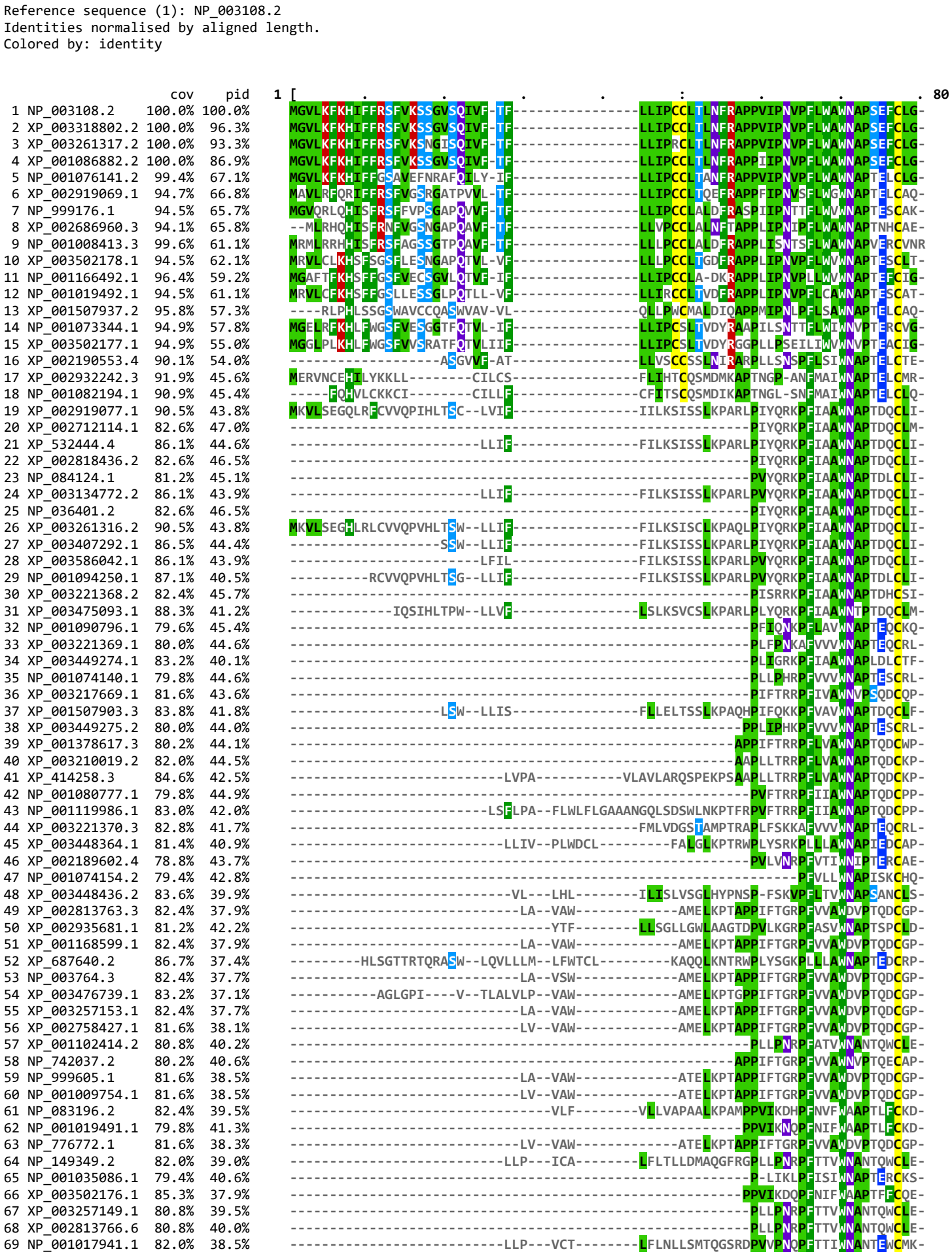
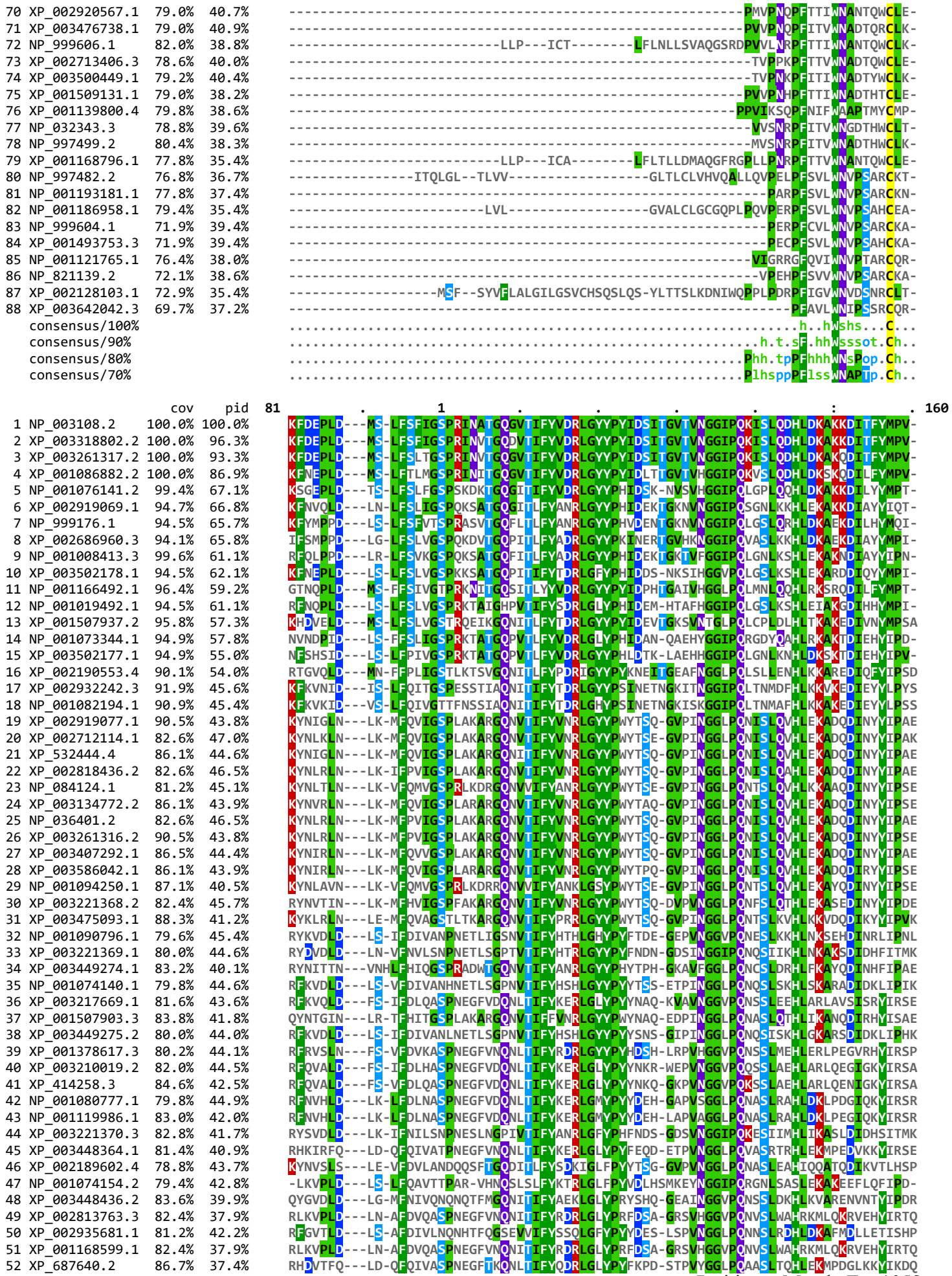
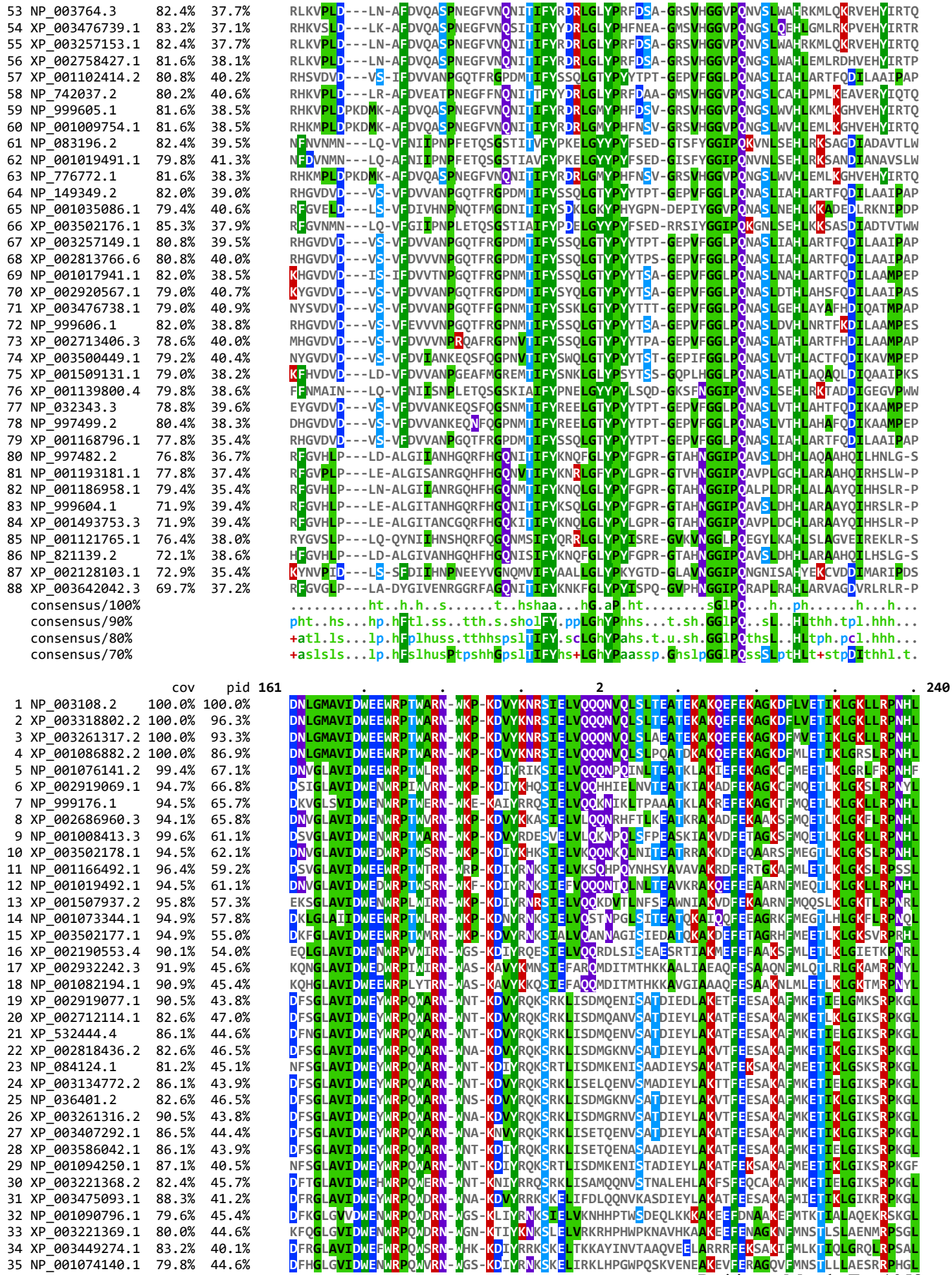
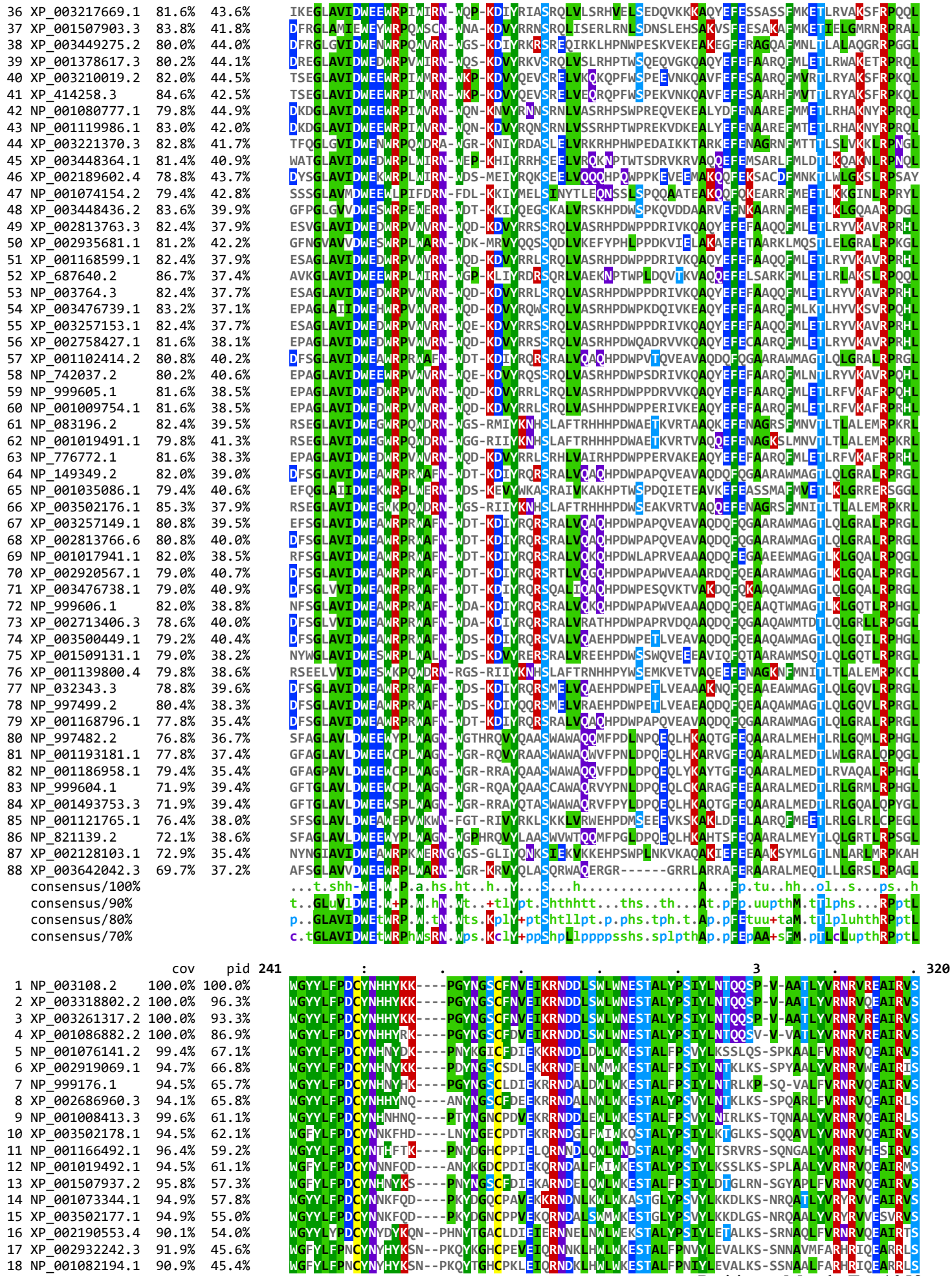
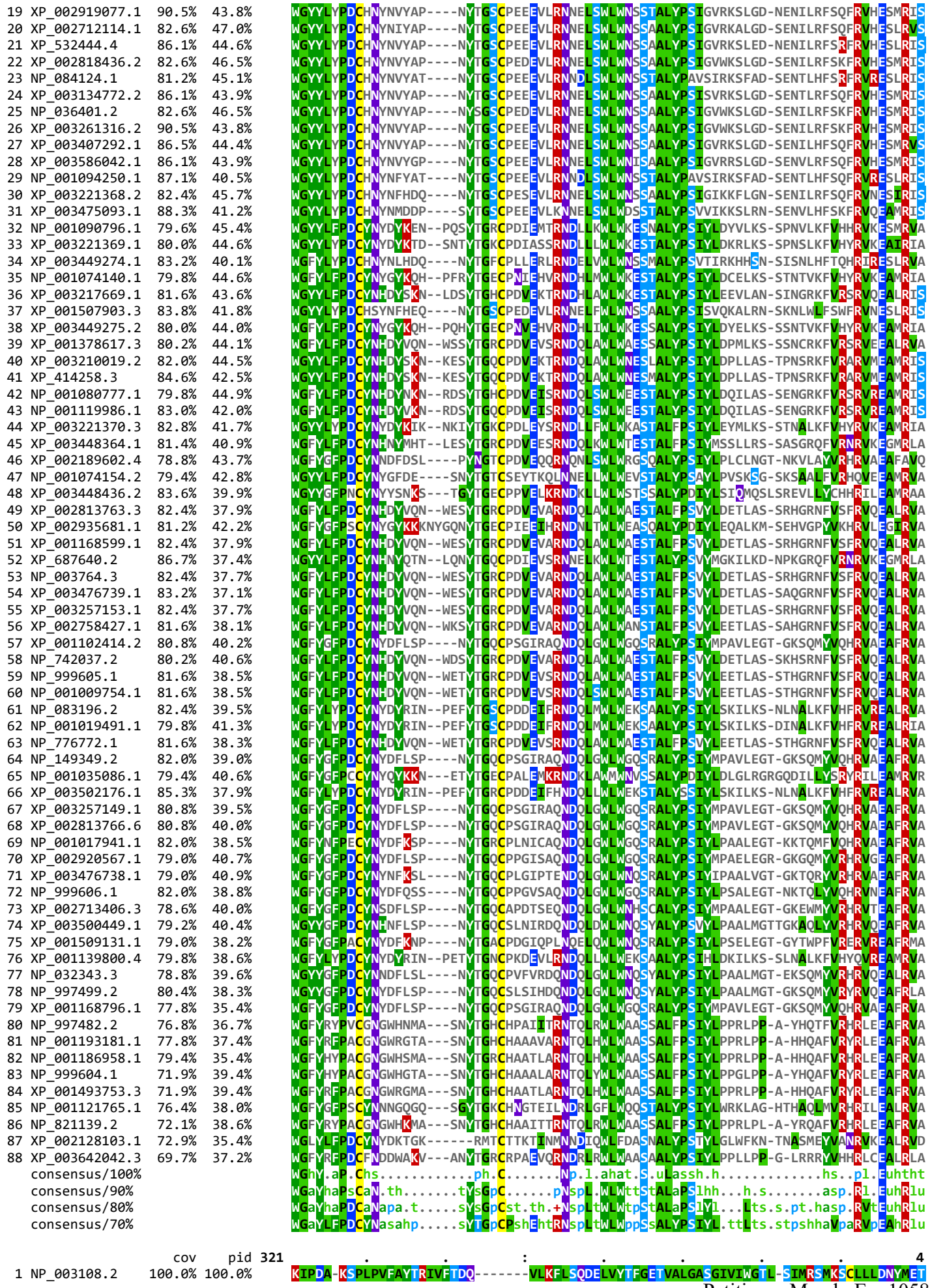
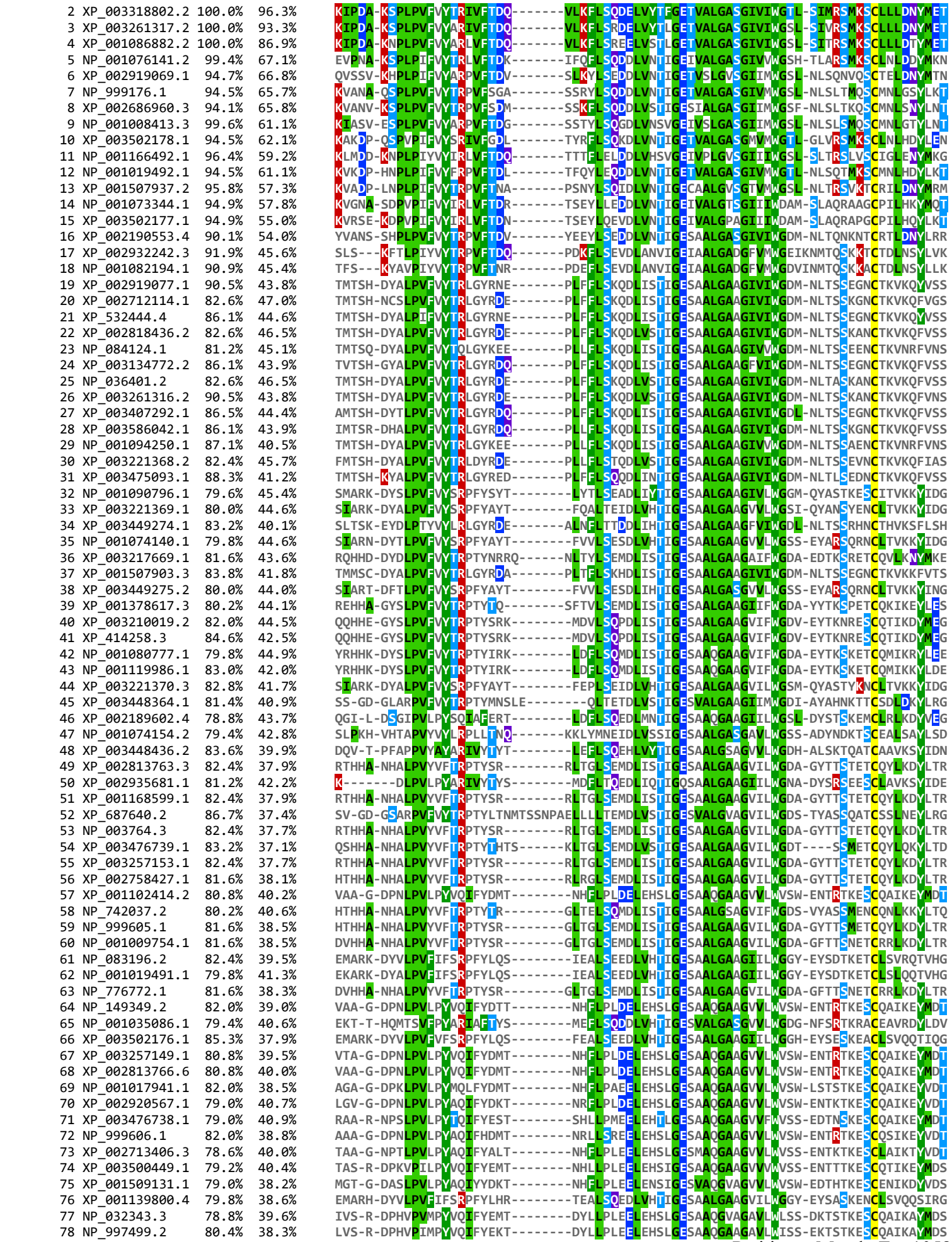

Reference sequence (1): NP_003108.2
Identities normalised by aligned length.
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1 NP_003108.2 100.0% 100.0%
2 XP_003318802.2 100.0% 96.3%
3 XP_003261317.2 100.0% 93.3%
4 XP_001086882.2 100.0% 86.9%
5 NP_001076141.2 99.4% 67.1%
6 XP_002919069.1 94.7% 66.8%
7 NP_999176.1 94.5% 65.7%
8 XP_002686960.3 94.1% 65.8%
9 NP_001008413.3 99.6% 61.1%
10 XP_003502178.1 94.5% 62.1%
11 NP_001166492.1 96.4% 59.2%
12 NP_001019492.1 94.5% 61.1%
13 XP_001507937.2 95.8% 57.3%
14 NP_001073344.1 94.9% 57.8%
15 XP_003502177.1 94.9% 55.0%
16 XP_002190553.4 90.1% 54.0%
17 XP_002932242.3 91.9% 45.6%
18 NP_001082194.1 90.9% 45.4%
19 XP_002919077.1 90.5% 43.8%
20 XP_002712114.1 82.6% 47.0%
21 XP_532444.4 86.1% 44.6%
22 XP_002818436.2 82.6% 46.5%
23 NP_084124.1 81.2% 45.1%
24 XP_003134772.2 86.1% 43.9%
25 NP_036401.2 82.6% 46.5%
26 XP_003261316.2 90.5% 43.8%
27 XP_003407292.1 86.5% 44.4%
28 XP_003586042.1 86.1% 43.9%
29 NP_001094250.1 87.1% 40.5%
30 XP_003221368.2 82.4% 45.7%
31 XP_003475093.1 88.3% 41.2%
32 NP_001090796.1 79.6% 45.4%
33 XP_003221369.1 80.0% 44.6%
34 XP_003449274.1 83.2% 40.1%
35 NP_001074140.1 79.8% 44.6%
36 XP_003217669.1 81.6% 43.6%
37 XP_001507903.3 83.8% 41.8%
38 XP_003449275.2 80.0% 44.0%
39 XP_001378617.3 80.2% 44.1%
40 XP_003210019.2 82.0% 44.5%
41 XP_414258.3 84.6% 42.5%
42 NP_001080777.1 79.8% 44.9%
43 NP_001119986.1 83.0% 42.0%
44 XP_003221370.3 82.8% 41.7%
45 XP_003448364.1 81.4% 40.9%
46 XP_002189602.4 78.8% 43.7%
47 NP_001074154.2 79.4% 42.8%
48 XP_003448436.2 83.6% 39.9%
49 XP_002813763.3 82.4% 37.9%
50 XP_002935681.1 81.2% 42.2%
51 XP_001168599.1 82.4% 37.9%
52 XP_687640.2 86.7% 37.4%
53 NP_003764.3 82.4% 37.7%
54 XP_003476739.1 83.2% 37.1%
55 XP_003257153.1 82.4% 37.7%
56 XP_002758427.1 81.6% 38.1%
57 XP_001102414.2 80.8% 40.2%
58 NP_742037.2 80.2% 40.6%
59 NP_999605.1 81.6% 38.5%
60 NP_001009754.1 81.6% 38.5%
61 NP_083196.2 82.4% 39.5%
62 NP_001019491.1 79.8% 41.3%
63 NP_776772.1 81.6% 38.3%
64 NP_149349.2 82.0% 39.0%
65 NP_001035086.1 79.4% 40.6%
66 XP_003502176.1 85.3% 37.9%
67 XP_003257149.1 80.8% 39.5%
68 XP_002813766.6 80.8% 40.0%
69 NP_001017941.1 82.0% 38.5%


70 XP_002920567.1 79.0% 40.7%
71 XP_003476738.1 79.0% 40.9%
72 NP_999606.1 82.0% 38.8%
73 XP_002713406.3 78.6% 40.0%
74 XP_003500449.1 79.2% 40.4%
75 XP_001509131.1 79.0% 38.2%
76 XP_001139800.4 79.8% 38.6%
77 NP_032343.3 78.8% 39.6%
78 NP_997499.2 80.4% 38.3%
79 XP_001168796.1 77.8% 35.4%
80 NP_997482.2 76.8% 36.7%
81 NP_001193181.1 77.8% 37.4%
82 NP_001186958.1 79.4% 35.4%
83 NP_999604.1 71.9% 39.4%
84 XP_001493753.3 71.9% 39.4%
85 NP_001121765.1 76.4% 38.0%
86 NP_821139.2 72.1% 38.6%
87 XP_002128103.1 72.9% 35.4%
88 XP_003642042.3 69.7% 37.2%
consensus/100%
consensus/90%
consensus/80%
consensus/70%
cov pid
1 NP_003108.2 100.0% 100.0%
2 XP_003318802.2 100.0% 96.3%
3 XP_003261317.2 100.0% 93.3%
4 XP_001086882.2 100.0% 86.9%
5 NP_001076141.2 99.4% 67.1%
6 XP_002919069.1 94.7% 66.8%
7 NP_999176.1 94.5% 65.7%
8 XP_002686960.3 94.1% 65.8%
9 NP_001008413.3 99.6% 61.1%
10 XP_003502178.1 94.5% 62.1%
11 NP_001166492.1 96.4% 59.2%
12 NP_001019492.1 94.5% 61.1%
13 XP_001507937.2 95.8% 57.3%
14 NP_001073344.1 94.9% 57.8%
15 XP_003502177.1 94.9% 55.0%
16 XP_002190553.4 90.1% 54.0%
17 XP_002932242.3 91.9% 45.6%
18 NP_001082194.1 90.9% 45.4%
19 XP_002919077.1 90.5% 43.8%
20 XP_002712114.1 82.6% 47.0%
21 XP_532444.4 86.1% 44.6%
22 XP_002818436.2 82.6% 46.5%
23 NP_084124.1 81.2% 45.1%
24 XP_003134772.2 86.1% 43.9%
25 NP_036401.2 82.6% 46.5%
26 XP_003261316.2 90.5% 43.8%
27 XP_003407292.1 86.5% 44.4%
28 XP_003586042.1 86.1% 43.9%
29 NP_001094250.1 87.1% 40.5%
30 XP_003221368.2 82.4% 45.7%
31 XP_003475093.1 88.3% 41.2%
32 NP_001090796.1 79.6% 45.4%
33 XP_003221369.1 80.0% 44.6%
34 XP_003449274.1 83.2% 40.1%
35 NP_001074140.1 79.8% 44.6%
36 XP_003217669.1 81.6% 43.6%
37 XP_001507903.3 83.8% 41.8%
38 XP_003449275.2 80.0% 44.0%
39 XP_001378617.3 80.2% 44.1%
40 XP_003210019.2 82.0% 44.5%
41 XP_414258.3 84.6% 42.5%
42 NP_001080777.1 79.8% 44.9%
43 NP_001119986.1 83.0% 42.0%
44 XP_003221370.3 82.8% 41.7%
45 XP_003448364.1 81.4% 40.9%
46 XP_002189602.4 78.8% 43.7%
47 NP_001074154.2 79.4% 42.8%
48 XP_003448436.2 83.6% 39.9%
49 XP_002813763.3 82.4% 37.9%
50 XP_002935681.1 81.2% 42.2%
51 XP_001168599.1 82.4% 37.9%
52 XP_687640.2 86.7% 37.4%
81 1 160

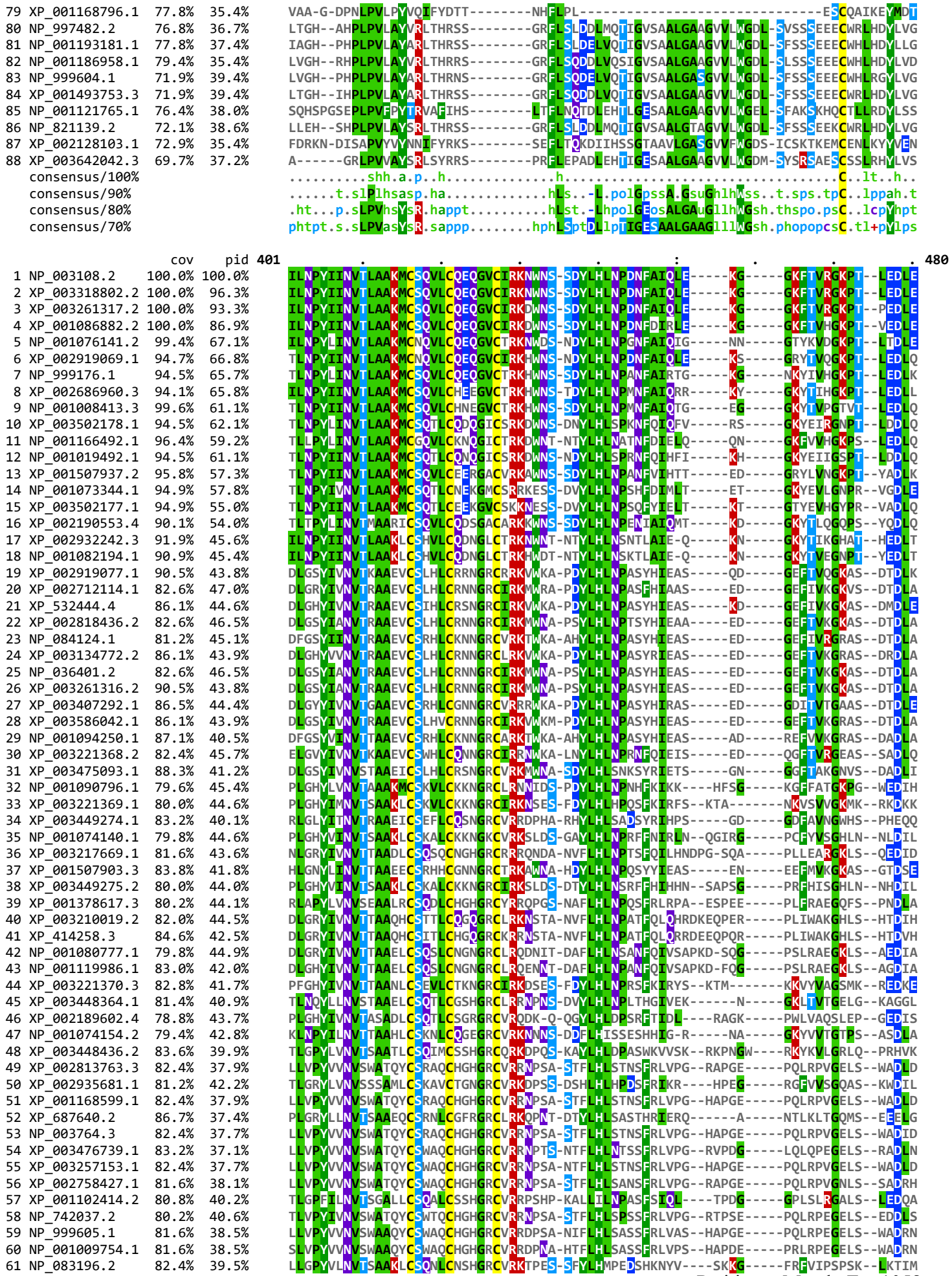

53 NP_003764.3 82.4% 37.7%
54 XP_003476739.1 83.2% 37.1%
55 XP_003257153.1 82.4% 37.7%
56 XP_002758427.1 81.6% 38.1%
57 XP_001102414.2 80.8% 40.2%
58 NP_742037.2 80.2% 40.6%
59 NP_999605.1 81.6% 38.5%
60 NP_001009754.1 81.6% 38.5%
61 NP_083196.2 82.4% 39.5%
62 NP_001019491.1 79.8% 41.3%
63 NP_776772.1 81.6% 38.3%
64 NP_149349.2 82.0% 39.0%
65 NP_001035086.1 79.4% 40.6%
66 XP_003502176.1 85.3% 37.9%
67 XP_003257149.1 80.8% 39.5%
68 XP_002813766.6 80.8% 40.0%
69 NP_001017941.1 82.0% 38.5%
70 XP_002920567.1 79.0% 40.7%
71 XP_003476738.1 79.0% 40.9%
72 NP_999606.1 82.0% 38.8%
73 XP_002713406.3 78.6% 40.0%
74 XP_003500449.1 79.2% 40.4%
75 XP_001509131.1 79.0% 38.2%
76 XP_001139800.4 79.8% 38.6%
77 NP_032343.3 78.8% 39.6%
78 NP_997499.2 80.4% 38.3%
79 XP_001168796.1 77.8% 35.4%
80 NP_997482.2 76.8% 36.7%
81 NP_001193181.1 77.8% 37.4%
82 NP_001186958.1 79.4% 35.4%
83 NP_999604.1 71.9% 39.4%
84 XP_001493753.3 71.9% 39.4%
85 NP_001121765.1 76.4% 38.0%
86 NP_821139.2 72.1% 38.6%
87 XP_002128103.1 72.9% 35.4%
88 XP_003642042.3 69.7% 37.2%
consensus/100%
consensus/90%
consensus/80%
consensus/70%
cov pid 161 2 240
1 NP_003108.2 100.0% 100.0%
2 XP_003318802.2 100.0% 96.3%
3 XP_003261317.2 100.0% 93.3%
4 XP_001086882.2 100.0% 86.9%
5 NP_001076141.2 99.4% 67.1%
6 XP_002919069.1 94.7% 66.8%
7 NP_999176.1 94.5% 65.7%
8 XP_002686960.3 94.1% 65.8%
9 NP_001008413.3 99.6% 61.1%
10 XP_003502178.1 94.5% 62.1%
11 NP_001166492.1 96.4% 59.2%
12 NP_001019492.1 94.5% 61.1%
13 XP_001507937.2 95.8% 57.3%
14 NP_001073344.1 94.9% 57.8%
15 XP_003502177.1 94.9% 55.0%
16 XP_002190553.4 90.1% 54.0%
17 XP_002932242.3 91.9% 45.6%
18 NP_001082194.1 90.9% 45.4%
19 XP_002919077.1 90.5% 43.8%
20 XP_002712114.1 82.6% 47.0%
21 XP_532444.4 86.1% 44.6%
22 XP_002818436.2 82.6% 46.5%
23 NP_084124.1 81.2% 45.1%
24 XP_003134772.2 86.1% 43.9%
25 NP_036401.2 82.6% 46.5%
26 XP_003261316.2 90.5% 43.8%
27 XP_003407292.1 86.5% 44.4%
28 XP_003586042.1 86.1% 43.9%
29 NP_001094250.1 87.1% 40.5%
30 XP_003221368.2 82.4% 45.7%
31 XP_003475093.1 88.3% 41.2%
32 NP_001090796.1 79.6% 45.4%
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34 XP_003449274.1 83.2% 40.1%
35 NP_001074140.1 79.8% 44.6%

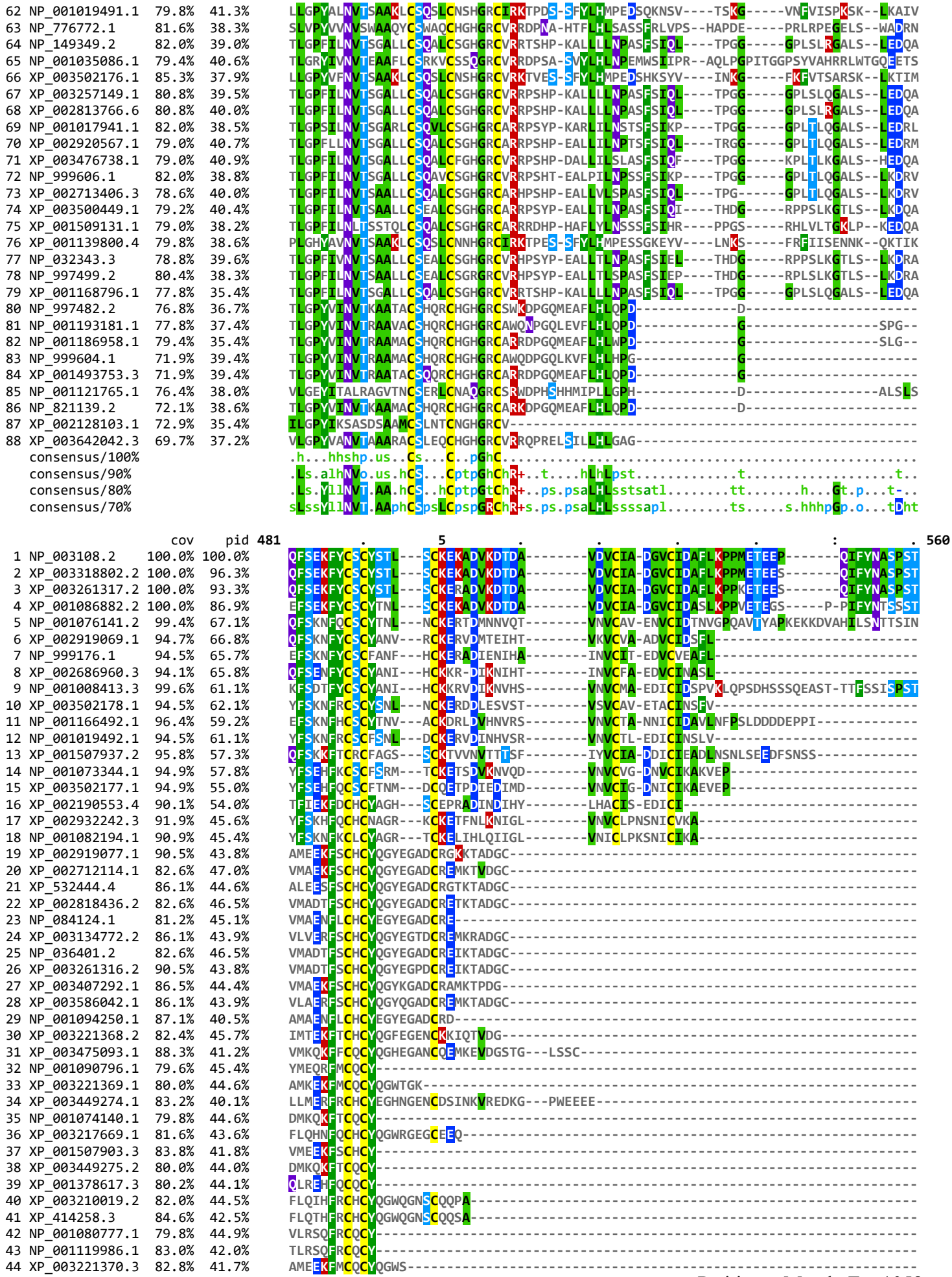

cov pid
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37 XP_001507903.3 83.8% 41.8%
38 XP_003449275.2 80.0% 44.0%
39 XP_001378617.3 80.2% 44.1%
40 XP_003210019.2 82.0% 44.5%
41 XP_414258.3 84.6% 42.5%
42 NP_001080777.1 79.8% 44.9%
43 NP_001119986.1 83.0% 42.0%
44 XP_003221370.3 82.8% 41.7%
45 XP_003448364.1 81.4% 40.9%
46 XP_002189602.4 78.8% 43.7%
47 NP_001074154.2 79.4% 42.8%
48 XP_003448436.2 83.6% 39.9%
49 XP_002813763.3 82.4% 37.9%
50 XP_002935681.1 81.2% 42.2%
51 NP_001168599.1 82.4% 37.9%
52 XP_687640.2 86.7% 37.4%
53 NP_003764.3 82.4% 37.7%
54 XP_003476739.1 83.2% 37.1%
55 XP_003257153.1 82.4% 37.7%
56 XP_002758427.1 81.6% 38.1%
57 XP_001102414.2 80.8% 40.2%
58 NP_742037.2 80.2% 40.6%
59 NP_999605.1 81.6% 38.5%
60 NP_001009754.1 81.6% 38.5%
61 NP_083196.2 82.4% 39.5%
62 NP_001019491.1 79.8% 41.3%
63 NP_776772.1 81.6% 38.3%
64 NP_149349.2 82.0% 39.0%
65 NP_001035086.1 79.4% 40.6%
66 XP_003502176.1 85.3% 37.9%
67 XP_003257149.1 80.8% 39.5%
68 XP_002813766.6 80.8% 40.0%
69 NP_001017941.1 82.0% 38.5%
70 XP_002920567.1 79.0% 40.7%
71 XP_003476738.1 79.0% 40.9%
72 NP_999606.1 82.0% 38.8%
73 XP_002713406.3 78.6% 40.0%
74 XP_003500449.1 79.2% 40.4%
75 XP_001509131.1 79.0% 38.2%
76 XP_001139800.4 79.8% 38.6%
77 NP_032343.3 78.8% 39.6%
78 NP_997499.2 80.4% 38.3%
79 XP_001168796.1 77.8% 35.4%
80 NP_997482.2 76.8% 36.7%
81 NP_001193181.1 77.8% 37.4%
82 NP_001186958.1 79.4% 35.4%
83 NP_999604.1 71.9% 39.4%
84 XP_001493753.3 71.9% 39.4%
85 NP_001121765.1 76.4% 38.0%
86 NP_821139.2 72.1% 38.6%
87 XP_002128103.1 72.9% 35.4%
88 XP_003642042.3 69.7% 37.2%
consensus/100%
consensus/90%
consensus/80%
consensus/70%
cov pid 241 : . . . . 3 . . 320
1 NP_003108.2 100.0% 100.0%
2 XP_003318802.2 100.0% 96.3%
3 XP_003261317.2 100.0% 93.3%
4 XP_001086882.2 100.0% 86.9%
5 NP_001076141.2 99.4% 67.1%
6 XP_002919069.1 94.7% 66.8%
7 NP_999176.1 94.5% 65.7%
8 XP_002686960.3 94.1% 65.8%
9 NP_001008413.3 99.6% 61.1%
10 XP_003502178.1 94.5% 62.1%
11 NP_001166492.1 96.4% 59.2%
12 NP_001019492.1 94.5% 61.1%
13 XP_001507937.2 95.8% 57.3%
14 NP_001073344.1 94.9% 57.8%
15 XP_003502177.1 94.9% 55.0%
16 XP_002190553.4 90.1% 54.0%
17 XP_002932242.3 91.9% 45.6%
18 NP_001082194.1 90.9% 45.4%

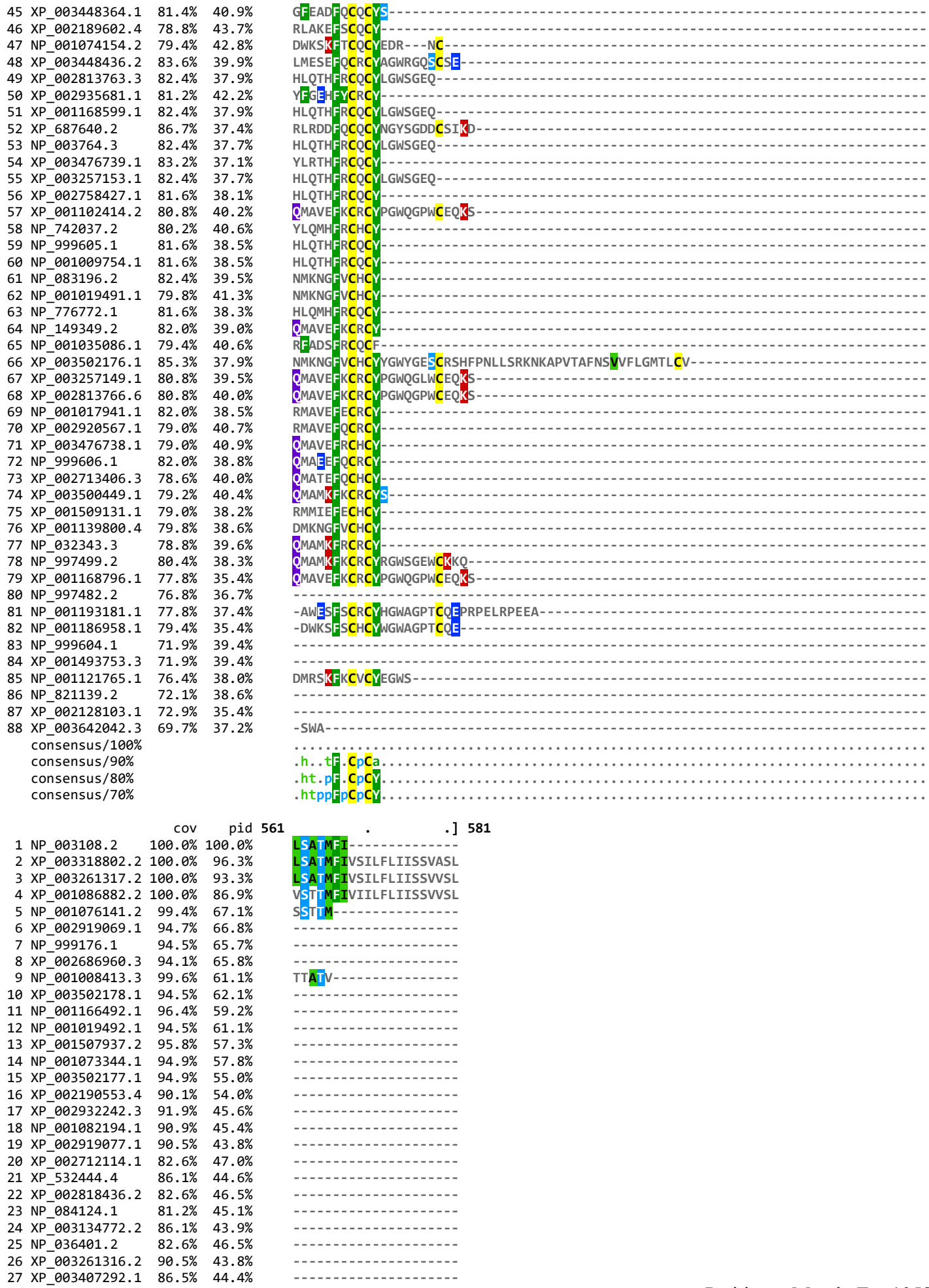

19 XP_002919077.1 90.5% 43.8%
20 XP_002712114.1 82.6% 47.0%
21 XP_532444.4 86.1% 44.6%
22 XP_002818436.2 82.6% 46.5%
23 NP_084124.1 81.2% 45.1%
24 XP_003134772.2 86.1% 43.9%
25 NP_036401.2 82.6% 46.5%
26 XP_003261316.2 90.5% 43.8%
27 XP_003407292.1 86.5% 44.4%
28 XP_003586042.1 86.1% 43.9%
29 NP_001094250.1 87.1% 40.5%
30 XP_003221368.2 82.4% 45.7%
31 XP_003475093.1 88.3% 41.2%
32 NP_001090796.1 79.6% 45.4%
33 XP_003221369.1 80.0% 44.6%
34 XP_003449274.1 83.2% 40.1%
35 NP_001074140.1 79.8% 44.6%
36 XP_003217669.1 81.6% 43.6%
37 XP_001507903.3 83.8% 41.8%
38 XP_003449275.2 80.0% 44.0%
39 XP_001378617.3 80.2% 44.1%
40 XP_003210019.2 82.0% 44.5%
41 XP_414258.3 84.6% 42.5%
42 NP_001080777.1 79.8% 44.9%
43 NP_001119986.1 83.0% 42.0%
44 XP_003221370.3 82.8% 41.7%
45 XP_003448364.1 81.4% 40.9%
46 XP_002189602.4 78.8% 43.7%
47 NP_001074154.2 79.4% 42.8%
48 XP_003448436.2 83.6% 39.9%
49 XP_002813763.3 82.4% 37.9%
50 XP_002935681.1 81.2% 42.2%
51 XP_001168599.1 82.4% 37.9%
52 XP_687640.2 86.7% 37.4%
53 NP_003764.3 82.4% 37.7%
54 XP_003476739.1 83.2% 37.1%
55 XP_003257153.1 82.4% 37.7%
56 XP_002758427.1 81.6% 38.1%
57 XP_001102414.2 80.8% 40.2%
58 NP_742037.2 80.2% 40.6%
59 NP_999605.1 81.6% 38.5%
60 NP_001009754.1 81.6% 38.5%
61 NP_083196.2 82.4% 39.5%
62 NP_001019491.1 79.8% 41.3%
63 NP_776772.1 81.6% 38.3%
64 NP_149349.2 82.0% 39.0%
65 NP_001035086.1 79.4% 40.6%
66 XP_003502176.1 85.3% 37.9%
67 XP_003257149.1 80.8% 39.5%
68 XP_002813766.6 80.8% 40.0%
69 NP_001017941.1 82.0% 38.5%
70 XP_002920567.1 79.0% 40.7%
71 XP_003476738.1 79.0% 40.9%
72 NP_999606.1 82.0% 38.8%
73 XP_002713406.3 78.6% 40.0%
74 XP_003500449.1 79.2% 40.4%
75 XP_001509131.1 79.0% 38.2%
76 XP_001139800.4 79.8% 38.6%
77 NP_032343.3 78.8% 39.6%
78 NP_997499.2 80.4% 38.3%
79 XP_001168796.1 77.8% 35.4%
80 NP_997482.2 76.8% 36.7%
81 NP_001193181.1 77.8% 37.4%
82 NP_001186958.1 79.4% 35.4%
83 NP_999604.1 71.9% 39.4%
84 XP_001493753.3 71.9% 39.4%
85 NP_001121765.1 76.4% 38.0%
86 NP_821139.2 72.1% 38.6%
87 XP_002128103.1 72.9% 35.4%
88 XP_003642042.3 69.7% 37.2%
consensus/100%
consensus/90%
consensus/80%
consensus/70%
cov pid
1 NP_003108.2 100.0% 100.0%



Petitioner Merck, Ex. 1058, p. 6


79 XP_001168796.1 77.8% 35.4%
80 NP_997482.2 76.8% 36.7%
81 NP_001193181.1 77.8% 37.4%
82 NP_001186958.1 79.4% 35.4%
83 NP_999604.1 71.9% 39.4%
84 XP_001493753.3 71.9% 39.4%
85 NP_001121765.1 76.4% 38.0%
86 NP_821139.2 72.1% 38.6%
87 XP_002128103.1 72.9% 35.4%
88 XP_003642042.3 69.7% 37.2%
consensus/100%
consensus/90%
consensus/80%
consensus/70%
cov pid
401
480
1 NP_003108.2 100.0% 100.0%
2 XP_003318802.2 100.0% 96.3%
3 XP_003261317.2 100.0% 93.3%
4 XP_001086882.2 100.0% 86.9%
5 NP_001076141.2 99.4% 67.1%
6 XP_002919069.1 94.7% 66.8%
7 NP_999176.1 94.5% 65.7%
8 XP_002686960.3 94.1% 65.8%
9 NP_001008413.3 99.6% 61.1%
10 XP_003502178.1 94.5% 62.1%
11 NP_001166492.1 96.4% 59.2%
12 NP_001019492.1 94.5% 61.1%
13 XP_001507937.2 95.8% 57.3%
14 NP_001073344.1 94.9% 57.8%
15 XP_003502177.1 94.9% 55.0%
16 XP_002190553.4 90.1% 54.0%
17 XP_002932242.3 91.9% 45.6%
18 NP_001082194.1 90.9% 45.4%
19 XP_002919077.1 90.5% 43.8%
20 XP_002712114.1 82.6% 47.0%
21 XP_532444.4 86.1% 44.6%
22 XP_002818436.2 82.6% 46.5%
23 NP_084124.1 81.2% 45.1%
24 XP_003134772.2 86.1% 43.9%
25 NP_036401.2 82.6% 46.5%
26 XP_003261316.2 90.5% 43.8%
27 XP_003407292.1 86.5% 44.4%
28 XP_003586042.1 86.1% 43.9%
29 NP_001094250.1 87.1% 40.5%
30 XP_003221368.2 82.4% 45.7%
31 XP_003475093.1 88.3% 41.2%
32 NP_001090796.1 79.6% 45.4%
33 XP_003221369.1 80.0% 44.6%
34 XP_003449274.1 83.2% 40.1%
35 NP_001074140.1 79.8% 44.6%
36 XP_003217669.1 81.6% 43.6%
37 XP_001507903.3 83.8% 41.8%
38 XP_003449275.2 80.0% 44.0%
39 XP_001378617.3 80.2% 44.1%
40 XP_003210019.2 82.0% 44.5%
41 XP_414258.3 84.6% 42.5%
42 NP_001080777.1 79.8% 44.9%
43 NP_001119986.1 83.0% 42.0%
44 XP_003221370.3 82.8% 41.7%
45 XP_003448364.1 81.4% 40.9%
46 XP_002189602.4 78.8% 43.7%
47 NP_001074154.2 79.4% 42.8%
48 XP_003448436.2 83.6% 39.9%
49 XP_002813763.3 82.4% 37.9%
50 XP_002935681.1 81.2% 42.2%
51 XP_001168599.1 82.4% 37.9%
52 XP_687640.2 86.7% 37.4%
53 NP_003764.3 82.4% 37.7%
54 XP_003476739.1 83.2% 37.1%
55 XP_003257153.1 82.4% 37.7%
56 XP_002758427.1 81.6% 38.1%
57 XP_001102414.2 80.8% 40.2%
58 NP_742037.2 80.2% 40.6%
59 NP_999605.1 81.6% 38.5%
60 NP_001009754.1 81.6% 38.5%
61 NP_083196.2 82.4% 39.5%


62 NP_001019491.1 79.8% 41.3%
63 NP_776772.1 81.6% 38.3%
64 NP_149349.2 82.0% 39.0%
65 NP_001035086.1 79.4% 40.6%
66 XP_003502176.1 85.3% 37.9%
67 XP_003257149.1 80.8% 39.5%
68 XP_002813766.6 80.8% 40.0%
69 NP_001017941.1 82.0% 38.5%
70 XP_002920567.1 79.0% 40.7%
71 XP_003476738.1 79.0% 40.9%
72 NP_999606.1 82.0% 38.8%
73 XP_002713406.3 78.6% 40.0%
74 XP_003500449.1 79.2% 40.4%
75 XP_001509131.1 79.0% 38.2%
76 XP_001139800.4 79.8% 38.6%
77 NP_032343.3 78.8% 39.6%
78 NP_997499.2 80.4% 38.3%
79 XP_001168796.1 77.8% 35.4%
80 NP_997482.2 76.8% 36.7%
81 NP_001193181.1 77.8% 37.4%
82 NP_001186958.1 79.4% 35.4%
83 NP_999604.1 71.9% 39.4%
84 XP_001493753.3 71.9% 39.4%
85 NP_001121765.1 76.4% 38.0%
86 NP_821139.2 72.1% 38.6%
87 XP_002128103.1 72.9% 35.4%
88 XP_003642042.3 69.7% 37.2%
consensus/100%
consensus/90%
consensus/80%
consensus/70%
cov pid
481
5
560
1 NP_003108.2 100.0% 100.0%
2 XP_003318802.2 100.0% 96.3%
3 XP_003261317.2 100.0% 93.3%
4 XP_001086882.2 100.0% 86.9%
5 NP_001076141.2 99.4% 67.1%
6 XP_002919069.1 94.7% 66.8%
7 NP_999176.1 94.5% 65.7%
8 XP_002686960.3 94.1% 65.8%
9 NP_001008413.3 99.6% 61.1%
10 XP_003502178.1 94.5% 62.1%
11 NP_001166492.1 96.4% 59.2%
12 NP_001019492.1 94.5% 61.1%
13 XP_001507937.2 95.8% 57.3%
14 NP_001073344.1 94.9% 57.8%
15 XP_003502177.1 94.9% 55.0%
16 XP_002190553.4 90.1% 54.0%
17 XP_002932242.3 91.9% 45.6%
18 NP_001082194.1 90.9% 45.4%
19 XP_002919077.1 90.5% 43.8%
20 XP_002712114.1 82.6% 47.0%
21 XP_532444.4 86.1% 44.6%
22 XP_002818436.2 82.6% 46.5%
23 NP_084124.1 81.2% 45.1%
24 XP_003134772.2 86.1% 43.9%
25 NP_036401.2 82.6% 46.5%
26 XP_003261316.2 90.5% 43.8%
27 XP_003407292.1 86.5% 44.4%
28 XP_003586042.1 86.1% 43.9%
29 NP_001094250.1 87.1% 40.5%
30 XP_003221368.2 82.4% 45.7%
31 XP_003475093.1 88.3% 41.2%
32 NP_001090796.1 79.6% 45.4%
33 XP_003221369.1 80.0% 44.6%
34 XP_003449274.1 83.2% 40.1%
35 NP_001074140.1 79.8% 44.6%
36 XP_003217669.1 81.6% 43.6%
37 XP_001507903.3 83.8% 41.8%
38 XP_003449275.2 80.0% 44.0%
39 XP_001378617.3 80.2% 44.1%
40 XP_003210019.2 82.0% 44.5%
41 XP_414258.3 84.6% 42.5%
42 NP_001080777.1 79.8% 44.9%
43 NP_001119986.1 83.0% 42.0%
44 XP_003221370.3 82.8% 41.7%


45 XP_003448364.1 81.4% 40.9%
46 XP_002189602.4 78.8% 43.7%
47 NP_001074154.2 79.4% 42.8%
48 XP_003448436.2 83.6% 39.9%
49 XP_002813763.3 82.4% 37.9%
50 XP_002935681.1 81.2% 42.2%
51 XP_001168599.1 82.4% 37.9%
52 XP_687640.2 86.7% 37.4%
53 NP_003764.3 82.4% 37.7%
54 XP_003476739.1 83.2% 37.1%
55 XP_003257153.1 82.4% 37.7%
56 XP_002758427.1 81.6% 38.1%
57 XP_001102414.2 80.8% 40.2%
58 NP_742037.2 80.2% 40.6%
59 NP_999605.1 81.6% 38.5%
60 NP_001009754.1 81.6% 38.5%
61 NP_083196.2 82.4% 39.5%
62 NP_001019491.1 79.8% 41.3%
63 NP_776772.1 81.6% 38.3%
64 NP_149349.2 82.0% 39.0%
65 NP_001035086.1 79.4% 40.6%
66 XP_003502176.1 85.3% 37.9%
67 XP_003257149.1 80.8% 39.5%
68 XP_002813766.6 80.8% 40.0%
69 NP_001017941.1 82.0% 38.5%
70 XP_002920567.1 79.0% 40.7%
71 XP_003476738.1 79.0% 40.9%
72 NP_999606.1 82.0% 38.8%
73 XP_002713406.3 78.6% 40.0%
74 XP_003500449.1 79.2% 40.4%
75 XP_001509131.1 79.0% 38.2%
76 XP_001139800.4 79.8% 38.6%
77 NP_032343.3 78.8% 39.6%
78 NP_997499.2 80.4% 38.3%
79 XP_001168796.1 77.8% 35.4%
80 NP_997482.2 76.8% 36.7%
81 NP_001193181.1 77.8% 37.4%
82 NP_001186958.1 79.4% 35.4%
83 NP_999604.1 71.9% 39.4%
84 XP_001493753.3 71.9% 39.4%
85 NP_001121765.1 76.4% 38.0%
86 NP_821139.2 72.1% 38.6%
87 XP_002128103.1 72.9% 35.4%
88 XP_003642042.3 69.7% 37.2%
consensus/100%
consensus/90%
consensus/80%
consensus/70%
cov pid 561 . .] 581
1 NP_003108.2 100.0% 100.0%
2 XP_003318802.2 100.0% 96.3%
3 XP_003261317.2 100.0% 93.3%
4 XP_001086882.2 100.0% 86.9%
5 NP_001076141.2 99.4% 67.1%
6 XP_002919069.1 94.7% 66.8%
7 NP_999176.1 94.5% 65.7%
8 XP_002686960.3 94.1% 65.8%
9 NP_001008413.3 99.6% 61.1%
10 XP_003502178.1 94.5% 62.1%
11 NP_001166492.1 96.4% 59.2%
12 NP_001019492.1 94.5% 61.1%
13 XP_001507937.2 95.8% 57.3%
14 NP_001073344.1 94.9% 57.8%
15 XP_003502177.1 94.9% 55.0%
16 XP_002190553.4 90.1% 54.0%
17 XP_002932242.3 91.9% 45.6%
18 NP_001082194.1 90.9% 45.4%
19 XP_002919077.1 90.5% 43.8%
20 XP_002712114.1 82.6% 47.0%
21 XP_532444.4 86.1% 44.6%
22 XP_002818436.2 82.6% 46.5%
23 NP_084124.1 81.2% 45.1%
24 XP_003134772.2 86.1% 43.9%
25 NP_036401.2 82.6% 46.5%
26 XP_003261316.2 90.5% 43.8%
27 XP_003407292.1 86.5% 44.4%

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28 XP_003586042.1  86.1%  43.9%     --------------------
29 NP_001094250.1  87.1%  40.5%     --------------------
30 XP_003221368.2  82.4%  45.7%     --------------------
31 XP_003475093.1  88.3%  41.2%     --------------------
32 NP_001090796.1  79.6%  45.4%     --------------------
33 XP_003221369.1  80.0%  44.6%     --------------------
34 XP_003449274.1  83.2%  40.1%     --------------------
35 NP_001074140.1  79.8%  44.6%     --------------------
36 XP_003217669.1  81.6%  43.6%     --------------------
37 XP_001507903.3  83.8%  41.8%     --------------------
38 XP_003449275.2  80.0%  44.0%     --------------------
39 XP_001378617.3  80.2%  44.1%     --------------------
40 XP_003210019.2  82.0%  44.5%     --------------------
41 XP_414258.3     84.6%  42.5%     --------------------
42 NP_001080777.1  79.8%  44.9%     --------------------
43 NP_001119986.1  83.0%  42.0%     --------------------
44 XP_003221370.3  82.8%  41.7%     --------------------
45 XP_003448364.1  81.4%  40.9%     --------------------
46 XP_002189602.4  78.8%  43.7%     --------------------
47 NP_001074154.2  79.4%  42.8%     --------------------
48 XP_003448436.2  83.6%  39.9%     --------------------
49 XP_002813763.3  82.4%  37.9%     --------------------
50 XP_002935681.1  81.2%  42.2%     --------------------
51 XP_001168599.1  82.4%  37.9%     --------------------
52 XP_687640.2     86.7%  37.4%     --------------------
53 NP_003764.3     82.4%  37.7%     --------------------
54 XP_003476739.1  83.2%  37.1%     --------------------
55 XP_003257153.1  82.4%  37.7%     --------------------
56 XP_002758427.1  81.6%  38.1%     --------------------
57 XP_001102414.2  80.8%  40.2%     --------------------
58 NP_742037.2     80.2%  40.6%     --------------------
59 NP_999605.1     81.6%  38.5%     --------------------
60 NP_001009754.1  81.6%  38.5%     --------------------
61 NP_083196.2     82.4%  39.5%     --------------------
62 NP_001019491.1  79.8%  41.3%     --------------------
63 NP_776772.1     81.6%  38.3%     --------------------
64 NP_149349.2     82.0%  39.0%     --------------------
65 NP_001035086.1  79.4%  40.6%     --------------------
66 XP_003502176.1  85.3%  37.9%     --------------------
67 XP_003257149.1  80.8%  39.5%     --------------------
68 XP_002813766.6  80.8%  40.0%     --------------------
69 NP_001017941.1  82.0%  38.5%     --------------------
70 XP_002920567.1  79.0%  40.7%     --------------------
71 XP_003476738.1  79.0%  40.9%     --------------------
72 NP_999606.1     82.0%  38.8%     --------------------
73 XP_002713406.3  78.6%  40.0%     --------------------
74 XP_003500449.1  79.2%  40.4%     --------------------
75 XP_001509131.1  79.0%  38.2%     --------------------
76 XP_001139800.4  79.8%  38.6%     --------------------
77 NP_032343.3     78.8%  39.6%     --------------------
78 NP_997499.2     80.4%  38.3%     --------------------
79 XP_001168796.1  77.8%  35.4%     --------------------
80 NP_997482.2     76.8%  36.7%     --------------------
81 NP_001193181.1  77.8%  37.4%     --------------------
82 NP_001186958.1  79.4%  35.4%     --------------------
83 NP_999604.1     71.9%  39.4%     --------------------
84 XP_001493753.3  71.9%  39.4%     --------------------
85 NP_001121765.1  76.4%  38.0%     --------------------
86 NP_821139.2     72.1%  38.6%     --------------------
87 XP_002128103.1  72.9%  35.4%     --------------------
88 XP_003642042.3  69.7%  37.2%     --------------------
   consensus/100%                   ....................
   consensus/90%                    ....................
   consensus/80%                    ....................
   consensus/70%                    ....................
```

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