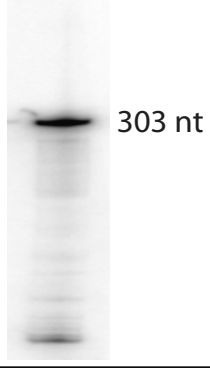


a.



b.

```

                                     H2             H3             H4
[<<<] [<<<<<-<-<-<-<-<-<->>>>] [----->>>>]
Py SRP   1 ATCCGGCTG-TATGCTCCTCGGG---TATGCAGCTGTAAACGTAAGGGGAAAGCAAAGC
Pb SRP   1 ATCCGGCTG-TATGCTCCTCGGG---TATGCAGCTGTAAACGTAAGGGGAAAGCAAAGT
Pc SRP   1 AACCGGCTG-TATGCTCCTCGGG---TATGCAGCTGTAAACGTAAGGGGAAAGCAAAGT
Pv SRP   1 GTCTGGCTG-TATGC-CCTCGGG---TATGCAGCTGTAACTTTAGAGACACCGCAAATT
Pk SRP   1 GTCTGGATG-CATGC-TTTCGGG---TATGCAGCTGTAACT-TATGAGACCGCAAATT
Pf SRP   1 GTCCGGTACTGTTCTTTTAAAGT---TCAGTAGCTGTACATTCTTGGGACTGCA--TT
Pr SRP   1 GTCCGGTACTGTTCTTTTAAAGT---TCAGTAGCTGTACATTCTTGGGACTGCA--TT
Pg SRP   1 GTCCGGCTA-TGTCC-GTGCAAGTGCAGATTTAGCTGTAACTTTCGAGGGGCAGCA--CT
+
                                     H2             H5
----->>>>] [>>] [<<<<<-<-<-<-<-<-<->>>>]
Py SRP   57 AATTTCGCGCAGCCTTTAAGGGATGTTATCCATGTTAC-GAGAA-ATTC-AAATATAAAGA
Pb SRP   57 AATTTCGCGCAGCCTTTAAGGGATGTTACTCATGCCA-C-GAGAA-ATTC-AAATATAAAGA
Pc SRP   57 AATTTCGCGCAGCCTTTAAGGGATGCTACATATGTCGC-GGGAA-ATTC-AAATATAAAGA
Pv SRP   55 CTTTTCGCAAAG--ATCATGGGATGCTACA-ATGT-GGAGAGGATA TTC-AAAGCCTAAAG
Pk SRP   54 TATTTCGAAAA--ATCATGGGATGCTACA-ATGT-GGAGAGGATA TTCGAAAGGCTAAACG
Pf SRP   56 TCGATGCAAAA--GGAATGGGATGCTATA-ATATTTCTGAGAATTTTC-AAATATCTTAAA
Pr SRP   56 TCGATGCGAAC--GAATGGGATGCTATA-ATATTTCTGAGAATTTTC-AAATATCTTAAA
Pg SRP   57 CTGTGTCAGAT--AAATGGGATACTATT-AGTTTATGAGAA-TTTC-AAATATTAATA

                                     H6
-----<<<<<<-<-<-<-<-<-<-<-<-<-<-<->>>>>>]
Py SRP   114 ---GCTCTCGTCTGTTGCAAGATATAAGTTGCTGAGCATGTTATGTTGGAAAAGATAACAT
Pb SRP   114 ---GCTCTCGTCTATTGCAAGATATAAGTTACTGAGCATGTTATGTTGGAAAAGATAACAT
Pc SRP   114 ---GCTCTCGTCTGTTGCAAGATATAAGTTACTGAGCATGTTATGTTGGAAAAGATAACAT
Pv SRP   110 TCGTTCGGTCTATGCAAGACACAGTACTGAAATGCTCTGTTGGAAAAGAGAACAT
Pk SRP   110 TCGGTTCCCGTCTATTGCAA GACACAGTACTGAAATGTTGTTCTGTTGGAAAAGAGAACAT
Pf SRP   112 A---ATTCGCGCTATCAACAAGACGTCAAGTACTGAAATATCTTCTGGAGAGAGAAATAT
Pr SRP   111 ---ATTCGCGCTATCAACAAGACGTCAAGTACTGAAATATCTTCTGGAGAGAGAAATAT
Pg SRP   111 T---GTTCCCGTCTATCAACAAGACATCAAGTACTGAGCATAATTTGTTGGAAAAGGAAATAT

                                     H8
>>>-->>>] [<<<<<-<-<-<-<-<-<->>>>>>]
Py SRP   171 GCTGGAGTAATAATGAATTGCGGAACGCCTTAGGCTGAAACAGAGCAGGGTTAGCAATC
Pb SRP   171 GCTGTAGTAATAATGAATTGCGGAACGCCTTAGGCTGAAACAGAGCAGGGTTAGCAATC
Pc SRP   171 GCTGGAGTAATAATGAATTGCGGAACGCCTTAGGCTGAAACAGAGCAGGGTTAGCAATC
Pv SRP   170 GTTGAAGTAATGATGAATGCAACCCGCTCAGGCTGAAACAGAGCAGGGTCAGTGGTC
Pk SRP   170 ATTGAAGTAATAATGAATGCAACCCGCTCAGGCTGAAACAGAGCAGGGTCAGTGGTC
Pf SRP   170 GTTGAAGTAATGATGAATCATGAACCCGCTCAGGCTGAAACAGAGCAGGGTTAGTGGTC
Pr SRP   168 GTTGAAGTAATGATGAATCATGAACCCGCTCAGGCTGAAACAGAGCAGGGTTAGTGGTC
Pg SRP   169 GCTGAAGTAATGATGAATCATGAACCCGCTCAGGCTGAAACAGAGCAGGGTTAGTGGTC

                                     H5
[>>>>>-->>>>]
Py SRP   231 GCTTGTATACGGTGCAAAGTTTGCGAT-GAGCGATTAGTATATCTC-GAAT-CTCGTCAA
Pb SRP   231 GCTTGTATACGGTGCAAAGTTTGCGAT-GAGCGATTAGTATATCTC-GAAT-CTCGTCAA
Pc SRP   231 GCTTGTATACGGTGCAAAGTTTGCGAT-GAGCGATTAGTATATCTC-GAAT-CTCGTCAA
Pv SRP   230 GCTGGTGTACGGTGCGAAGATTACGGTTGAGCGGGCAAGGTGTC-C-GAAT-CTC-TCTG
Pk SRP   230 GCTGGTGTACGGTGCGAAGATTACGGTTGAGCGGGCAAGGTGTC-T-GAAT-CTC-TCTT
Pf SRP   230 GCTGACGTACGGTGTGAAGATTACGGTTGAAATAAA-AGGATATTTTCAAGAT-CTCAT-AA
Pr SRP   228 GCTGACGTATGCTGTGAAGATTACGGTTGAAATAAA-AGGATATTTTCAAGAT-CTCAT-AA
Pg SRP   229 GCTGATGTACGGTGTGAAGATTACGGTTGAACATT-AAAGATATTTTCAAGAT-TCTCGT-AA

>>>-->>>]
Py SRP   288 GCATGGTAAGCACACCA
Pb SRP   288 GCATGGTAAGCACACCA
Pc SRP   288 GCATGGTAAGCACACCA
Pv SRP   286 ACAGGGTATGTACACCA
Pk SRP   286 GCAGGGTATGTACACCA
Pf SRP   287 GTATAATATGTACACCA
Pr SRP   285 GTATAATATGTACACCA
Pg SRP   287 ACGTAAATATGTACACCA
```

Supplementary Figure 9