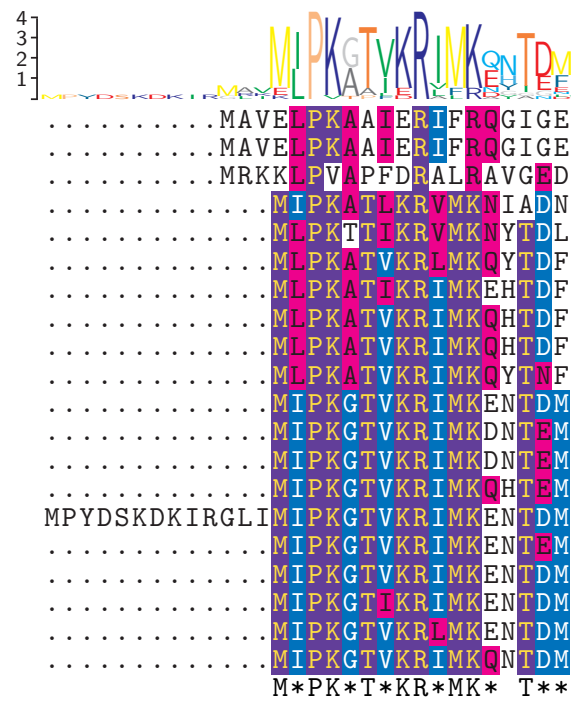


Archael.fasta

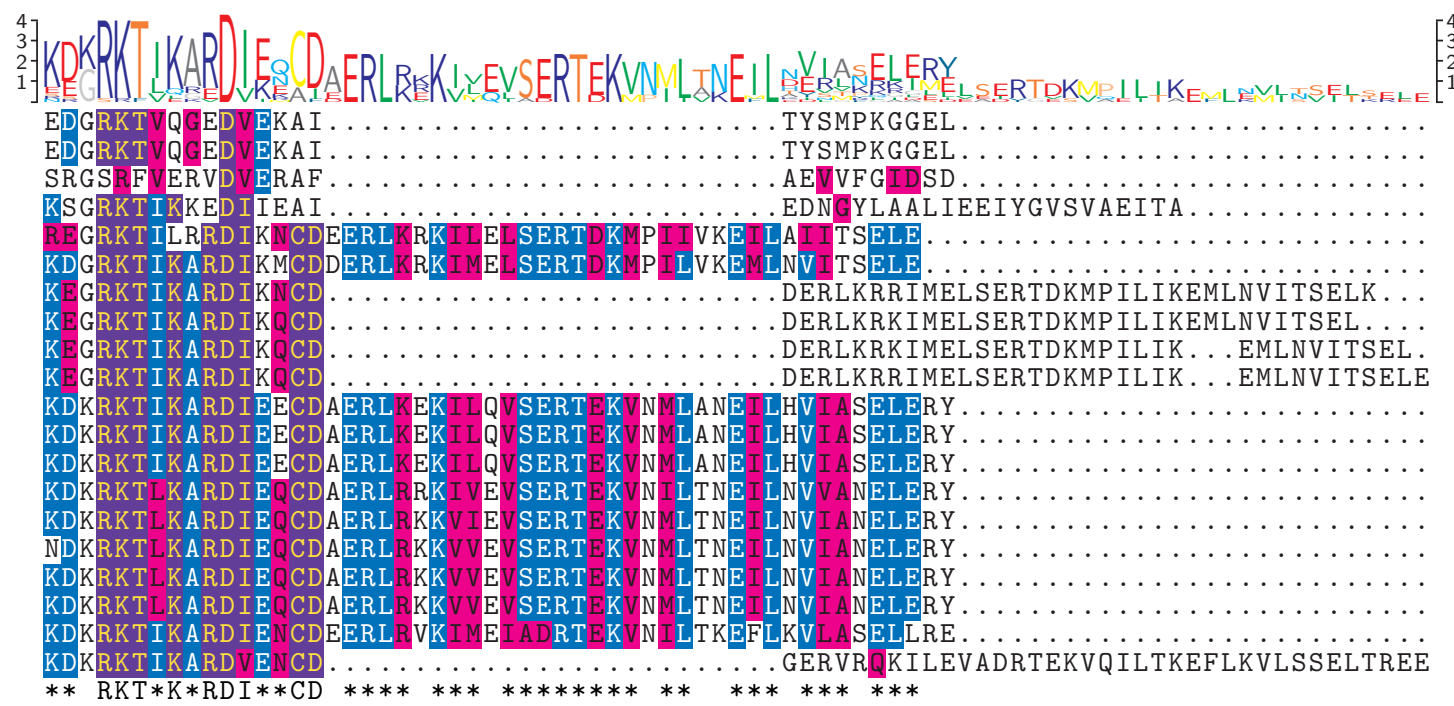
logo

28095113|Methanopyrus_kandleri/1-154
32599123|Methanopyrus_kandleri/1-154
20039344|Methanopyrus_kandleri/1-77
256811500|Methanocaldococcus_fer/1-94
296110032|Methanocaldococcus_inf/1-97
28610233|Methanocaldococcus_fer/1-97
261402363|Methanocaldococcus_vul/1-97
15669843|Methanocaldococcus_jann/1-96
9789763|Methanocaldococcus_janna/1-96
289192391|Methanocaldococcus_sp./1-97
297619385|Methanococcus_voltae/1-99
417132|Methanococcus_voltae/1-99
44722|Methanococcus_voltae/1-99
150399097|Methanococcus_vannielii/1-99
45358578|Methanococcus_maripalu/1-112
134045622|Methanococcus_maripalu/1-99
159906062|Methanococcus_maripalu/1-99
150402444|Methanococcus_maripalu/1-99
303224869|Methanothermococcus_ok/1-99
150401109|Methanococcus_aeolicus/1-100
consensus



logo

200951123[Methanopyrus_kandleri/1-154
3859122][Methanopyrus_kandleri/1-154
20093944[Methanopyrus_kandleri/1-77
256811500][Methanocaldococcus_fer/1-94
296110032][Methanocaldococcus_inf/1-97
256810233][Methanocaldococcus_fer/1-97
261402363][Methanocaldococcus_vul/1-97
156698343][Methanocaldococcus_jann/1-96
97897631][Methanocaldococcus_janna/1-96
299192391][Methanocaldococcus_sp./1-97
287619385][Methanococcus_voltae/1-99
471732][Methanococcus_voltae/1-99
44722][Methanococcus_voltae/1-99
150399097][Methanococcus_vannielii/1-99
45358578][Methanococcus_maripalu/1-112
134045622][Methanococcus_maripalu/1-99
159906062][Methanococcus_maripalu/1-99
150402144][Methanococcus_maripalu/1-99
303248869][Methanothermococcus_ok/1-99
150401109][Methanococcus_aeolicus/1-100
consensus

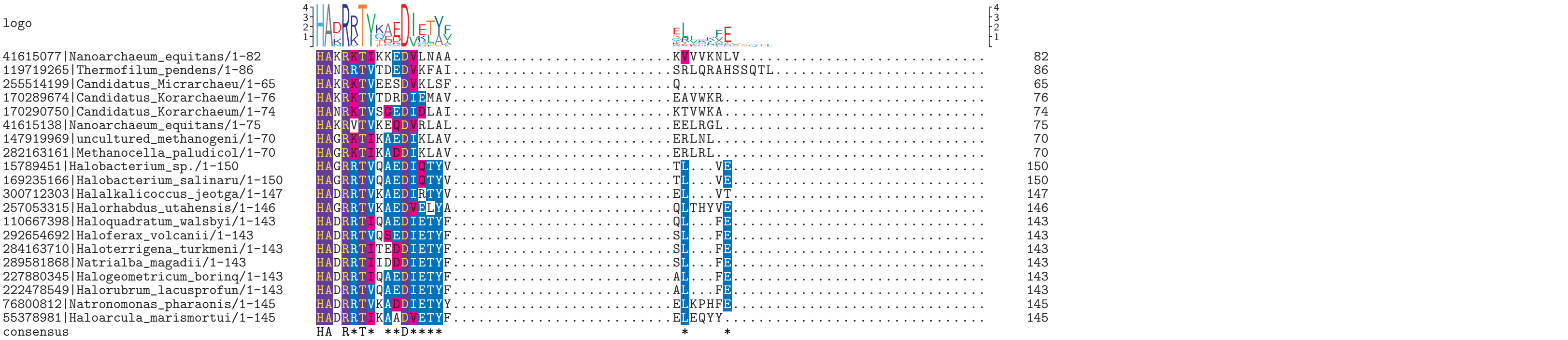
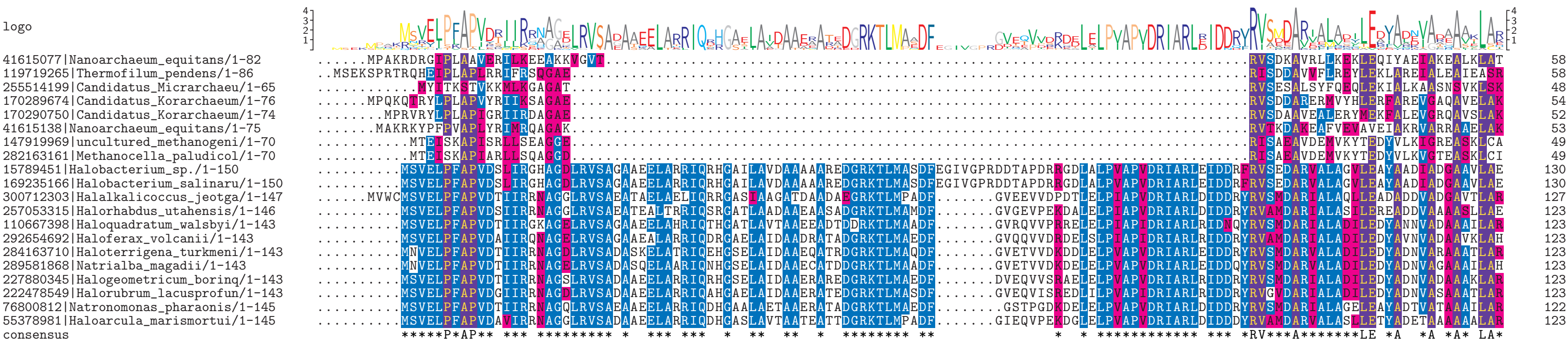


X	non conserved
X	similar
X	≥ 50% conserved
X	≥ 80% conserved

3
 4
 1
 2

.RASSDAADLYNKLTCRAATEELGEKAAEYD
 .RASSDAADLYNKLTCRAATEELGEKAAEYD
 .RUSRKASSTTRDHVQRRAEEIGKRCGEIAA
 .FRITSNDAVEECNNHKKLQELIVLKARMTAA
 .NISSAAVDELNCNMLEBIIKIVTTEVAQNAA
 .NISAAVDELNCNMLEBIIKIVTTEVAQNAA
 .NISAAVDELNCNMLEBIIKIVTTEVAQNAA
 .NISAAVDELNCNMLEBIIKIVTTEVAQNAA
 .NISAAVDELNCNMLEBIIKIVTTEVAQNAA
 .NISAAVDELNCNMLEBIIKIVTTEVAQNAA
 .YVSTESVVALVDLQBMIVTTTTRIAEENAA
 .YVSTESVVALVDLQBMIVTTTTRIAEENAA
 .YVSTESVVALVDLQBMIVTTTTRIAEENAA
 .NVSAESVEKLVLELQBMIVTTTQIAEQNAG
 .NVSAESVVALVEILQBMVVTTTKIAEENAA
 .NVSAESVAAVLEILQBMVVTTTKIAEENAA
 .NVSAESVAAVLEILQBMVVTTTKIAEENAA
 .NVSAESVAAVLEILQBMVVTTTKIAEENAE
 .NVSAESVVKLVLEILQBMIVTTTKMAEDHAR
 .NVSAESVVKLVLEILQBMIVTTTTRIAEENAA
 ***SE V * L L L L L C E * * * * T T * A A E * N A

[illegible]

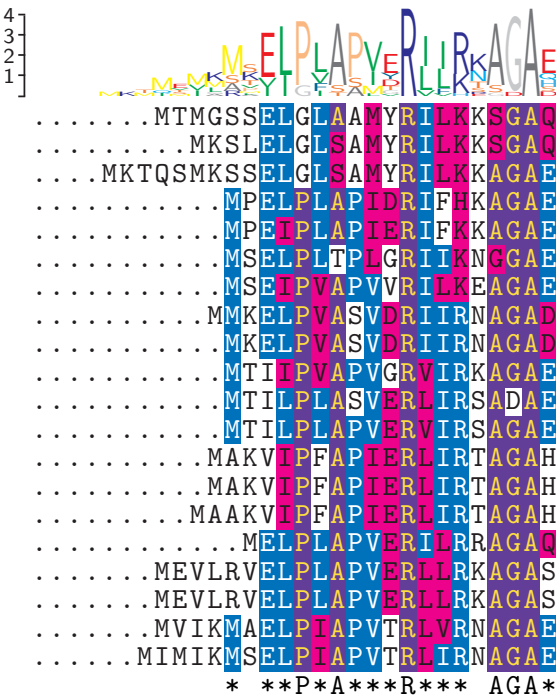


ⓧ non conserved
✖ similar
X ≥ 50% conserved
X ≥ 80% conserved



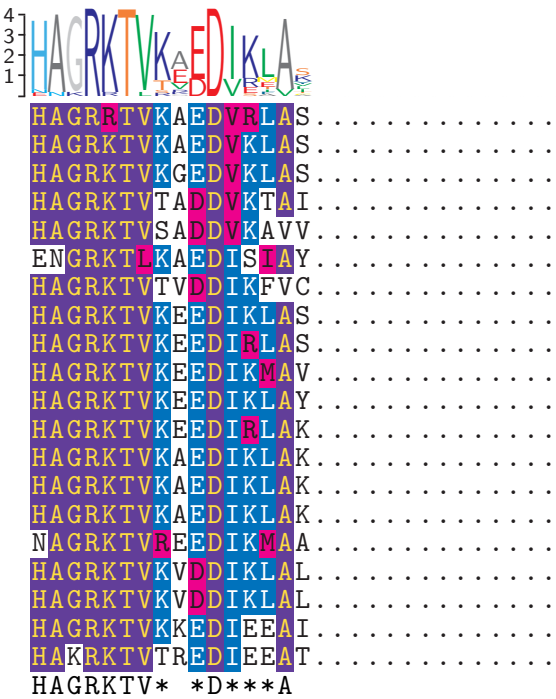
logo

68509980|Cenarchaeum_symbiosum/1-75
167044292|uncultured_marine/1-73
161528940|Nitrosopumilus_maritim/1-78
307595960|Vulcanisaeta_distribut/1-76
159042265|Caldivirga_maquilingen/1-74
84489195|Methanosphaera_stadtman/1-68
288560031|Methanobrevibacter_rum/1-66
282165331|Methanocella_paludicol/1-70
147919510|uncultured_methanogeni/1-69
294496333|Methanohalophilus_mahi/1-73
91773349|Methanococcoides_burton/1-73
298675834|Methanohalobium_vesti/1-68
73669096|Methanosarcina_barkeri/1-69
20089557|Methanosarcina_acetivor/1-69
21227927|Methanosarcina_mazei/1-70
284161366|Archaeoglobus_profundu/1-70
11497949|Archaeoglobus_fulgidus/1-72
6685482|Archaeoglobus_fulgidus/1-72
268324247|uncultured_archaeon/1-70
82617213|uncultured_archaeon/1-71
consensus

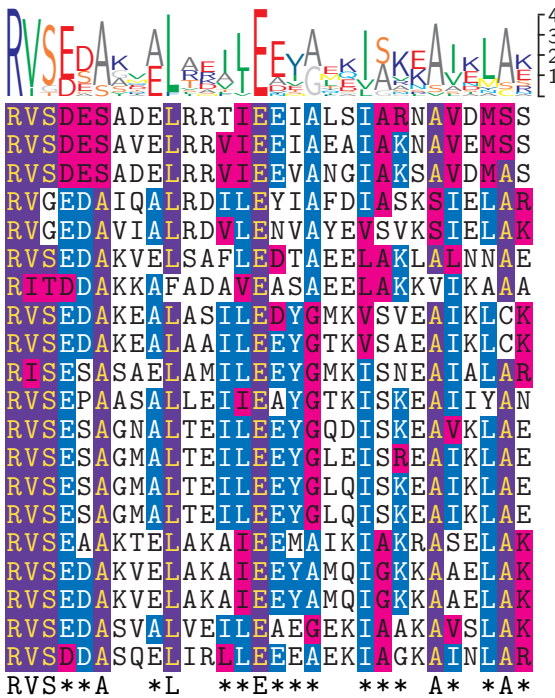


logo

68509980|Cenarchaeum_symbiosum/1-75
167044292|uncultured_marine/1-73
161528940|Nitrosopumilus_maritim/1-78
307595960|Vulcanisaeta_distribut/1-76
159042265|Caldivirga_maquilingen/1-74
84489195|Methanosphaera_stadtman/1-68
288560031|Methanobrevibacter_rum/1-66
282165331|Methanocella_paludicol/1-70
147919510|uncultured_methanogeni/1-69
294496333|Methanohalophilus_mahi/1-73
91773349|Methanococcoides_burton/1-73
298675834|Methanohalobium_vesti/1-68
73669096|Methanosarcina_barkeri/1-69
20089557|Methanosarcina_acetivor/1-69
21227927|Methanosarcina_mazei/1-70
284161366|Archaeoglobus_profundu/1-70
11497949|Archaeoglobus_fulgidus/1-72
6685482|Archaeoglobus_fulgidus/1-72
268324247|uncultured_archaeon/1-70
82617213|uncultured_archaeon/1-71
consensus



- non conserved
- similar
- ≥ 50% conserved
- ≥ 80% conserved

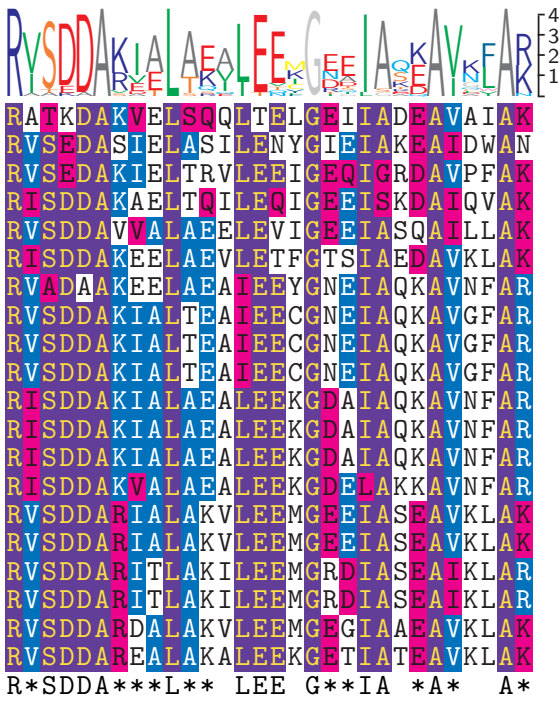
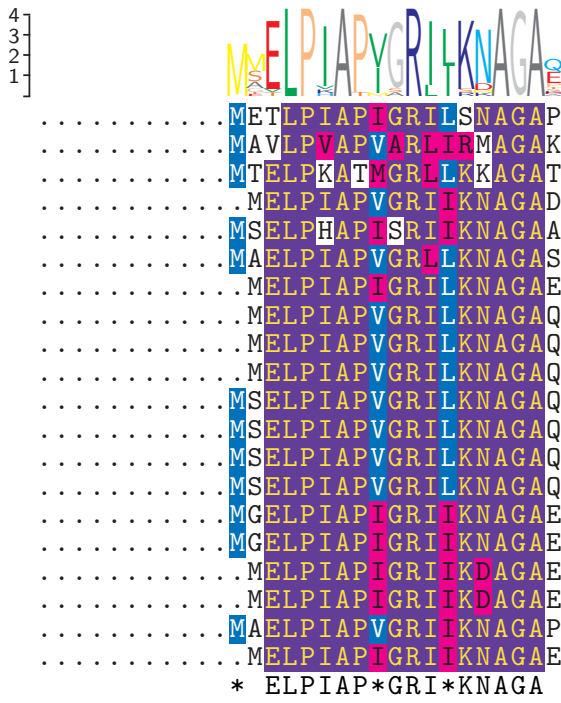


53
51
56
49
49
49
49
49
49
50
49
49
49
49
50
50
51
48
53
53
53
54

75
73
78
76
74
68
66
70
69
73
73
68
69
69
70
70
72
72
70
71

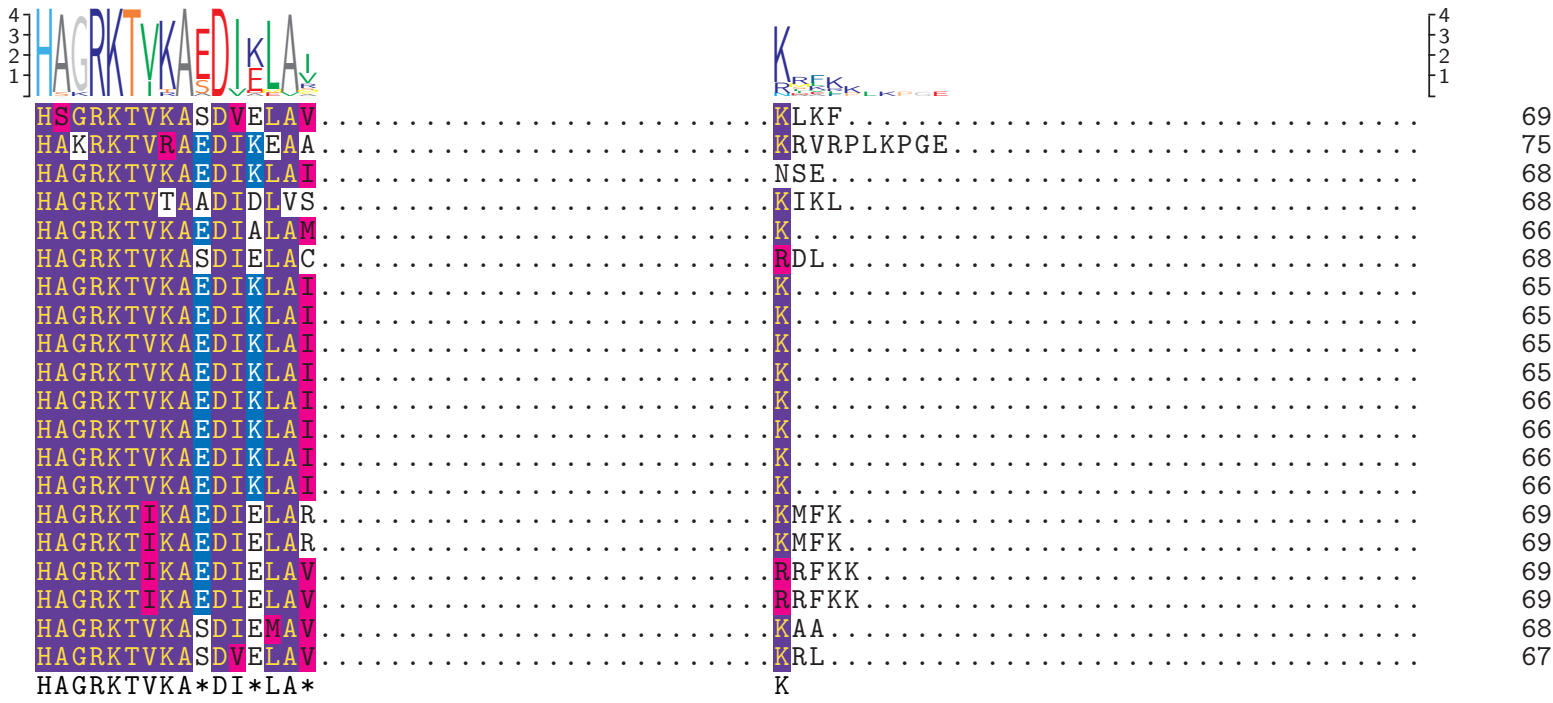
logo

84489423|Methanosphaera_stadtman/1-69
116753348|Methanosaeta_thermophi/1-75
84489573|Methanosphaera_stadtman/1-68
84488997|Methanosphaera_stadtman/1-68
84489328|Methanosphaera_stadtman/1-66
84488952|Methanosphaera_stadtman/1-68
288560747|Methanobrevibacter_rum/1-65
148642273|Methanobrevibacter_smi/1-65
222444555|Methanobrevibacter_smi/1-65
261350906|Methanobrevibacter_smi/1-65
148642904|Methanobrevibacter_smi/1-66
222445137|Methanobrevibacter_smi/1-66
261350295|Methanobrevibacter_smi/1-66
288560942|Methanobrevibacter_rum/1-66
312137142|Methanothermus_fervidu/1-69
1346303|Methanothermus_fervidu/1-69
312137410|Methanothermus_fervidu/1-69
123365|Methanothermus_fervidu/1-69
1346284|Methanobacterium_formici/1-68
1346286|Methanobacterium_formici/1-67
consensus

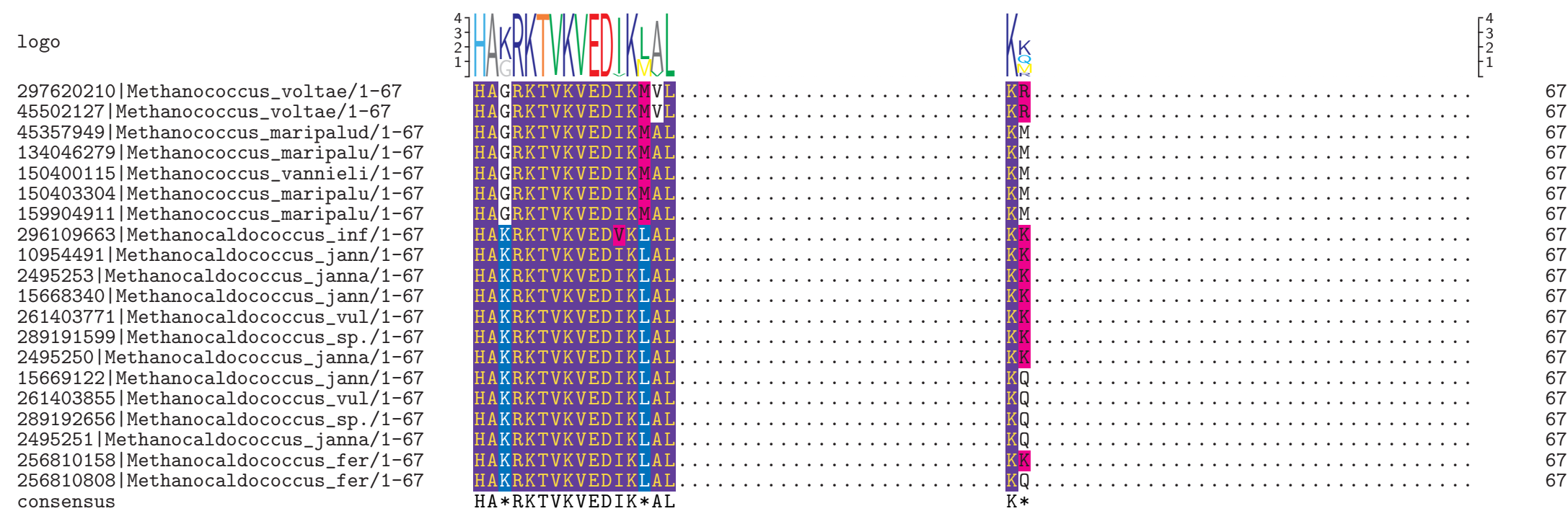
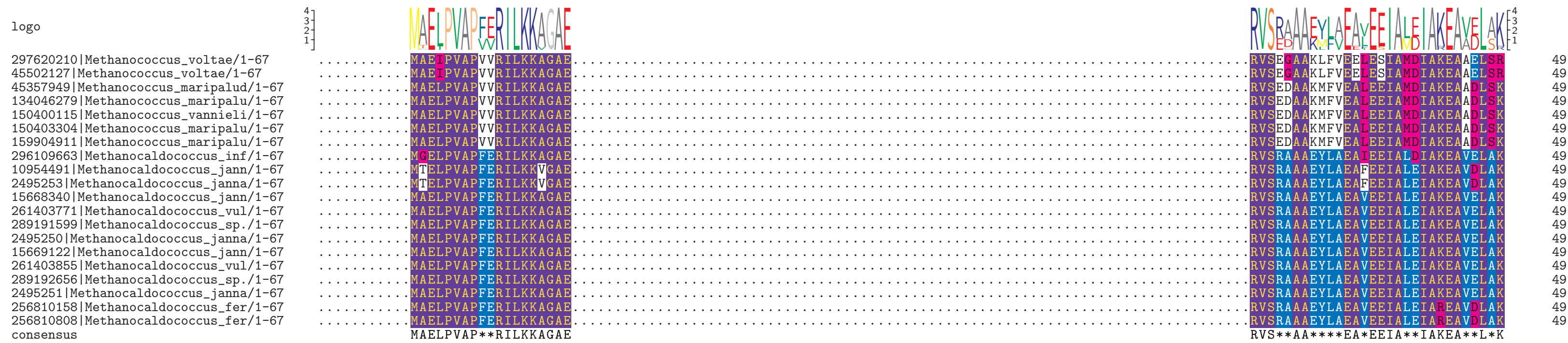


logo

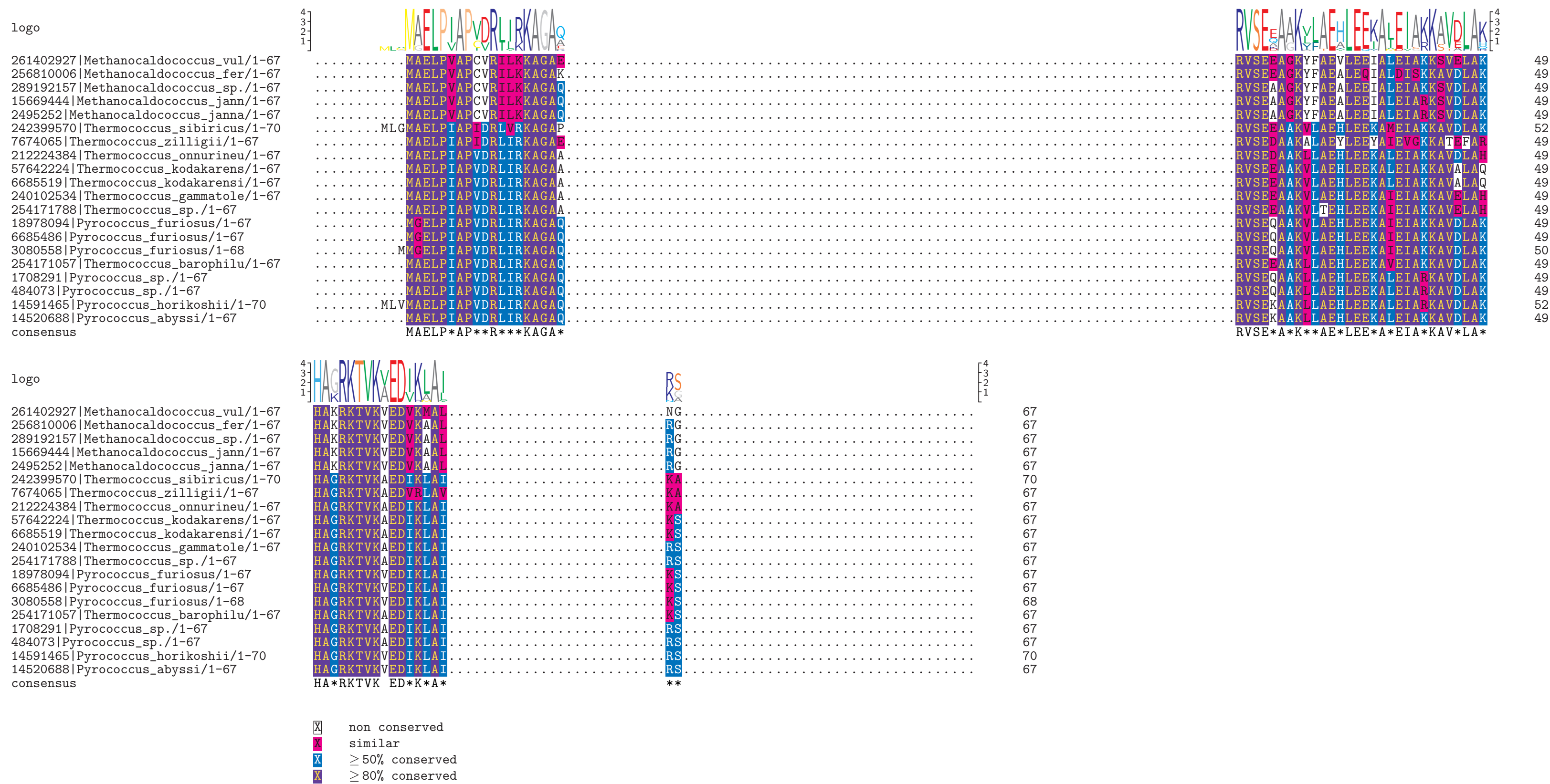
84489423|Methanosphaera_stadtman/1-69
116753348|Methanosaeta_thermophi/1-75
84489573|Methanosphaera_stadtman/1-68
84488997|Methanosphaera_stadtman/1-68
84489328|Methanosphaera_stadtman/1-66
84488952|Methanosphaera_stadtman/1-68
288560747|Methanobrevibacter_rum/1-65
148642273|Methanobrevibacter_smi/1-65
222444555|Methanobrevibacter_smi/1-65
261350906|Methanobrevibacter_smi/1-65
148642904|Methanobrevibacter_smi/1-66
222445137|Methanobrevibacter_smi/1-66
261350295|Methanobrevibacter_smi/1-66
288560942|Methanobrevibacter_rum/1-66
312137142|Methanothermus_fervidu/1-69
1346303|Methanothermus_fervidu/1-69
312137410|Methanothermus_fervidu/1-69
123365|Methanothermus_fervidu/1-69
1346284|Methanobacterium_formici/1-68
1346286|Methanobacterium_formici/1-67
consensus

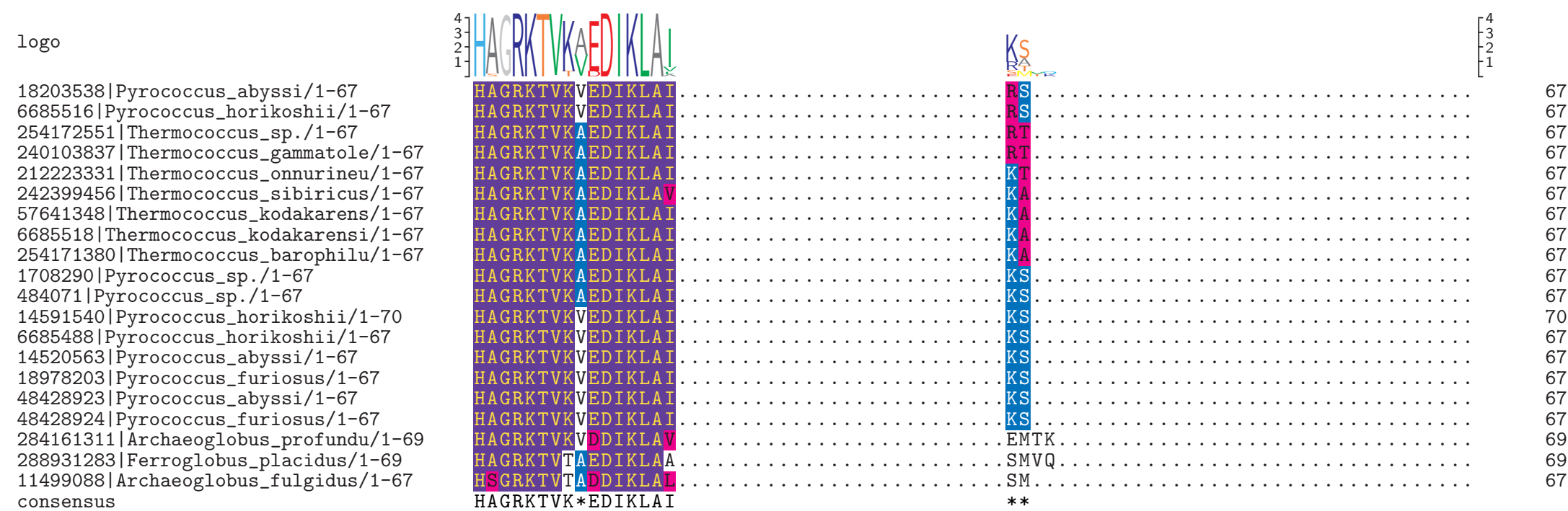
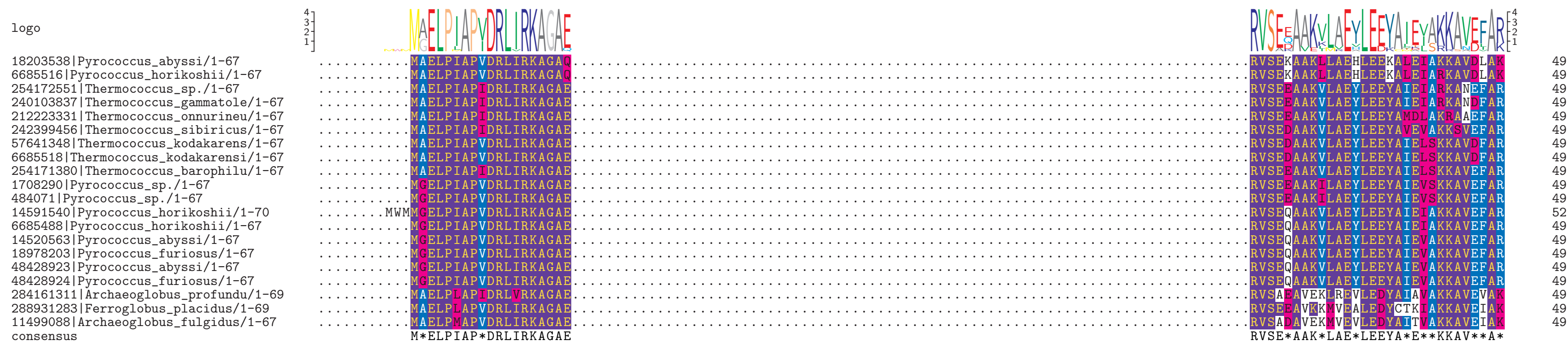


non conserved
similar
≥ 50% conserved
≥ 80% conserved



X	non conserved
X	similar
X	$\geq 50\%$ conserved
X	$\geq 80\%$ conserved





X	non conserved
X	similar
X	$\geq 50\%$ conserved
X	$\geq 80\%$ conserved

