```
              1        10        20        30        40        50
Consensus     MA-R-RRRRHRGPRRPRPPGPTGAVPTAQSQVTSTPNSEPAVKSAPAAAP-PPPPAG
Identity

1. 17v2|RL1   MA-R--RRRHRGPRRPRPPGPTGAVPTAQSQVTSTPNSEPAVRSAPAAAP-PPPPAG
2. F|RL1      MA-R--RRRHRGPRRPRPPGPTGAVPTAQSQVTSTPNSEPAVRSAPAAAP-PPPPAS
3. H129|R...  MA-R-RRRRHRGPRRPRPPGPTGAVPTAQSQVTSTPNSEPVVRSAPAAAP-PPPPAG
4. KOS|RL1    MA-R---RRHRGPRRPRPPGPTGAVPTAQSQVTSTPNSEPVVRSAPAAAP-PPPPAS
5. McKr|RL1   MA-R--RRRHRGPRRPRPPGPTGAVPTAQSQVTSTPNSEPAVRSAPAAAP-PPPPAG
6. HF10|RL1   MA-R-RRRRHRGPRRPRPPGPTGAVPTAQSQVTSTPNSEPVVRSAPAAAP-PPPPAG
7. CR38|RL1   MA-R--RRRHRGPRRPRPPGPTGAVPTAQSQVTSTPNSEPVVRSAPAAAP-PPPPAS
8. E03|RL1    MA-R-RRRRHRGPRRPRPPGPTGAVPTAQSQVTSTPNSEPAVKSAPAATP-PPPPTS
9. E06|RL1    MA-R-RRRRHRGPRRPRPPGPTGAVPTAQSQVTSTPNSEPAVKSAPAAAP-PPPPAG
10. E07|RL1   MA-R-RRRRHRGPRRPRPPGPTGAVPTAQSQVTSTPNSEPAVRSAPAAAP-PPPPAG
11. E08|RL1   MARR-RRRRHRDPRRPRPPGPTGAVPTAQSQVTSTPNSEPAVKSAPAAAP-PPPPAD
12. E10|RL1   MA-R-RRRRHRGPRRPRPPGPTGAVPTAQSQVTSTPNSEPAVKSAPAAAP-PPPPAG
13. E11|RL1   MA-R-RRRRHRGPRRPRPPGPTGAVPTAQSQVTSTPNSEPAVKSAPAAAP-PPPPAG
14. E12|RL1   MA-R-RRRRHRGPRRPRPPGPTGAVPTAQSQVTSTPNSEPAVKSAPAAAPPPPPAG
15. E13|RL1   MA-R-RRRRHRDPRRPRPPGPTGAVPTAQSQVTSTPNSEPAVKSAPAAAP-PPLPAN
16. E14|RL1   MA-RRRRRRHRDPRRPRPPGPTGAVPTAQSQVTSTPNSEPAVKSAPAAAP-PPPPAG
17. E15|RL1   MA-R-RRRRHRGPRRPRPPGPTGAVPTAQSQVTSTPNSEPAVKSAPAAAP-PPPPAG
18. E19|RL1   MA-R--RRRHRDPRRPRPPGPTGAVPTAQSQVTSTPNSEPAVKSAPAAAP-PPPPAD
19. E22|RL1   MA-R-RRRRHRGPRRPRPPGPTGAVPTAQSQVTSTPNSEPAVKSAPAAAP-PPPPAG
20. E23|RL1   MA-R-RRRRHRGPRRPRPPGPTGAVPTAQSQVTSTPNSEPAVKSAPAAAP-PPPPAG
21. E25|RL1   MA-R-RRRRHRGPRRPRPPGPTGAVPTAQSQVTSTPNSEPAVKSAPAAAP-PPPPAG
22. E35|RL1   MA-R-RRRRHRGPRRPRPPGPTGAVPTAQSQVTSTPNSEPAVKSAPAAAP-PPPPAG
23. R11|RL1   MA-R-RRRRHRDPRRPRPPGPTGAVPTAQSQVTSTPNSEPAVRSAPAAAP-PPPPAS
24. R62|RL1   MA-R-RRRRHRGPRRPRPPGPTGAVPTAQSQVTSTPNSEPAVKSAPAAAP-PPPPAS
25. S23|RL1   MA-R-RRRRHRGPRRPRPPGPTGAVPTAQSQVTSTPNSEPAVKSAPAAAP-PPPPAS
26. S25|RL1   MA-R-RRRRHRGPRRPRPPGPTGAVPTAQSQVTSTPNSEPAVKSAPAAAP-PPPPAS

                60        70        80        90        100       110
Consensus     GPPPSCSLLLRQWLHVPESASDDDDDDDWPDSPPPEPAPEARPTA-AAPRPRSPPPG
Identity

1. 17v2|RL1   GPPPSCSLLLRQWLHVPESASDDDDDDDWPDSPPPEPAPEARPTA-AAPRPRPPPPG
2. F|RL1      GPPPSCSLLLRQWLHVPESASDDDDDDDWPDSPPPEPAPEARPTA-AAPRPRSPPPG
3. H129|R...  GPPPSCSLLLRQWLHVPESASDDDDDDDWPDSPPPEPAPDARPTA-AAPRPRSPPPG
4. KOS|RL1    GPPPSCSLLLRQWLHVPESASDDD-DDDWPDSPPPEPAPEARPTA-AAPRPRSPPPG
5. McKr|RL1   GPPPSCSLLLRQWLHVPESASDDDDDDDWPDSPPPEPAPEARPTA-AAPRPRSPPPG
6. HF10|RL1   GPPPSCSLLLRQWLHVPESASDDDDDDDWPDSPPPEPAPEARPTA-AAPRPRSPPPG
7. CR38|RL1   GPPPSCSLLLRQWLHVPESASDDD-DDDWPDSPPPEPAPEARPTA-AAPRPRSPPPG
8. E03|RL1    GPPPSSSLLLRQWLHVPESASDDDDDDDWPDSPPPEPAPKARPTA-TAPRPRSPPPG
9. E06|RL1    GPPPSSSLLLRHWLHVPESASDDDDDDDWPDSPPPEPEPKARPTAAAAPRPRSPPPD
10. E07|RL1   GPPPSCSLLLRQWLHVPESASDDDDDDDWPDSPPPEPAPKARPTAAAAPRPRSPPPD
11. E08|RL1   GPPPSSSLLLRQWLHVPESASDDDDDDDWPDSPPPE----ARPTA-AAPRPRSPSPG
12. E10|RL1   GPPPSSSLLLRHWLHVPESASDDDDDDDWPDSPPPEPEPKARPTAAAAPRPRSPPPD
13. E11|RL1   GPPPSSSLLLRHWLHVPESASDDDDDDDWPDSPPPEPEPKARPTAAAAPRPRSPPPD
14. E12|RL1   GPPPSCSLLLRQWLHVPESASDDDDDDDWPDSPPPEPAPEARPTAAAAPRPRSPPPD
15. E13|RL1   GPPPSSSLLLRQWLHVPESASDDDDDDDWPHSPPPEPAPEARPTA-AAPRPRSPSPG
16. E14|RL1   GPPPSCSLLLRQWLHVPESASDDDDDDDWPDSPPPEPEPEARPTAAAAPRPRSPPPD
17. E15|RL1   GPPPSSSLLLRHWLHVPESASDDDDDDDWPDSPPPEPEPKARPTAAAAPRPRSPPPD
18. E19|RL1   GPPPSSSLLLRQWLHVPESASDDDDDDDWPDSPPPE----ARPTA-AAPRPRSPSPG
19. E22|RL1   GPPPSSSLLLRHWLHVPESASDDDDDDDWPDSPPPEPEPKARPTAAAAPRPRSPPPD
20. E23|RL1   GPPPSSSLLLRHWLHVPESASDDDDDDDWPDSPPPEPEPKARPTAAAAPRPRSPPPD
21. E25|RL1   GPPPSSSLLLRHWLHVPESASDDDDDDDWPDSPPPEPEPKARPTAAAAPRPRSPPPD
22. E35|RL1   GPPPSSSLLLRHWLHVPESASDDDDDDDWPDSPPPEPEPKARPTAAAAPRPRSPPPD
23. R11|RL1   GPPPSCSLLLRQWLHVPESASDDDGDDDWPDSPPPEPAPEARPTA-AAPRPRSPPPG
24. R62|RL1   GPPPSCSLLLRQWLHVPESASDDDDDDDWPDSPPPEPAPEARPTA-AAPRPRSPPPG
25. S23|RL1   GPPPSCSLLLRQWLHVPESASDDDDDDDWPDSPPPEPAPEARPTA-AAPRPRSPPPG
26. S25|RL1   GPPPSCSLLLRQWLHVPESASDDDDDDDWPDSPPPEPAPEARPTA-AAPRPRSPPPG

                 120       130       140       150       160       170
Consensus     AGPGGGADPSHPPSRPFRLPPRLALRLRVTAEHLARLRLRRAGGEGAPEPPATPATP
Identity

1. 17v2|RL1   VGPGGGADPSHPPSRPFRLPPRLALRLRVTAEHLARLRLRRAGGEGAPEPPATPATP
2. F|RL1      AGPGGGANPSHPPSRPFRLPPRLALRLRVTAEHLARLRLRRAGGEGAPEPPATPATP
3. H129|R...  AGPGGGANPSHPPSRPFRLPPRLALRLRVTAEHLARL--RRAGGEGAPEPPATPATP
4. KOS|RL1    AGPGGGANPSHPPSRPFRLPPRLALRLRVTAEHLARLRLRRAGGEGAPKPPATPATP
5. McKr|RL1   VGPGGGADPSHPPSRPFRLPPRLALRLRVTAEHLARLRLRRAGGEGAPEPPATPATP
6. HF10|RL1   AGPGGGANPSHPPSRPFRLPPRLALRLRVTAEHLARLRRRRAGGEGAPEPPATPATP
7. CR38|RL1   AGPGGGANPSHPPSRPFRLPPRLALRLRVTAERLARLRLRRAGGEAAPEPPATPATP
8. E03|RL1    AGPGGGADPSHPPSRPFRLPPRLALRLRVTAEHLARLRLRRAGGEGAPEPPATPATP
9. E06|RL1    AGPEGRADPSHPPSRPFRLPPRLALRLRVTAEHLARLRLRRAGGEGAPEXX------
10. E07|RL1   AGPGGGAHPSHPPSRPFRLPPRLALRLRVTAEHLARLRLRRAGGEGAPEPPATPATP
11. E08|RL1   VGPGGGAHPSHPPSRPFRLPPRLALRLRVTAEHLARLRLRRAGGEGAPEXX------
12. E10|RL1   AGPEGRADPSHPPSRPFRLPPRLALRLRVTAEHLARLRLRRAGGEGAPEXX------
13. E11|RL1   AGPEGRADPSHPPSRPFRLPPRLALRLRVTAEHLARLRLRRAGGEGAPEXX------
14. E12|RL1   AGPGGRAHPSHPPSRPFRLPPRLALRLRVTAEHLARLRLRRAGGEGAPEPPATPATP
15. E13|RL1   VGPGGGAHPSHPPSRPFRLPPRLALRLRVTAEHLARLRLRRAGGEGAPEXX------
16. E14|RL1   AGPGGGAHPSHPPSRPFRLPPRLALRLRVTAEHLARLRLRRAGGEGAPEPPATPATP
17. E15|RL1   AGPEGRADPSHPPSRPFRLPPRLALRLRVTAEHLVRLRLRRAGGEGAPEXX------
18. E19|RL1   VGPGGGAHPSHPPSRPFRLPPRLALRLRVTAEHLARLRLRRAGGEGAPEPPATPATP
19. E22|RL1   AGPEGRADPSHPPSRPFRLPPRLALRLRVTAEHLARLRLRRAGGEGAPEPPKTPAPP
20. E23|RL1   AGPEGRADPSHPPSRPFRLPPRLALRLRVTAEHLVRLRLRRAGGEGAPEXX------
21. E25|RL1   AGPEGRADPSHPPSRPFRLPPRLALRLRVTAEHLARLRLRRAGGEGAPEXX------
22. E35|RL1   AGPEGRADPSHPPSRPFRLPPRLALRLRVTAEHLVRLRLRRAGGEGAPEXX------
23. R11|RL1   AGPGGGANPSHPPSRPFRLPPRLALRLRVTAERLARLRLRRAGGEGAPEPPATPATP
24. R62|RL1   AGPGGGANPSHPPSRPFRLPPRLALRLRVTAEHLARLRLRRAGGEGAPEXX------
25. S23|RL1   AGPGGGANPSHPPSRPFRLPPRLALRLRVTAEHLARLRLRRAGGEGAPEPPATPATP
26. S25|RL1   AGPGGGANPSHPPSRPFRLPPRLALRLRVTAEHLARLRLRRAGGEGAPEPPATPATP

                   180       190       200        210       220
Consensus     ATP------------------------------ARVRFSPHVRVRHLVVWASAARLA
Identity

1. 17v2|RL1   ATPATPATP------------------------ARVRFSPHVRVRHLVVWASAARLA
2. F|RL1      ATPATPATP------------------------ARVRFSPHVRVRHLVVWASAARLA
3. H129|R...  ATP------------------------------ARVRFSPHVRVRHLVVWASAARLA
4. KOS|RL1    ATP------------------------------TRVRFSPHVRVRHLVVWASAARLA
5. McKr|RL1   ATPATPATPATPATPATP---------------ARVRFSPHVRVRHLVVWASAARLA
6. HF10|RL1   ATPATPATP------------------------ARVRFSPHVRVRHLVVWASAARLA
7. CR38|RL1   ATPATPATPATPATPATPATPATPATPATPATPARVRFSPHVRVRHLVVWASAARLA
8. E03|RL1    ATP------------------------------ARVRFSPHVRVRHLVVWASAARLA
9. E06|RL1    ---------------------------------XRVRFSPHVRVRHLVVWASAARLA
10. E07|RL1   ---------------------------------ARVRFSPHVRVRHLVVWASAARLA
11. E08|RL1   ---------------------------------XRVRFSPHVRVRHLVVWASAARLA
12. E10|RL1   ---------------------------------XRVRFSPHVRVRHLVVWASAARLA
13. E11|RL1   ---------------------------------XRVRFSPHVRVRHLVVWASAARLA
14. E12|RL1   ---------------------------------ARVRFSPHVRVRHLVVWASAARLA
15. E13|RL1   ---------------------------------XRVRFSPHVRVRHLVVWASAARLA
16. E14|RL1   ATPATP---------------------------ARVRFSPHVRVRHLVVWASAARLA
17. E15|RL1   ---------------------------------XRVRFSPHVRVRHLVVWASAARLA
18. E19|RL1   ATPATPATPATPATP------------------ARVRFSPHVRVRHLVVWASAARLA
19. E22|RL1   KTP------------------------------ARVRFSPHVRVRHLVVWASAARLA
20. E23|RL1   ---------------------------------XRVRFSPHVRVRHLVVWASAARLA
21. E25|RL1   ---------------------------------XRVRFSPHVRVRHLVVWASAARLA
22. E35|RL1   ---------------------------------XRVRFSPHVRVRHLVVWASAARLA
23. R11|RL1   ATP------------------------------ARVRFSPHVRVRHLVVWASAARLA
24. R62|RL1   ---------------------------------XRVRFSPHVRVRHLVVWASAARLA
25. S23|RL1   ATPATP---------------------------ARVRFSPHVRVRHLVVWASAARLA
26. S25|RL1   ATP------------------------------ARVRFSPHVRVRHLVVWASAARLA

              230       240       250       260       270    277
Consensus     RRGSWARERADRARFRRRVAEAEAVIGPCLGPEARARALARGAGPANSV
Identity

1. 17v2|RL1   RRGSWARERADRARFRRRVAEAEAVIGPCLGPEARARALARGAGPANSV
2. F|RL1      RRGSWARERADRARFRRRVAEAEAVIGPCLGPEARARALARGAGPANSV
3. H129|R...  RRGSWARERADRARFRRRVAEAEAVIGPCLGPEARARALARGAGPANSV
4. KOS|RL1    RRGSWARERADRARFRRRVAEAEAVIGPCLGPEARARALARGAGPANSV
5. McKr|RL1   RRGSWARERADRARFRRRVAEAEAVIGPCLGPEARARALARGAGPANSV
6. HF10|RL1   RRGSWARERADRARFRRRVAEAEAVIGPCLGPEARARALARGAGPANSV
7. CR38|RL1   RRGSWARERADRARFRRRVAEAEAVIGPCLGPEARARALARGAGPANSV
8. E03|RL1    RRGSWARERADRARFRRRVAEAEAVIGPCLGPEARARALARGAGPANSV
9. E06|RL1    RRGSWARERADRARFRRRVAEAEAVIGPCLGPEARARALARGAGPANSV
10. E07|RL1   RRGSWARERADRARFRRRVAEAEAVIGPCLGPEARARALARGAGPANSV
11. E08|RL1   RRGSWARERADRARFRRRVAEAEAVIGPCLGPEARARARARRAGPANSV
12. E10|RL1   RRGSWARERADRARFRRRVAEAEAVIGPCLGPEARARALARGAGPANSV
13. E11|RL1   RRGSWARERADRARFRRRVAEAEAVIGPCLGPEARARALARGAGPANSV
14. E12|RL1   RRGSWARERADRTRFRRRVAEAEAVIGPCLGPEARARALARGAGPANSV
15. E13|RL1   RRGSWARERADRARFRRRVAEAEAVIGPCLGPEARARALARGAGPANSV
16. E14|RL1   RRGSWARERADRARFRRRVAEAEAVIGPCLGPEARARALARGAGPANSV
17. E15|RL1   RRGSWARERADRARFRRRVAEAEAVIGPCLGPEARARALARGAGPANSV
18. E19|RL1   RRGSWARERADRARFRRRVAEAEAVIGPCLGPEARARARARRAGPANSV
19. E22|RL1   RRGSWARERADRARFRRRVAEAEAVIGPCLGPEARARALARGAGPANSV
20. E23|RL1   RRGSWARERADRARFRRRVAEAEAVIGPCLGPEARARALARGAGPANSV
21. E25|RL1   RRGSWARERADRARFRRRVAEAEAVIGPCLGPEARARALARGAGPANSV
22. E35|RL1   RRGSWARERADRARFRRRVAEAEAVIGPCLGPEARARALARGAGPANSV
23. R11|RL1   RRGSWARARADRARFRRRVAEAEAVIGPCLGPEARARALARGAGPANSV
24. R62|RL1   RRGSWARERADRARFRRRVAEAEAVIGPCLGPEARARALARGAGPANSV
25. S23|RL1   RRGSWARERADRARFRRRVAEAEAVIGPCLGPEARARALARGAGPANSV
26. S25|RL1   RRGSWARERADRARFRRRVAEAEAVIGPCLGPEARARALARGAGPANSV
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