Table S1. Protein identities of the five immunogenic antigens in representative serotypes of disease-associated *S. suis* strains with complete genomes in GenBank[a]

Disease-associated *S. suis* serotypes					Five immunogenic antigens				
Strain	Serotype	Source	Country	Host	SSU0185	SSU1215	SSU1355	SSU1773	SSU1915
SS12	1/2	Respiratory	China	pig	100%	100%	100%	100%	100%
ST1	1	unknown	China	pig	99%	98%	98%	97%	100%
S735	2	Respiratory	Netherlands	Pig	99%	100%	100%	99%	100%
P1/7	2	Systemic (Brain)	UK	pig	100%	100%	100%	100%	100%
A7	2	Systemic (Brain)	China	pig	100%	100%	100%	100%	100%
89/1591[b]	2	Systemic (other)	Canada	pig	98%	99%	99%	98%	100%
BM407	2	Systemic (Brain)	Vietnam	Human	100%	100%	100%	100%	100%
SC84	2	Systemic (Brain)	China	Human	100%	100%	100%	100%	100%
98HAH33	2	Systemic (Brain)	China	Human	100%	100%	100%	99%	100%
05ZYH33	2	Systemic (Brain)	China	Human	95%	98%	98%	99%	100%
GZ1	2	Systemic (other)	China	Human	97%	100%	100%	100%	100%
ST3	3	Respiratory	China	pig	98%	99%	99%	98%	100%
6407	4	Systemic (other)	Denmark	pig	99%	99%	99%	98%	100%
D9	7	Systemic (other)	China	pig	98%	99%	99%	97%	100%
D12	9	Respiratory	China	pig	96%	91%	91%	97%	97%
JS14	14	Systemic (other)	China	pig	100%	99%	99%	100%	100%

[a] *S. suis* strains for which a complete genome sequence is available in GenBank (15 isolates) and

[b]Strain 89-1591 a North American isolate 89/159 for which a draft genome is available in

GenBank are used in this analysis. These strains represent disease-associated *S. suis* serotypes isolated from various origins around the world. The protein identities of the five immunogenic polypeptides were identified in these strains by taking the protein sequences of P1/7 and using BlastP against the 16 genomes.