (A/G)	Intron	rs859706	ggcaaaagggttaagatttctgccactttctgttcatagctctcagct	agaacagtataggataaccagtggtccgaaacaggtcccatccatgct
39497 (T/C)	Intron	rs41317995	Tggattgatacatactcaatgtatccctcaaaatgagggtgttaggc	gggtttgggtgctcacgctgtaatcccagcaactttgtagggcaggcc
39986 (T/C)	Intron	rs41317997	Tcgtttcttttgggttgaagtcactatttattcagccgtttctcttc	tctgttcagcacatacctaactgatgagaccacagagaagtaaaatgta
40399 (A/G)	Intron	rs41317999	tacctgtaaaacagctgtgaatccaaaagtaagaattgtgagccaact	Ggaaataaccacagaatcaactcatttaagtgcaaggaggaataatgcc
40400 (A/G)	Intron	rs41318001	acctgtaaaacagctgtgaatccaaaagtaagaattgtgagccaactG	gaaataaccacagaatcaactcatttaagtgcaaggaggaataatgcc
41263 (T/C)	Intron	rs41318003	acagctattgagtaaacaggcacatggtgcccacagcatgggtatgctgga	gaagggtgatttatatcccgggagggatggaagtggaagtgatgagatt
41825 (A/G)	Intron	rs1142469	cagcactttgggagggcaggcgggctgacttaaggtttagaccag	ttggccaaaatgggaaaccctgttctactaaaaatacaaacattagct
41991 (T/C)	Intron	rs41318005	ccgtggaggaggaggtgcaagtgagccaagatcacaccacactgcactc	agcctgggtgacagagcaagactctgtctcaaaagaaaaataaagaa
42250 (G/C)	Intron	rs41318007	cgtttacgctgaggttgaatttttgaattttgagctgagaccctgg	gatgacctgagcagtaggagataaattccacatgcttagcgttccagta
42791 (A/G)	Intron	rs12568382	tagaataataggtttataaagatgctattgttataactaaaagtgtagc	taaaacttagttatttaggagactcttagtgaatacatgatttctgta
42887 (G/A)	Intron	rs41318009	cttgacagtggggtagatgaggtcactacatactgaaacagtagaacc	ctatcttttaagggtctgtgcccagagctacagctttaaataaggaggga
42951 (A/C)	Intron	rs41318011	ggttctgtgccagagctcagctttaaagtgagggtcaggaagcatg	gttgtctccagcttcccaatggcctcatcaaaatgaggacatagt
43723 (G/A)	Intron	rs2724390	agtggtgaaatcttttgttcaagattaatgccaactcctaagatt	ttcttccaactatagaatgtattttatatactgttcaatgtaaaaag
44117 (C/T)	3' UTR	rs7144	ccataacaggagtgccactcattggtgcaagtgaaactgtagtctgt	gtttcccaagagaactccGtatgttcttaggttgtagtaaccactc
44138 (A/G)	3' UTR	rs6664092	atgggtgcaagtgaaactgtagtctgtTgtttcccaagagaaactcc	tatgttcttaggttgtagtaaccactcgaattctggttacctggtt
44655 (C/T)	3' UTR	rs14374	atgtttagttgcacaaatgggccaagaacattgctgaggaagata	gattggaaaatcaagagtgtagaagaataaatactgtttactgtccaaa
45095 (G/T)	3' UTR	rs1237	caaatgttactaaatataatagaccagtttctctggaagttgtt	aaatgacagaagcgtatataaattcaagaaaatgagctgcaaaaatgt
46343 (-/T)	3' flanking	rs41318013	aaactgaacaaggctagctgttttagaatacagaagcattgtctcaaa	aaacataaaaaatacagaagcattctgttttaaaaactaggtgaaaat
46403 (G/A)	3' flanking	rs41318015	aatacagaagcattctgtttaaataaacactaggtgaaaattatata	tgtgtgtgtgtatataatataatataatatacacacacacacaca
46532 (A/G)	3' flanking	rs41318017	gatggagttcagatctgttccaggctgagtgcaatggcactatctc	gctcaccacagctccacctctgggttcaagcGattctctgactcagc
46556 (A/G)	3' flanking	rs2745970	gcaatggcactatctcGgctcaccacagctccacctctgggttcaagc	attctctgactcagcctcctgagtagctgggttacaggcatgaccac
46777 (G/C)	3' flanking	rs41318019	gctgggattacaggcatgagccaccgcccggcctgaaaattatattga	tatgaatagagcattttgaaaaatctatgtgacctgagactgtaattg

\*SNPs, single nucleotide polymorphisms; UTR, untranslated region. SNPs are numbered based on GenBank accession no. AY916779. Nucleotides in upper case are unique flanking sequences and nucleotides in lower case are sequences in a repeat region.

Table 3. Single nucleotide polymorphisms in the coding region of CD46 in Coriell Cell Repository (CCR) reference samples and case-control study samples

Site* (rs no.)	Amino acid position	Residue	PolyPhen†/SIFT‡ predicted function	Population sample (minor allele frequency)
1992§	13	Serine to phenylalanine	Benign/tolerated	Asians from CCR (0.05)
9408 (rs12126088)	139	Leucine to leucine	Not applicable	Case-control study (0.02)
9444§	151	Serine to serine	Not applicable	Case-control study (0.01) and Asians from CCR (0.04)
16878 (rs17006830)	266	Aspartate to asparagine	Benign/tolerated	Africans from CCR (0.02)
20088 (rs41317835)	324	Proline to leucine	Probably damaging/tolerated	Africans from CCR (0.02) and case-control study (0.01)
34844 (rs35366573)	353	Alanine to valine	Benign/tolerated	European-Americans from CCR (0.02), Hispanics from CCR (0.08), and case-control study (0.02)

\*Numbering based on reference sequence reported as GenBank accession no. AY916779.

†PolyPhen, polymorphism phenotyping (1).

‡SIFT, sorting tolerant from intolerant (2).

§Not reported in single nucleotide polymorphism database, but reported in the literature (3).

Table 4. Unadjusted p values for association test between case/control status and tag SNP genotypes in white case-control study samples\*

SNP (rs no.) genotypes	No. cases	No. controls	General genotype model p value†	Dominant model p value‡
668 (rs11118514)			0.2305	0.4610
CC	13	26		
CG	0	1		
GG	1	0		
1303 (rs2796267)			0.0482	0.2817
AA	4	6		
AG	8	12		
GG	0	4		
6420 (rs41317049)			<b>0.0176</b>	<b>0.0440</b>
TT	10	28		
TG	6	3		
GG	0	1		
7925 (rs2724385)			0.0174	0.1437
TT	5	5		
TA	8	13		
AA	2	11		
8393 (rs35677203)			0.3199	0.3199
AA	15	26		
AT	1	4		
TT	0	0		
9751 (rs41317081)			0.2452	0.2452
GG	14	28		
GA	2	1		
AA	0	0		
10885 (rs2466572)			0.1383	0.2305
CC	4	10		
CA	9	11		
AA	2	3		
12104 (rs2724359)			0.0669	0.1775
GG	4	10		
GA	9	11		
AA	2	3		
13284 (rs2796269)			0.0296	0.2575
CC	0	3		
CT	6	15		
TT	10	11		
14777 (rs41317805)			0.2416	0.2416
A/A	12	21		
A/-	2	7		
-/-	0	0		

34492 (rs11806810)			<b>0.3443</b>	<b>0.3443</b>
GG	13	28		
GC	2	3		
CC	0	0		
36057 (rs41317983)			<b>0.0902</b>	<b>0.1579</b>
AA	11	23		
AG	3	3		
GG	1	0		
36063 (rs859705)			<b>0.0586</b>	<b>0.1804</b>
GG	4	11		
GA	8	11		
AA	3	5		
41825 (rs1142469)			<b>0.0553</b>	<b>0.1623</b>
GG	5	14		
GA	6	7		
AA	2	4		
42250 (rs41318007)			<b>0.4637</b>	<b>0.4637</b>
CC	9	21		
CG	1	2		
GG	0	0		

\*SNP, single nucleotide polymorphism. Values in **boldface** for SNP 6420 were statistically significant ( $p < 0.05$ ) in the general genotype and dominant models.

†Fisher exact test ( $2 \times 3$ ).

‡Fisher exact test ( $2 \times 2$ ).

## References

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