

## Supplementary Material 1

SRP protein	Features	Positions
SRP19	Y/W	29
	GR	42-43
	Loop 1	29-55
	Loop 2	67-69
	<i>Thermococcales</i> insert L3	82-86
SRP54	I-box	148-147
	<i>Sulfolobales</i> insert GY	208-210
	RXLGXGD	308-314
	<i>Thermococcales</i> insert LEKEV	325-329
	<i>Halobacteriales</i> insert GLMD	381-384
	Fingerloop	375-395
	<i>Methanococcales</i> insert GG	466-467
FtsY	DV	318-319
	P	355
	GKTT	397-401
	I-box	423-432
	GR	477-478
	GG	540-541
	<i>Nitrosopumilus maritimus</i> repeats EPTP	592-642
	Uncultured marine crenarchaeota repeats EPVP	645-684

Table. Features extracted from the alignment of archaea SRP proteins. The same features are shown in Figure 3. The column positions in the respective alignments of SRP19, SRP54 and FtsY are given in the right column.