

**Table S2: GenBank Accession Numbers for the *spn* and *ifs* Gene Sequences Examined in this Study**

<i>Streptococcus pyogenes</i> Strain Name	<i>S. pyogenes</i> NAD <sup>+</sup> - glycohydrolase ( <i>spn</i> )	Immunity Factor for SPN ( <i>ifs</i> )
MGAS2140	HM214223	HM214388
SS1433	HM214224	HM214333
5282-00	HM214225	HM214334
SS1378	HM214226	HM214389
3850-01	HM214227	HM214335
6949-99	HM214228	HM214336
2911-97	HM214229	HM214337
SS725	HM214230	HM214338
Alab49	HM214231	HM214339
29454	HM214232	HM214390
A946	HM214233	HM214340
AA476	HM214234	HM214387
SS1468	HM214235	HM214392
MGAS2017	HM214236	HM214393
SS1676	HM214237	HM214341
2RSC3	HM214238	HM214342
4426-S	HM214239	HM214394
29740	HM214240	HM214395
1RP278	HM214241	HM214396
86-809	HM214242	HM214397
AA348	HM214243	HM214398
10RS101	HM214244	HM214343
3360-01	HM214245	HM214399
SS1402	HM214246	HM214400
29486	HM214247	HM214401
D316	HM214248	HM214402
6735-99	HM214249	HM214403
SS1541	HM214250	HM214404
29655	HM214251	HM214405
SS1447	HM214252	HM214406
AA188	HM214253	HM214407
SS1443	HM214254	HM214344
25RS84	HM214255	HM214345
4756-01	HM214256	HM214408
1GL217	HM214257	HM214346
AA401	HM214258	HM214347
SS1373	HM214259	HM214348
SS1536	HM214260	HM214409
29689	HM214261	HM214410
MGAS261	HM214262	HM214411

SS1681	HM214263	HM214349
10RS57	HM214264	HM214412
D821	HM214265	HM214350
SS1485	HM214266	HM214413
MGAS2111	HM214267	HM214351
SS1469	HM214268	HM214352
SS1551	HM214269	HM214414
C142	HM214270	HM214353
SS1470	HM214271	HM214415
D997	HM214272	HM214354
SS1363	HM214273	HM214416
1165-99	HM214274	HM214355
A457	HM214275	HM214356
SS1098	HM214276	HM214357
ACTH81	HM214277	HM214417
4500-S	HM214278	HM214418
D432	HM214279	HM214358
CT95-169	HM214280	HM214419
SS1096	HM214281	HM214420
1RS79	HM214282	HM214421
D502	HM214283	HM214359
SS1497	HM214284	HM214360
Alab53	HM214285	HM214422
CT95-122	HM214286	HM214361
SS1416	HM214287	HM214423
D691	HM214288	HM214424
AA249	HM214289	HM214362
SS1371	HM214290	HM214425
3RP70	HM214291	HM214363
SS1434	HM214292	HM214364
SS795	HM214293	HM214365
SS53	HM214294	HM214366
CT95-121	HM214295	HM214367
SS951	HM214296	HM214426
1RP18RN	HM214297	HM214427
SS1472	HM214298	HM214368
4770-01	HM214299	HM214369
D633	HM214300	HM214428
SS1550	HM214301	HM214429
AA472	HM214302	HM214370
SS636	HM214303	HM214430
AA216	HM214304	HM214371
SS582	HM214305	HM214431
D306	HM214306	HM214372
1269-98	HM214307	HM214373

SS1376	HM214308	HM214432
NS292	HM214309	HM214433
11RS100	HM214310	HM214374
CT95-189	HM214311	HM214434
5552-S	HM214312	HM214435
MGAS308	HM214313	HM214375
TW128	HM214314	HM214436
SS1151	HM214315	HM214437
AA416	HM214316	HM214376
2907-97	HM214317	HM214377
MGAS2109	HM214318	HM214378
SS1377	HM214319	HM214438
CS110	HM214320	HM214439
3018-01	HM214321	HM214440
SS737	HM214322	HM214441
D488	HM214323	HM214379
MGAS341	HM214324	HM214380
D795	HM214325	HM214381
6250-S	HM214326	HM214442
A956	HM214327	HM214391
SS1369	HM214328	HM214382
MGAS2110	HM214329	HM214383
SS116	HM214330	HM214384
22RS72	HM214331	HM214385
SS580	HM214332	HM214386
MGAS5005 <sup>a</sup>	NC_007297 REGION: 150154..151518	NC_007297 REGION: 151523..152008
MGAS2096 <sup>b</sup>	NC_008023 REGION: 155389..156753	NC_008023 REGION: 156758..157243
MGAS6180 <sup>c</sup>	NC_007296 REGION: 154914..156278	NC_007296 REGION: 156283..156768

<sup>a</sup> The *spn* and *ifs* sequences from MGAS5005 were identical to those found in the previously published whole *S. pyogenes* genome sequence (53). The accession numbers for appropriate regions within the previously available genome sequences are included.

<sup>b</sup> The *spn* and *ifs* sequences from MGAS2096 were identical to those found in the previously published whole *S. pyogenes* genome sequence (3). The accession numbers for appropriate regions within the previously available genome sequences are included.

<sup>c</sup> The *spn* and *ifs* sequences from MGAS6180 were identical to those found in the previously published whole *S. pyogenes* genome sequence (21). The accession numbers for appropriate regions within the previously available genome sequences are included.