

**Supplemental Table S5.** A:B:C:DRB1 Haplotypes in Italian and Spanish Americans.

Locus Set	Haplotype	Italian American		Spanish American	
		Haplotype Frequency	Haplotype Count	Haplotype Frequency	Haplotype Count
A:C:B:DRB1	0101:0102:1501:1501			0.00179	1
A:C:B:DRB1	0101:0102:1801:1401	0.00183	1		
A:C:B:DRB1	0101:0202:4002:1303			0.00179	1
A:C:B:DRB1	0101:0210:1503:0301			0.00179	1
A:C:B:DRB1	0101:0302:5801:0403	0.00183	1		
A:C:B:DRB1	0101:0303:1501:0901	0.00183	1		
A:C:B:DRB1	0101:0303:1501:1101	0.00183	1		
A:C:B:DRB1	0101:0401:1401:0701			0.00179	1
A:C:B:DRB1	0101:0401:3501:0101			0.00277	1.5
A:C:B:DRB1	0101:0401:3502:1104	0.00366	2	0.00179	1
A:C:B:DRB1	0101:0401:3503:0701	0.00366	2		
A:C:B:DRB1	0101:0401:3701:0401	0.00183	1		
A:C:B:DRB1	0101:0401:4402:0402			0.00179	1
A:C:B:DRB1	0101:0401:5301:1301			0.00179	1
A:C:B:DRB1	0101:0501:4402:0401	0.00366	2		
A:C:B:DRB1	0101:0501:5501:1302			0.00179	1
A:C:B:DRB1	0101:0602:1302:0701	0.00183	1		
A:C:B:DRB1	0101:0602:1302:1001			0.00179	1
A:C:B:DRB1	0101:0602:3503:0801	0.00183	1		
A:C:B:DRB1	0101:0602:3701:1001			0.00358	2
A:C:B:DRB1	0101:0602:3701:1401	0.00183	1		
A:C:B:DRB1	0101:0602:3701:1501	0.00366	2		
A:C:B:DRB1	0101:0602:5001:1501			0.00179	1
A:C:B:DRB1	0101:0602:5701:0301	0.00366	2		
A:C:B:DRB1	0101:0602:5701:0701	0.01465	8	0.00358	2
A:C:B:DRB1	0101:0602:5701:1104	0.00183	1		
A:C:B:DRB1	0101:0602:5701:1301	0.00183	1		
A:C:B:DRB1	0101:0602:5701:1501	0.00183	1		

A:C:B:DRB1	0101:0701:0702:0411			0.00179	1
A:C:B:DRB1	0101:0701:0801:0301	0.04938	27	0.02122	11.8
A:C:B:DRB1	0101:0701:0801:1102	0.00183	1		
A:C:B:DRB1	0101:0701:0801:1302			0.00179	1
A:C:B:DRB1	0101:0701:0801:1401	0.0019	1		
A:C:B:DRB1	0101:0701:0801:1501	0.00916	5		
A:C:B:DRB1	0101:0701:1501:0401			0.00358	2
A:C:B:DRB1	0101:0701:1517:0301	0.0019	1		
A:C:B:DRB1	0101:0701:1517:0405	0.00183	1		
A:C:B:DRB1	0101:0701:1517:1401	0.00176	1		
A:C:B:DRB1	0101:0701:1801:0301	0.00183	1		
A:C:B:DRB1	0101:0701:1801:0408			0.00179	1
A:C:B:DRB1	0101:0701:1801:1104	0.00183	1		
A:C:B:DRB1	0101:0701:2705:0404			0.00179	1
A:C:B:DRB1	0101:0701:2705:1101	0.00183	1		
A:C:B:DRB1	0101:0701:4403:0404	0.00183	1		
A:C:B:DRB1	0101:0701:4403:0801	0.00183	1		
A:C:B:DRB1	0101:0701:4901:1101	0.00183	1		
A:C:B:DRB1	0101:0701:5501:1501	0.00183	1		
A:C:B:DRB1	0101:0701:5703:0405			0.00179	1
A:C:B:DRB1	0101:0701:5801:0804	0.00183	1		
A:C:B:DRB1	0101:0702:0702:0101	0.00366	2		
A:C:B:DRB1	0101:0702:0702:1501			0.00289	1.6
A:C:B:DRB1	0101:0704:4402:1404	0.00183	1		
A:C:B:DRB1	0101:0802:1402:0102	0.00183	1		
A:C:B:DRB1	0101:1202:5201:0301	0.00183	1		
A:C:B:DRB1	0101:1202:5201:1502	0.00183	1		
A:C:B:DRB1	0101:1203:3508:1402			0.00179	1
A:C:B:DRB1	0101:1203:5101:1301	0.00183	1		
A:C:B:DRB1	0101:1502:3905:0701			0.00179	1
A:C:B:DRB1	0101:1601:3801:0102			0.00179	1
A:C:B:DRB1	0101:1601:4403:0701			0.00358	2

A:C:B:DRB1	0101:1604:4402:1501	0.00183	1		
A:C:B:DRB1	0101:1701:0702:1501	0.00183	1		
A:C:B:DRB1	0101:1701:5201:0302			0.00179	1
A:C:B:DRB1	0102:1801:5703:0401			0.00179	1
A:C:B:DRB1	0201:0102:1501:0401	0.00183	1		
A:C:B:DRB1	0201:0102:1515:0802			0.00358	2
A:C:B:DRB1	0201:0102:1515:1406			0.00179	1
A:C:B:DRB1	0201:0102:2705:0103	0.00183	1		
A:C:B:DRB1	0201:0102:3701:1001	0.00183	1		
A:C:B:DRB1	0201:0102:4004:1101			0.00179	1
A:C:B:DRB1	0201:0102:5601:1501	0.00366	2		
A:C:B:DRB1	0201:0202:0702:0101			0.00179	1
A:C:B:DRB1	0201:0202:2702:1001	0.00183	1		
A:C:B:DRB1	0201:0202:2705:0404	0.00366	2		
A:C:B:DRB1	0201:0202:4001:1101			0.00179	1
A:C:B:DRB1	0201:0202:4002:0101	0.00183	1		
A:C:B:DRB1	0201:0202:4101:0301	0.00183	1		
A:C:B:DRB1	0201:0202:5101:1101			0.00179	1
A:C:B:DRB1	0201:0210:1503:1602			0.00358	2
A:C:B:DRB1	0201:0210:5201:1404			0.00179	1
A:C:B:DRB1	0201:0302:4001:1001			0.00179	1
A:C:B:DRB1	0201:0303:0702:1401	0.00183	1		
A:C:B:DRB1	0201:0303:1501:0101			0.00179	1
A:C:B:DRB1	0201:0303:1501:0401	0.00183	1	0.00179	1
A:C:B:DRB1	0201:0303:1501:1104	0.00549	3		
A:C:B:DRB1	0201:0303:4403:0402	0.00183	1		
A:C:B:DRB1	0201:0303:5201:0407			0.00358	2
A:C:B:DRB1	0201:0303:5201:0802			0.00179	1
A:C:B:DRB1	0201:0303:5701:1501	0.00183	1		
A:C:B:DRB1	0201:0304:1302:0801	0.00183	1		
A:C:B:DRB1	0201:0304:1501:0101	0.00366	2		
A:C:B:DRB1	0201:0304:1501:0401	0.00916	5	0.00179	1

A:C:B:DRB1	0201:0304:1501:0403			0.00179	1
A:C:B:DRB1	0201:0304:1501:1101	0.00183	1		
A:C:B:DRB1	0201:0304:1501:1103	0.00183	1		
A:C:B:DRB1	0201:0304:4001:0301	0.00183	1		
A:C:B:DRB1	0201:0304:4001:0404	0.01099	6		
A:C:B:DRB1	0201:0304:4001:0804	0.00183	1		
A:C:B:DRB1	0201:0304:4001:1302			0.00179	1
A:C:B:DRB1	0201:0304:4001:1304	0.00183	1		
A:C:B:DRB1	0201:0304:4001:1401	0.00366	2		
A:C:B:DRB1	0201:0304:4002:0407			0.00179	1
A:C:B:DRB1	0201:0304:4002:1406			0.00179	1
A:C:B:DRB1	0201:0305:3531:0407			0.00179	1
A:C:B:DRB1	0201:0305:5101:0404			0.00179	1
A:C:B:DRB1	0201:0306:5802:1201			0.00179	1
A:C:B:DRB1	0201:0401:1501:1301	0.00183	1		
A:C:B:DRB1	0201:0401:3501:0101	0.00183	1		
A:C:B:DRB1	0201:0401:3501:0803			0.00179	1
A:C:B:DRB1	0201:0401:3501:1101			0.00179	1
A:C:B:DRB1	0201:0401:3501:1401	0.00183	1		
A:C:B:DRB1	0201:0401:3501:1501	0.00183	1		
A:C:B:DRB1	0201:0401:3502:0404	0.00183	1		
A:C:B:DRB1	0201:0401:3502:0407			0.00179	1
A:C:B:DRB1	0201:0401:3503:0101	0.00183	1		
A:C:B:DRB1	0201:0401:3503:0701	0.00183	1		
A:C:B:DRB1	0201:0401:3503:1301	0.00183	1		
A:C:B:DRB1	0201:0401:3503:1302	0.00183	1		
A:C:B:DRB1	0201:0401:3503:1501	0.00366	2		
A:C:B:DRB1	0201:0401:3508:0402	0.00366	2		
A:C:B:DRB1	0201:0401:3512:0802			0.00179	1
A:C:B:DRB1	0201:0401:3517:0404	0.00183	1		
A:C:B:DRB1	0201:0401:3517:0802			0.00358	2
A:C:B:DRB1	0201:0401:3517:1406			0.00179	1

A:C:B:DRB1	0201:0401:3801:0403			0.00179	1
A:C:B:DRB1	0201:0401:4501:0404			0.00179	1
A:C:B:DRB1	0201:0401:5101:0101	0.00183	1		
A:C:B:DRB1	0201:0401:5105:1104	0.00183	1		
A:C:B:DRB1	0201:0401:5301:1101	0.00183	1		
A:C:B:DRB1	0201:0401:5501:1402			0.00179	1
A:C:B:DRB1	0201:0501:1801:0301	0.00733	4	0.00717	4
A:C:B:DRB1	0201:0501:2705:0801	0.00183	1		
A:C:B:DRB1	0201:0501:4402:0101	0.00366	2		
A:C:B:DRB1	0201:0501:4402:0103	0.00183	1		
A:C:B:DRB1	0201:0501:4402:0301			0.00358	2
A:C:B:DRB1	0201:0501:4402:0401	0.01832	10	0.00538	3
A:C:B:DRB1	0201:0501:4402:0404			0.00179	1
A:C:B:DRB1	0201:0501:4402:0701	0.00183	1		
A:C:B:DRB1	0201:0501:4402:1101	0.00183	1	0.00179	1
A:C:B:DRB1	0201:0501:4402:1201	0.00366	2		
A:C:B:DRB1	0201:0501:4402:1301	0.00733	4	0.00358	2
A:C:B:DRB1	0201:0501:4402:1305	0.00183	1		
A:C:B:DRB1	0201:0501:4402:1306			0.00179	1
A:C:B:DRB1	0201:0501:4402:1602			0.00179	1
A:C:B:DRB1	0201:0501:5101:0401	0.00183	1		
A:C:B:DRB1	0201:0602:0702:1201			0.00179	1
A:C:B:DRB1	0201:0602:1302:0701	0.00214	1.2	0.00538	3
A:C:B:DRB1	0201:0602:1540:0701			0.00179	1
A:C:B:DRB1	0201:0602:3701:0701	0.00183	1		
A:C:B:DRB1	0201:0602:3906:0101			0.00179	1
A:C:B:DRB1	0201:0602:4501:0901			0.00358	2
A:C:B:DRB1	0201:0602:4501:1102	0.00183	1		
A:C:B:DRB1	0201:0602:5001:0301	0.00549	3		
A:C:B:DRB1	0201:0602:5001:0404			0.00179	1
A:C:B:DRB1	0201:0602:5002:0406			0.00179	1
A:C:B:DRB1	0201:0602:5701:0701	0.00733	4	0.00179	1

A:C:B:DRB1	0201:0602:5802:0701			0.00179	1
A:C:B:DRB1	0201:0701:0801:0301	0.00733	4	0.00896	5
A:C:B:DRB1	0201:0701:0801:0401			0.00179	1
A:C:B:DRB1	0201:0701:0801:0801	0.00366	2		
A:C:B:DRB1	0201:0701:1501:0701	0.00366	2		
A:C:B:DRB1	0201:0701:1517:0701			0.00179	1
A:C:B:DRB1	0201:0701:1801:0403			0.00179	1
A:C:B:DRB1	0201:0701:1801:1104			0.00358	2
A:C:B:DRB1	0201:0701:3924:0701			0.00179	1
A:C:B:DRB1	0201:0701:4001:1102			0.00179	1
A:C:B:DRB1	0201:0701:4901:0102	0.00183	1		
A:C:B:DRB1	0201:0701:5101:1602			0.00179	1
A:C:B:DRB1	0201:0701:5105:1104	0.00183	1		
A:C:B:DRB1	0201:0701:5801:1301	0.00183	1		
A:C:B:DRB1	0201:0702:0702:1401			0.00179	1
A:C:B:DRB1	0201:0702:0702:1501	0.02768	15.1	0.01434	8
A:C:B:DRB1	0201:0702:3577:0801	0.00183	1		
A:C:B:DRB1	0201:0702:3701:1104			0.00179	1
A:C:B:DRB1	0201:0702:3902:1104			0.00179	1
A:C:B:DRB1	0201:0702:3906:0403			0.00179	1
A:C:B:DRB1	0201:0702:3906:1406			0.00179	1
A:C:B:DRB1	0201:0702:3908:0407			0.00179	1
A:C:B:DRB1	0201:0702:5101:0701			0.00179	1
A:C:B:DRB1	0201:0702:5701:0301			0.00179	1
A:C:B:DRB1	0201:0704:1501:0404			0.00179	1
A:C:B:DRB1	0201:0704:4402:1101	0.00549	3		
A:C:B:DRB1	0201:0704:4402:1104			0.00179	1
A:C:B:DRB1	0201:0704:4402:1601			0.00179	1
A:C:B:DRB1	0201:0801:5102:0403			0.00358	2
A:C:B:DRB1	0201:0802:1401:0701	0.00366	2		
A:C:B:DRB1	0201:0802:1402:0102	0.00183	1	0.00538	3
A:C:B:DRB1	0201:0802:1402:1501	0.00183	1		

A:C:B:DRB1	0201:0802:3503:0701	0.00183	1		
A:C:B:DRB1	0201:1202:5201:1502	0.00183	1	0.00179	1
A:C:B:DRB1	0201:1203:3801:0101			0.00179	1
A:C:B:DRB1	0201:1203:3801:1104	0.00183	1		
A:C:B:DRB1	0201:1203:3801:1301	0.00235	1.3		
A:C:B:DRB1	0201:1203:3801:1501			0.00358	2
A:C:B:DRB1	0201:1203:4501:1401			0.00179	1
A:C:B:DRB1	0201:1203:5101:1601	0.00183	1		
A:C:B:DRB1	0201:1203:5801:1601			0.00179	1
A:C:B:DRB1	0201:1212:1804:0302			0.00179	1
A:C:B:DRB1	0201:1402:1516:0302			0.00179	1
A:C:B:DRB1	0201:1402:3512:1302			0.00179	1
A:C:B:DRB1	0201:1402:5101:0701	0.00183	1		
A:C:B:DRB1	0201:1402:5101:1301			0.00358	2
A:C:B:DRB1	0201:1502:1501:0101			0.00179	1
A:C:B:DRB1	0201:1502:4403:0402			0.00179	1
A:C:B:DRB1	0201:1502:5101:0701			0.00179	1
A:C:B:DRB1	0201:1502:5101:1101			0.00179	1
A:C:B:DRB1	0201:1502:5101:1301	0.00183	1		
A:C:B:DRB1	0201:1505:0705:0701			0.00179	1
A:C:B:DRB1	0201:1505:5101:1101	0.00366	2		
A:C:B:DRB1	0201:1509:3517:0404			0.00179	1
A:C:B:DRB1	0201:1601:4403:0701	0.00263	1.4	0.00358	2
A:C:B:DRB1	0201:1601:4501:0701			0.00179	1
A:C:B:DRB1	0201:1602:0702:0301	0.00183	1		
A:C:B:DRB1	0201:1602:4403:1104	0.00183	1		
A:C:B:DRB1	0201:1602:5101:0701			0.00179	1
A:C:B:DRB1	0201:1602:5501:0404	0.00183	1		
A:C:B:DRB1	0201:1701:3501:1104	0.00183	1		
A:C:B:DRB1	0201:1701:4101:0701			0.00179	1
A:C:B:DRB1	0202:0401:3501:1314			0.00179	1
A:C:B:DRB1	0202:1203:3901:0405	0.00183	1		

A:C:B:DRB1	0202:1601:4430:0103			0.00179	1
A:C:B:DRB1	0204:0304:4002:0411			0.00179	1
A:C:B:DRB1	0204:0602:5701:0101			0.00179	1
A:C:B:DRB1	0204:1502:5101:0411			0.00179	1
A:C:B:DRB1	0204:1602:3905:0411			0.00179	1
A:C:B:DRB1	0205:0102:2705:0701	0.00183	1		
A:C:B:DRB1	0205:0210:5001:1302	0.00183	1		
A:C:B:DRB1	0205:0304:4901:0901			0.00179	1
A:C:B:DRB1	0205:0304:5501:0411			0.00179	1
A:C:B:DRB1	0205:0401:0705:0301	0.00183	1		
A:C:B:DRB1	0205:0401:3502:0701	0.00183	1		
A:C:B:DRB1	0205:0602:1302:0701			0.00179	1
A:C:B:DRB1	0205:0602:4402:1101			0.00179	1
A:C:B:DRB1	0205:0602:5001:0701	0.00366	2		
A:C:B:DRB1	0205:0701:4101:0101			0.00179	1
A:C:B:DRB1	0205:0701:4101:1305			0.00179	1
A:C:B:DRB1	0205:0701:4901:0101			0.0018	1
A:C:B:DRB1	0205:0701:5801:0405	0.00183	1		
A:C:B:DRB1	0205:0701:5801:0803	0.00183	1		
A:C:B:DRB1	0205:0701:5801:1301			0.00358	2
A:C:B:DRB1	0205:0704:4402:1101	0.00183	1		
A:C:B:DRB1	0205:1203:3801:0701			0.00179	1
A:C:B:DRB1	0205:1509:5101:0802			0.00179	1
A:C:B:DRB1	0205:1801:8101:1302			0.00179	1
A:C:B:DRB1	0206:0102:1501:0410			0.00179	1
A:C:B:DRB1	0206:0102:1515:0802			0.00179	1
A:C:B:DRB1	0206:0102:3543:0802			0.00179	1
A:C:B:DRB1	0206:0102:3902:0404			0.00179	1
A:C:B:DRB1	0206:0202:3905:0404			0.00179	1
A:C:B:DRB1	0206:0202:4403:0102			0.00179	1
A:C:B:DRB1	0206:0304:3517:0411			0.00179	1
A:C:B:DRB1	0206:0304:4801:0404			0.00179	1



A:C:B:DRB1	0206:0401:3501:0407			0.00179	1
A:C:B:DRB1	0206:0401:3512:1302			0.00179	1
A:C:B:DRB1	0206:0401:3517:0802			0.00358	2
A:C:B:DRB1	0206:0701:0801:0802			0.00179	1
A:C:B:DRB1	0206:0701:4002:1406			0.00179	1
A:C:B:DRB1	0206:0702:3905:0407			0.00179	1
A:C:B:DRB1	0206:0702:3908:0407			0.00538	3
A:C:B:DRB1	0206:0801:4801:0802			0.00179	1
A:C:B:DRB1	0206:1502:5101:0802			0.00179	1
A:C:B:DRB1	0206:1502:5101:1602	0.00183	1		
A:C:B:DRB1	0206:1701:4101:0802			0.00179	1
A:C:B:DRB1	0211:0202:3905:0901			0.00179	1
A:C:B:DRB1	0211:0304:3501:0407			0.00179	1
A:C:B:DRB1	0211:0701:4901:0102			0.00179	1
A:C:B:DRB1	0211:1502:4403:0411			0.00179	1
A:C:B:DRB1	0213:1502:5101:0404			0.00179	1
A:C:B:DRB1	0217:0303:5001:0802			0.00179	1
A:C:B:DRB1	0217:0305:4002:0411			0.00358	2
A:C:B:DRB1	0217:1601:3505:1301			0.00179	1
A:C:B:DRB1	0222:0401:4004:0407			0.00179	1
A:C:B:DRB1	0244:0306:4002:0802	0.00183	1		
A:C:B:DRB1	0301:0102:1401:1503			0.00179	1
A:C:B:DRB1	0301:0102:1501:1501	0.00183	1		
A:C:B:DRB1	0301:0102:3701:0701	0.00183	1		
A:C:B:DRB1	0301:0102:5101:0401			0.00179	1
A:C:B:DRB1	0301:0102:5601:0401			0.00179	1
A:C:B:DRB1	0301:0202:2702:0901			0.00179	1
A:C:B:DRB1	0301:0202:2705:0102			0.00179	1
A:C:B:DRB1	0301:0202:5101:0101	0.00183	1		
A:C:B:DRB1	0301:0210:1503:1304			0.00179	1
A:C:B:DRB1	0301:0210:4701:1301			0.00179	1
A:C:B:DRB1	0301:0302:5801:0301			0.00179	1

A:C:B:DRB1	0301:0303:1501:1301			0.00358	2
A:C:B:DRB1	0301:0303:5501:1401	0.00183	1		
A:C:B:DRB1	0301:0304:1501:0401	0.00183	1		
A:C:B:DRB1	0301:0304:3508:0404	0.00183	1		
A:C:B:DRB1	0301:0304:4001:0301	0.00183	1		
A:C:B:DRB1	0301:0304:4001:1301	0.00366	2		
A:C:B:DRB1	0301:0401:0702:0701	0.00366	2		
A:C:B:DRB1	0301:0401:1801:0407	0.00183	1		
A:C:B:DRB1	0301:0401:3501:0101			0.00799	4.5
A:C:B:DRB1	0301:0401:3501:1001	0.00183	1		
A:C:B:DRB1	0301:0401:3501:1102	0.00183	1		
A:C:B:DRB1	0301:0401:3502:1104	0.00183	1		
A:C:B:DRB1	0301:0401:3503:0901			0.00179	1
A:C:B:DRB1	0301:0401:3503:1501			0.00179	1
A:C:B:DRB1	0301:0401:4001:1101	0.00183	1		
A:C:B:DRB1	0301:0401:4101:1601	0.00183	1		
A:C:B:DRB1	0301:0401:4901:0101	0.00183	1		
A:C:B:DRB1	0301:0401:4901:1101	0.00183	1		
A:C:B:DRB1	0301:0401:5101:1503			0.00179	1
A:C:B:DRB1	0301:0401:5702:0701			0.00179	1
A:C:B:DRB1	0301:0501:0705:0405	0.00183	1		
A:C:B:DRB1	0301:0602:1302:0901	0.00183	1		
A:C:B:DRB1	0301:0602:3701:0404	0.00183	1		
A:C:B:DRB1	0301:0602:4501:1601	0.00183	1		
A:C:B:DRB1	0301:0602:5001:0701			0.00358	2
A:C:B:DRB1	0301:0602:5001:0801	0.00183	1		
A:C:B:DRB1	0301:0602:5001:1601	0.00183	1		
A:C:B:DRB1	0301:0602:5301:1001			0.00179	1
A:C:B:DRB1	0301:0701:0801:1501	0.00183	1		
A:C:B:DRB1	0301:0701:1517:0101			0.00179	1
A:C:B:DRB1	0301:0701:1801:1302	0.00183	1		
A:C:B:DRB1	0301:0701:4901:1101			0.00179	1

A:C:B:DRB1	0301:0702:0702:0101	0.00366	2		
A:C:B:DRB1	0301:0702:0702:0401			0.00179	1
A:C:B:DRB1	0301:0702:0702:0408	0.00183	1		
A:C:B:DRB1	0301:0702:0702:0801	0.00366	2		
A:C:B:DRB1	0301:0702:0702:1101	0.00366	2		
A:C:B:DRB1	0301:0702:0702:1302	0.00183	1		
A:C:B:DRB1	0301:0702:0702:1401	0.00183	1	0.00179	1
A:C:B:DRB1	0301:0702:0702:1501	0.0233	12.7	0.00993	5.5
A:C:B:DRB1	0301:0702:3503:0403			0.00179	1
A:C:B:DRB1	0301:0702:4403:0701	0.00183	1		
A:C:B:DRB1	0301:0704:1501:1104	0.00183	1		
A:C:B:DRB1	0301:0802:1401:1301			0.00179	1
A:C:B:DRB1	0301:0802:1402:0701			0.00179	1
A:C:B:DRB1	0301:0802:1402:1201			0.00179	1
A:C:B:DRB1	0301:0802:1402:1302	0.00183	1		
A:C:B:DRB1	0301:0802:1402:1501			0.00179	1
A:C:B:DRB1	0301:1202:5701:1502			0.00179	1
A:C:B:DRB1	0301:1203:0702:1001	0.00183	1		
A:C:B:DRB1	0301:1203:1801:0404			0.00179	1
A:C:B:DRB1	0301:1203:1801:1407			0.00179	1
A:C:B:DRB1	0301:1203:3503:1502			0.00179	1
A:C:B:DRB1	0301:1203:3801:1101	0.00366	2		
A:C:B:DRB1	0301:1203:3801:1301	0.00497	2.7		
A:C:B:DRB1	0301:1203:3920:0804			0.00179	1
A:C:B:DRB1	0301:1203:4701:0405	0.00183	1		
A:C:B:DRB1	0301:1203:4801:0404			0.00179	1
A:C:B:DRB1	0301:1205:1801:1101			0.00179	1
A:C:B:DRB1	0301:1402:1516:0701			0.00179	1
A:C:B:DRB1	0301:1402:5101:0101	0.00183	1		
A:C:B:DRB1	0301:1601:4403:0701	0.00286	1.6		
A:C:B:DRB1	0301:1601:4404:1101	0.00183	1		
A:C:B:DRB1	0301:1601:5101:1104			0.00179	1

A:C:B:DRB1	0301:1601:7801:1001			0.00179	1
A:C:B:DRB1	0301:1602:4403:0402			0.00179	1
A:C:B:DRB1	0301:1801:5703:1503			0.00179	1
A:C:B:DRB1	0302:0702:0801:0301			0.00179	1
A:C:B:DRB1	1101:0102:1501:1001			0.00179	1
A:C:B:DRB1	1101:0102:2705:0101	0.00549	3	0.00358	2
A:C:B:DRB1	1101:0102:2705:1101	0.00183	1		
A:C:B:DRB1	1101:0102:5601:0101	0.00366	2		
A:C:B:DRB1	1101:0202:0801:1401			0.00179	1
A:C:B:DRB1	1101:0202:3901:0102			0.00179	1
A:C:B:DRB1	1101:0303:5501:0404	0.00183	1		
A:C:B:DRB1	1101:0304:3501:0404			0.00179	1
A:C:B:DRB1	1101:0304:4001:0404			0.00538	3
A:C:B:DRB1	1101:0304:4001:1201	0.00183	1		
A:C:B:DRB1	1101:0401:0702:0401			0.00179	1
A:C:B:DRB1	1101:0401:3501:0101	0.01099	6	0.00896	5
A:C:B:DRB1	1101:0401:3501:0407			0.00179	1
A:C:B:DRB1	1101:0401:3501:0901			0.00179	1
A:C:B:DRB1	1101:0401:4403:1101	0.00183	1		
A:C:B:DRB1	1101:0401:4403:1401	0.00183	1		
A:C:B:DRB1	1101:0501:5101:0301	0.00183	1		
A:C:B:DRB1	1101:0602:1302:0701	0.00152	0.8		
A:C:B:DRB1	1101:0602:3701:1301			0.00179	1
A:C:B:DRB1	1101:0602:5001:0102	0.00183	1		
A:C:B:DRB1	1101:0701:0801:0301	0.00366	2		
A:C:B:DRB1	1101:0701:0801:0404	0.00183	1		
A:C:B:DRB1	1101:0701:4901:0102			0.00358	2
A:C:B:DRB1	1101:0701:4901:1001	0.00183	1		
A:C:B:DRB1	1101:0701:5201:0701			0.00179	1
A:C:B:DRB1	1101:0701:5501:0403	0.00183	1		
A:C:B:DRB1	1101:0702:0702:0103			0.00179	1
A:C:B:DRB1	1101:0702:0702:1501	0.00397	2.2		

A:C:B:DRB1	1101:0702:2705:0101			0.00179	1
A:C:B:DRB1	1101:0702:3501:1401	0.00183	1		
A:C:B:DRB1	1101:0702:3905:1501			0.00179	1
A:C:B:DRB1	1101:0702:4403:0701	0.00183	1		
A:C:B:DRB1	1101:0704:1518:1301			0.00179	1
A:C:B:DRB1	1101:0802:3501:0701			0.00179	1
A:C:B:DRB1	1101:1202:1503:0407			0.00179	1
A:C:B:DRB1	1101:1202:5201:0402	0.00183	1		
A:C:B:DRB1	1101:1202:5201:1302	0.00183	1		
A:C:B:DRB1	1101:1202:5201:1502	0.00183	1		
A:C:B:DRB1	1101:1203:1801:1101			0.00179	1
A:C:B:DRB1	1101:1203:3503:0701	0.00183	1		
A:C:B:DRB1	1101:1402:5101:0701	0.00183	1		
A:C:B:DRB1	1101:1502:1302:0701			0.00179	1
A:C:B:DRB1	1101:1502:5101:1301			0.00179	1
A:C:B:DRB1	1101:1601:3501:1404			0.00179	1
A:C:B:DRB1	1105:0102:5401:1405			0.00179	1
A:C:B:DRB1	2301:0202:0702:0302			0.00179	1
A:C:B:DRB1	2301:0202:4403:0102	0.00183	1		
A:C:B:DRB1	2301:0210:1503:1301			0.00179	1
A:C:B:DRB1	2301:0210:1801:1101			0.00179	1
A:C:B:DRB1	2301:0302:5801:0701			0.00179	1
A:C:B:DRB1	2301:0303:5501:1501	0.00366	2		
A:C:B:DRB1	2301:0304:4001:0404	0.00366	2		
A:C:B:DRB1	2301:0401:0705:1001			0.00179	1
A:C:B:DRB1	2301:0401:3501:0302			0.00179	1
A:C:B:DRB1	2301:0401:3502:1401	0.00183	1		
A:C:B:DRB1	2301:0401:4403:0701	0.00366	2	0.00358	2
A:C:B:DRB1	2301:0401:4403:1103	0.00183	1		
A:C:B:DRB1	2301:0401:4901:1502			0.00179	1
A:C:B:DRB1	2301:0401:5501:1401			0.00179	1
A:C:B:DRB1	2301:0401:5501:1501			0.00179	1

A:C:B:DRB1	2301:0501:4403:1101			0.00179	1
A:C:B:DRB1	2301:0602:4501:1602			0.00179	1
A:C:B:DRB1	2301:0602:5001:0301	0.00183	1	0.00358	2
A:C:B:DRB1	2301:0701:0801:0301			0.00208	1.2
A:C:B:DRB1	2301:0701:4101:1602			0.00179	1
A:C:B:DRB1	2301:0701:4901:1101	0.00549	3		
A:C:B:DRB1	2301:0702:0702:1501			0.00151	0.8
A:C:B:DRB1	2301:0702:0702:1602			0.00179	1
A:C:B:DRB1	2301:0702:2703:1302			0.00179	1
A:C:B:DRB1	2301:0702:3906:0802			0.00179	1
A:C:B:DRB1	2301:0802:1402:0102	0.00366	2		
A:C:B:DRB1	2301:0802:1402:1501	0.00183	1		
A:C:B:DRB1	2301:0802:4403:0405			0.00179	1
A:C:B:DRB1	2301:1203:3901:1101			0.00179	1
A:C:B:DRB1	2301:1406:1515:0411			0.00179	1
A:C:B:DRB1	2301:1601:4403:0701			0.00179	1
A:C:B:DRB1	2301:1602:5101:1302	0.00183	1		
A:C:B:DRB1	2305:0702:0702:1503			0.00179	1
A:C:B:DRB1	2402:0102:1501:0802			0.00179	1
A:C:B:DRB1	2402:0102:2705:0404			0.00358	2
A:C:B:DRB1	2402:0102:3543:0407			0.00179	1
A:C:B:DRB1	2402:0202:0702:1301	0.00183	1		
A:C:B:DRB1	2402:0202:2705:0101	0.00183	1	0.00179	1
A:C:B:DRB1	2402:0202:3512:0402			0.00179	1
A:C:B:DRB1	2402:0202:4403:0102			0.00179	1
A:C:B:DRB1	2402:0202:4403:1302	0.00183	1		
A:C:B:DRB1	2402:0202:5201:0411			0.00179	1
A:C:B:DRB1	2402:0210:1503:1101			0.00179	1
A:C:B:DRB1	2402:0302:5801:1302			0.00179	1
A:C:B:DRB1	2402:0303:1501:1601	0.00183	1		
A:C:B:DRB1	2402:0303:5101:0701			0.00179	1
A:C:B:DRB1	2402:0303:5301:1401			0.00179	1

A:C:B:DRB1	2402:0304:1501:1602			0.00179	1
A:C:B:DRB1	2402:0304:3501:0102			0.00179	1
A:C:B:DRB1	2402:0304:4001:0101	0.00183	1		
A:C:B:DRB1	2402:0304:4001:1302	0.00549	3		
A:C:B:DRB1	2402:0305:4002:0404			0.00179	1
A:C:B:DRB1	2402:0306:4002:0407			0.00179	1
A:C:B:DRB1	2402:0401:1801:1404	0.00183	1		
A:C:B:DRB1	2402:0401:2705:0407			0.00179	1
A:C:B:DRB1	2402:0401:3501:0301			0.00179	1
A:C:B:DRB1	2402:0401:3501:0407	0.00183	1		
A:C:B:DRB1	2402:0401:3501:0801	0.00366	2		
A:C:B:DRB1	2402:0401:3501:1101	0.00183	1		
A:C:B:DRB1	2402:0401:3501:1104	0.00366	2		
A:C:B:DRB1	2402:0401:3502:0401	0.00183	1		
A:C:B:DRB1	2402:0401:3502:1101	0.00183	1		
A:C:B:DRB1	2402:0401:3502:1104			0.00717	4
A:C:B:DRB1	2402:0401:3502:1202	0.00183	1		
A:C:B:DRB1	2402:0401:3503:0701			0.00358	2
A:C:B:DRB1	2402:0401:3512:0411			0.00179	1
A:C:B:DRB1	2402:0401:3512:0802			0.00358	2
A:C:B:DRB1	2402:0401:3906:0801	0.00183	1		
A:C:B:DRB1	2402:0401:5101:0407			0.00358	2
A:C:B:DRB1	2402:0501:0702:1501	0.00183	1		
A:C:B:DRB1	2402:0501:4402:0101	0.00183	1		
A:C:B:DRB1	2402:0501:4402:1301	0.00183	1		
A:C:B:DRB1	2402:0602:1302:1101			0.00179	1
A:C:B:DRB1	2402:0602:4701:1101			0.00179	1
A:C:B:DRB1	2402:0602:5002:0406	0.00183	1		
A:C:B:DRB1	2402:0602:5701:1001	0.00183	1		
A:C:B:DRB1	2402:0701:0801:0301			0.00179	1
A:C:B:DRB1	2402:0701:1801:1301	0.00183	1		
A:C:B:DRB1	2402:0701:1801:1601			0.00179	1

A:C:B:DRB1	2402:0701:3505:0802			0.00179	1
A:C:B:DRB1	2402:0701:4405:1104	0.00183	1		
A:C:B:DRB1	2402:0701:5001:1401	0.00183	1		
A:C:B:DRB1	2402:0701:5703:1303			0.00179	1
A:C:B:DRB1	2402:0702:0702:0701	0.00183	1		
A:C:B:DRB1	2402:0702:1515:0407			0.00179	1
A:C:B:DRB1	2402:0702:2702:1104			0.00179	1
A:C:B:DRB1	2402:0702:3501:0101	0.00366	2		
A:C:B:DRB1	2402:0702:3906:1406			0.00538	3
A:C:B:DRB1	2402:0702:3906:1502			0.00179	1
A:C:B:DRB1	2402:0702:3911:0407			0.00179	1
A:C:B:DRB1	2402:0702:4402:1301			0.00179	1
A:C:B:DRB1	2402:0702:5501:1401	0.00183	1		
A:C:B:DRB1	2402:0704:1518:0402			0.00179	1
A:C:B:DRB1	2402:0801:4801:0404			0.00358	2
A:C:B:DRB1	2402:0801:4801:1402			0.00179	1
A:C:B:DRB1	2402:0802:1402:0102	0.00183	1		
A:C:B:DRB1	2402:0802:1801:1201	0.00183	1		
A:C:B:DRB1	2402:1203:1402:1303	0.00183	1		
A:C:B:DRB1	2402:1203:1801:1104	0.00366	2		
A:C:B:DRB1	2402:1203:1801:1302	0.00183	1		
A:C:B:DRB1	2402:1203:3503:0401	0.00183	1		
A:C:B:DRB1	2402:1203:3503:0701			0.00358	2
A:C:B:DRB1	2402:1203:3801:1104	0.00183	1		
A:C:B:DRB1	2402:1203:3901:0802			0.00179	1
A:C:B:DRB1	2402:1402:1516:0302			0.00179	1
A:C:B:DRB1	2402:1402:5101:0301	0.00183	1		
A:C:B:DRB1	2402:1402:5101:0408	0.00183	1		
A:C:B:DRB1	2402:1502:3901:1601	0.00183	1		
A:C:B:DRB1	2402:1502:5101:0404	0.00183	1		
A:C:B:DRB1	2402:1502:5201:1602			0.00179	1
A:C:B:DRB1	2402:1505:5101:1501	0.00183	1		



A:C:B:DRB1	2402:1509:3501:0407			0.00179	1
A:C:B:DRB1	2402:1602:5101:0701			0.00179	1
A:C:B:DRB1	2402:1604:4402:0402	0.00183	1		
A:C:B:DRB1	2402:1701:4101:1302	0.00183	1		
A:C:B:DRB1	2402:1801:4901:0405			0.00179	1
A:C:B:DRB1	2402:1801:5703:1301			0.00179	1
A:C:B:DRB1	2403:0303:1501:1601	0.00183	1		
A:C:B:DRB1	2403:0401:3501:1301			0.00179	1
A:C:B:DRB1	2403:1601:1801:1302			0.00179	1
A:C:B:DRB1	2425:0801:3801:0701			0.00179	1
A:C:B:DRB1	2501:0303:5501:0301	0.00183	1		
A:C:B:DRB1	2501:0304:4001:0701	0.00183	1		
A:C:B:DRB1	2501:0401:3501:1401	0.00183	1		
A:C:B:DRB1	2501:0401:3502:1501	0.00183	1		
A:C:B:DRB1	2501:0401:3503:1303			0.00179	1
A:C:B:DRB1	2501:0501:5601:1301			0.00179	1
A:C:B:DRB1	2501:0602:1503:0401	0.00183	1		
A:C:B:DRB1	2501:0602:5701:1601	0.00183	1	0.00179	1
A:C:B:DRB1	2501:0701:1801:0901	0.00183	1		
A:C:B:DRB1	2501:1203:1801:1101	0.00366	2		
A:C:B:DRB1	2501:1203:1801:1302	0.00183	1		
A:C:B:DRB1	2501:1203:1801:1501			0.00717	4
A:C:B:DRB1	2501:1203:3901:1601	0.00183	1		
A:C:B:DRB1	2501:1402:1501:1001			0.00179	1
A:C:B:DRB1	2501:1502:5101:0404	0.00183	1		
A:C:B:DRB1	2601:0102:2705:0101			0.00179	1
A:C:B:DRB1	2601:0202:2702:1101	0.00183	1		
A:C:B:DRB1	2601:0202:3501:0101	0.00183	1		
A:C:B:DRB1	2601:0303:3501:1103			0.00179	1
A:C:B:DRB1	2601:0304:0801:0810	0.00183	1		
A:C:B:DRB1	2601:0304:4004:0410			0.00179	1
A:C:B:DRB1	2601:0304:8101:0101			0.00179	1

A:C:B:DRB1	2601:0401:0702:1104	0.00183	1		
A:C:B:DRB1	2601:0401:3508:1101	0.00183	1		
A:C:B:DRB1	2601:0401:5101:1602	0.00183	1		
A:C:B:DRB1	2601:0501:4402:1502			0.00179	1
A:C:B:DRB1	2601:0602:3701:1001			0.00717	4
A:C:B:DRB1	2601:0602:5501:0407	0.00183	1		
A:C:B:DRB1	2601:0602:5701:0701	0.00183	1		
A:C:B:DRB1	2601:0701:0801:0404	0.00183	1		
A:C:B:DRB1	2601:0701:1801:0301			0.00179	1
A:C:B:DRB1	2601:0701:4901:0407	0.00183	1		
A:C:B:DRB1	2601:0702:4429:1501	0.00183	1		
A:C:B:DRB1	2601:0802:3801:1001	0.00183	1		
A:C:B:DRB1	2601:1203:1503:1301			0.00179	1
A:C:B:DRB1	2601:1203:1801:1104			0.00179	1
A:C:B:DRB1	2601:1203:3501:1602			0.00179	1
A:C:B:DRB1	2601:1203:3801:0402	0.00366	2		
A:C:B:DRB1	2601:1203:3801:1103			0.00179	1
A:C:B:DRB1	2601:1203:3901:0403	0.00183	1		
A:C:B:DRB1	2601:1203:3901:0701	0.00183	1		
A:C:B:DRB1	2601:1403:4403:0405	0.00183	1		
A:C:B:DRB1	2601:1502:4901:1302			0.00179	1
A:C:B:DRB1	2901:0501:4402:0701	0.00183	1		
A:C:B:DRB1	2901:1202:5201:1302	0.00183	1		
A:C:B:DRB1	2901:1502:0705:1001	0.00183	1		
A:C:B:DRB1	2901:1502:5101:0301	0.00183	1		
A:C:B:DRB1	2901:1505:0705:0701	0.00183	1		
A:C:B:DRB1	2902:0102:5601:0101			0.00179	1
A:C:B:DRB1	2902:0202:0702:0101	0.00183	1		
A:C:B:DRB1	2902:0202:4403:0701			0.00179	1
A:C:B:DRB1	2902:0210:1503:0701			0.00179	1
A:C:B:DRB1	2902:0303:1501:1301	0.00183	1		
A:C:B:DRB1	2902:0303:1801:1101	0.00183	1		

A:C:B:DRB1	2902:0304:0702:1401	0.00183	1		
A:C:B:DRB1	2902:0401:1302:0404			0.00179	1
A:C:B:DRB1	2902:0401:3501:0401	0.00183	1		
A:C:B:DRB1	2902:0401:3501:1301			0.00179	1
A:C:B:DRB1	2902:0401:3501:1302	0.00183	1		
A:C:B:DRB1	2902:0401:4403:1501			0.00358	2
A:C:B:DRB1	2902:0501:4402:0301			0.00179	1
A:C:B:DRB1	2902:0602:5101:0101			0.00179	1
A:C:B:DRB1	2902:0701:0801:1302			0.00179	1
A:C:B:DRB1	2902:0702:0702:0404	0.00183	1		
A:C:B:DRB1	2902:0702:0702:0701			0.00179	1
A:C:B:DRB1	2902:0802:1401:0405	0.00183	1		
A:C:B:DRB1	2902:1502:5101:1101	0.00183	1		
A:C:B:DRB1	2902:1601:4403:0102			0.00179	1
A:C:B:DRB1	2902:1601:4403:0701	0.01465	8	0.0233	13
A:C:B:DRB1	2902:1601:4403:1103			0.00179	1
A:C:B:DRB1	2902:1601:5002:1401			0.00179	1
A:C:B:DRB1	2902:1601:5301:1301			0.00179	1
A:C:B:DRB1	2902:1801:5301:0301			0.00179	1
A:C:B:DRB1	3001:0102:5501:1301	0.00183	1		
A:C:B:DRB1	3001:0202:5001:0301			0.00179	1
A:C:B:DRB1	3001:0304:4403:1501			0.00179	1
A:C:B:DRB1	3001:0304:5801:0801			0.00179	1
A:C:B:DRB1	3001:0401:4403:1101	0.00366	2		
A:C:B:DRB1	3001:0501:4402:0402			0.00179	1
A:C:B:DRB1	3001:0602:1302:0701	0.01099	6		
A:C:B:DRB1	3001:0602:1302:1302	0.00183	1		
A:C:B:DRB1	3001:0602:1801:0102	0.00183	1		
A:C:B:DRB1	3001:0602:3701:1502	0.00183	1		
A:C:B:DRB1	3001:0602:4001:1104	0.00183	1		
A:C:B:DRB1	3001:0602:4002:0102			0.00179	1
A:C:B:DRB1	3001:0602:5001:1501			0.00179	1

A:C:B:DRB1	3001:0701:1801:1301			0.00179	1
A:C:B:DRB1	3001:0701:4403:1401			0.00179	1
A:C:B:DRB1	3001:0701:4901:1101	0.00183	1		
A:C:B:DRB1	3001:0701:8101:1201			0.00179	1
A:C:B:DRB1	3001:0702:0702:0401	0.00183	1		
A:C:B:DRB1	3001:1202:4201:0301			0.00179	1
A:C:B:DRB1	3001:1203:3801:1302			0.00179	1
A:C:B:DRB1	3001:1402:1516:1102			0.00179	1
A:C:B:DRB1	3001:1502:4002:0801	0.00183	1		
A:C:B:DRB1	3002:0102:1501:0407			0.00179	1
A:C:B:DRB1	3002:0102:1801:1301			0.00179	1
A:C:B:DRB1	3002:0302:5801:0102	0.00366	2		
A:C:B:DRB1	3002:0401:3501:1104			0.00179	1
A:C:B:DRB1	3002:0401:3501:1501			0.00179	1
A:C:B:DRB1	3002:0401:5301:1303			0.00179	1
A:C:B:DRB1	3002:0401:7801:0302			0.00179	1
A:C:B:DRB1	3002:0501:1801:0301	0.00549	3	0.00717	4
A:C:B:DRB1	3002:0501:1801:0401	0.00183	1		
A:C:B:DRB1	3002:0701:0801:0301			0.00538	3
A:C:B:DRB1	3002:0701:0801:0701	0.00183	1		
A:C:B:DRB1	3002:0701:1801:1503	0.00183	1		
A:C:B:DRB1	3002:0702:0702:0901			0.00179	1
A:C:B:DRB1	3002:0802:1401:0701	0.00183	1		
A:C:B:DRB1	3002:0802:1402:1503			0.00179	1
A:C:B:DRB1	3002:1601:4501:1302			0.00179	1
A:C:B:DRB1	3002:1701:4201:1104			0.00179	1
A:C:B:DRB1	3004:0701:0801:0301			0.00179	1
A:C:B:DRB1	3004:0701:4403:0701			0.00358	2
A:C:B:DRB1	3004:1701:4101:1302	0.00183	1		
A:C:B:DRB1	3101:0102:2705:0101	0.00183	1		
A:C:B:DRB1	3101:0102:4402:0901			0.00179	1
A:C:B:DRB1	3101:0202:2705:0301	0.00183	1		

A:C:B:DRB1	3101:0202:4002:1101	0.00183	1		
A:C:B:DRB1	3101:0202:4403:0102			0.00179	1
A:C:B:DRB1	3101:0303:1516:0701			0.00179	1
A:C:B:DRB1	3101:0304:4001:0404	0.00916	5		
A:C:B:DRB1	3101:0304:4002:0407			0.00179	1
A:C:B:DRB1	3101:0304:4002:1402			0.00179	1
A:C:B:DRB1	3101:0304:5101:0404			0.00179	1
A:C:B:DRB1	3101:0401:3501:1401	0.00183	1		
A:C:B:DRB1	3101:0401:3501:1402			0.00358	2
A:C:B:DRB1	3101:0401:3504:0807			0.00179	1
A:C:B:DRB1	3101:0401:3508:1104	0.00183	1		
A:C:B:DRB1	3101:0401:3512:0407			0.00179	1
A:C:B:DRB1	3101:0501:1507:1406			0.00179	1
A:C:B:DRB1	3101:0501:5001:0701			0.00179	1
A:C:B:DRB1	3101:0501:5101:1302			0.00179	1
A:C:B:DRB1	3101:0602:1302:0701			0.00179	1
A:C:B:DRB1	3101:0701:0801:0401	0.00183	1		
A:C:B:DRB1	3101:0701:5801:0804	0.00183	1		
A:C:B:DRB1	3101:0702:0702:1101	0.00183	1		
A:C:B:DRB1	3101:0702:2705:0802			0.00179	1
A:C:B:DRB1	3101:0702:3903:1402			0.00358	2
A:C:B:DRB1	3101:0702:4001:0301	0.00183	1		
A:C:B:DRB1	3101:0704:5101:0101			0.00179	1
A:C:B:DRB1	3101:1203:3508:1502	0.00183	1		
A:C:B:DRB1	3101:1502:5101:0101	0.00183	1		
A:C:B:DRB1	3101:1502:5102:0410	0.00183	1		
A:C:B:DRB1	3101:1502:5501:0801			0.00179	1
A:C:B:DRB1	3102:1502:5101:0802			0.00179	1
A:C:B:DRB1	3201:0102:2705:1201	0.00183	1		
A:C:B:DRB1	3201:0202:4002:1101			0.00358	2
A:C:B:DRB1	3201:0303:1517:1302	0.00183	1		
A:C:B:DRB1	3201:0304:1402:0401	0.00183	1		

A:C:B:DRB1	3201:0304:1501:0401	0.00183	1		
A:C:B:DRB1	3201:0304:5101:1101	0.00183	1		
A:C:B:DRB1	3201:0304:5801:1303			0.00179	1
A:C:B:DRB1	3201:0401:3501:0405			0.00179	1
A:C:B:DRB1	3201:0401:3501:1104	0.00183	1		
A:C:B:DRB1	3201:0401:3501:1302	0.00183	1		
A:C:B:DRB1	3201:0401:4403:0101			0.00179	1
A:C:B:DRB1	3201:0401:5301:1503			0.00179	1
A:C:B:DRB1	3201:0501:1801:1101	0.00183	1		
A:C:B:DRB1	3201:0501:4402:0801	0.00183	1		
A:C:B:DRB1	3201:0501:4402:1101	0.00183	1		
A:C:B:DRB1	3201:0701:0801:0301			0.00179	1
A:C:B:DRB1	3201:0701:1801:1501	0.00183	1		
A:C:B:DRB1	3201:0701:4901:0101	0.00183	1		
A:C:B:DRB1	3201:0701:5801:1101	0.00183	1		
A:C:B:DRB1	3201:0702:0702:0901	0.00183	1		
A:C:B:DRB1	3201:0702:0702:1104	0.00183	1		
A:C:B:DRB1	3201:1402:1516:1201	0.00183	1		
A:C:B:DRB1	3201:1602:1402:0301	0.00183	1		
A:C:B:DRB1	3201:1701:4101:1301	0.00183	1		
A:C:B:DRB1	3201:1701:4901:0404			0.00179	1
A:C:B:DRB1	3301:0202:4403:0403			0.00179	1
A:C:B:DRB1	3301:0401:1402:0405			0.00179	1
A:C:B:DRB1	3301:0401:5301:1301			0.00179	1
A:C:B:DRB1	3301:0602:5802:0102			0.00179	1
A:C:B:DRB1	3301:0702:0702:0101			0.00179	1
A:C:B:DRB1	3301:0702:3905:0411			0.00179	1
A:C:B:DRB1	3301:0702:4201:0302	0.00183	1		
A:C:B:DRB1	3301:0802:1402:0102	0.01099	6	0.00896	5
A:C:B:DRB1	3301:0802:1402:1101	0.00366	2		
A:C:B:DRB1	3301:0802:1402:1501			0.00179	1
A:C:B:DRB1	3301:0802:4001:1301	0.00183	1		

A:C:B:DRB1	3301:0802:5108:0402	0.00183	1		
A:C:B:DRB1	3301:1203:1402:1601	0.00183	1		
A:C:B:DRB1	3301:1601:4403:0701			0.00179	1
A:C:B:DRB1	3301:1601:7801:1301			0.00179	1
A:C:B:DRB1	3303:0302:5801:1301			0.00179	1
A:C:B:DRB1	3303:0401:5301:1401			0.00179	1
A:C:B:DRB1	3303:0702:5101:1301	0.00183	1		
A:C:B:DRB1	3303:0802:8101:1101			0.00179	1
A:C:B:DRB1	3303:1203:1801:1104			0.00179	1
A:C:B:DRB1	3303:1203:3906:1601	0.00183	1		
A:C:B:DRB1	3305:0802:1402:0102	0.00183	1		
A:C:B:DRB1	3402:0401:5101:1503			0.00358	2
A:C:B:DRB1	3601:0401:8101:1303			0.00179	1
A:C:B:DRB1	3601:1801:5703:1602			0.00179	1
A:C:B:DRB1	6601:0701:1517:0804	0.00183	1		
A:C:B:DRB1	6601:1402:5101:1301	0.00183	1		
A:C:B:DRB1	6601:1701:4102:1303	0.00916	5		
A:C:B:DRB1	6602:0701:5801:1503			0.00179	1
A:C:B:DRB1	6801:0102:1515:0802			0.00179	1
A:C:B:DRB1	6801:0202:5101:0701			0.00179	1
A:C:B:DRB1	6801:0304:4001:1302			0.00358	2
A:C:B:DRB1	6801:0304:4002:1501			0.00179	1
A:C:B:DRB1	6801:0304:4005:0411			0.00179	1
A:C:B:DRB1	6801:0304:4801:0802			0.00179	1
A:C:B:DRB1	6801:0304:4901:1102			0.00179	1
A:C:B:DRB1	6801:0304:5201:0802			0.00179	1
A:C:B:DRB1	6801:0401:1501:0407			0.00179	1
A:C:B:DRB1	6801:0401:3501:0103	0.00183	1		
A:C:B:DRB1	6801:0401:3503:0103			0.00179	1
A:C:B:DRB1	6801:0401:3512:1001			0.00179	1
A:C:B:DRB1	6801:0501:4402:1101			0.00179	1
A:C:B:DRB1	6801:0501:5101:0701	0.00183	1		

A:C:B:DRB1	6801:0602:4701:1302	0.00183	1		
A:C:B:DRB1	6801:0602:5201:0802			0.00179	1
A:C:B:DRB1	6801:0602:5301:0801			0.00179	1
A:C:B:DRB1	6801:0701:4004:0404			0.00179	1
A:C:B:DRB1	6801:0702:0702:1501	0.00183	1		
A:C:B:DRB1	6801:0704:1518:1301			0.00179	1
A:C:B:DRB1	6801:0704:4402:0101	0.00183	1		
A:C:B:DRB1	6801:0801:5101:0901			0.00179	1
A:C:B:DRB1	6801:1203:3503:0401	0.00183	1		
A:C:B:DRB1	6801:1203:3801:1301	0.00183	1		
A:C:B:DRB1	6801:1402:5001:0701			0.00179	1
A:C:B:DRB1	6801:1402:5101:0402	0.00183	1		
A:C:B:DRB1	6801:1402:5101:0404			0.00179	1
A:C:B:DRB1	6801:1502:4001:1301	0.00183	1		
A:C:B:DRB1	6801:1502:4402:1101			0.00179	1
A:C:B:DRB1	6801:1502:5201:0407			0.00179	1
A:C:B:DRB1	6802:0401:3502:1104	0.00183	1		
A:C:B:DRB1	6802:0401:3502:1302	0.00183	1		
A:C:B:DRB1	6802:0401:5301:0102			0.00179	1
A:C:B:DRB1	6802:0602:1503:1302			0.00179	1
A:C:B:DRB1	6802:0602:5001:1001			0.00179	1
A:C:B:DRB1	6802:0701:1402:1104	0.00183	1		
A:C:B:DRB1	6802:0802:1401:0901			0.00179	1
A:C:B:DRB1	6802:1502:5101:0408	0.00183	1		
A:C:B:DRB1	6802:1505:5301:0301			0.00179	1
A:C:B:DRB1	6802:1801:0801:1304			0.00179	1
A:C:B:DRB1	6802:1801:1402:1302			0.00179	1
A:C:B:DRB1	6803:0305:4002:1401			0.00179	1
A:C:B:DRB1	6803:0702:3905:0407			0.00896	5
A:C:B:DRB1	6805:0702:3911:0407			0.00179	1
A:C:B:DRB1	6901:0602:1302:0701	0.00183	1		
A:C:B:DRB1	6901:0602:4901:1101			0.00179	1



A:C:B:DRB1	6901:1202:5201:0701	0.00183	1		
A:C:B:DRB1	7401:0202:2705:1101			0.00179	1
A:C:B:DRB1	7401:0304:0801:0804			0.00179	1
A:C:B:DRB1	7401:0602:5001:1102			0.00179	1
A:C:B:DRB1	7401:0801:4002:1602			0.00179	1
A:C:B:DRB1	7401:1602:5108:0301			0.00179	1
A:C:B:DRB1	8001:0401:4403:1501			0.00179	1
A:C:B:DRB1	8001:0701:0801:1301			0.00358	2
A:C:B:DRB1	8001:0701:4402:0804	0.00183	1		