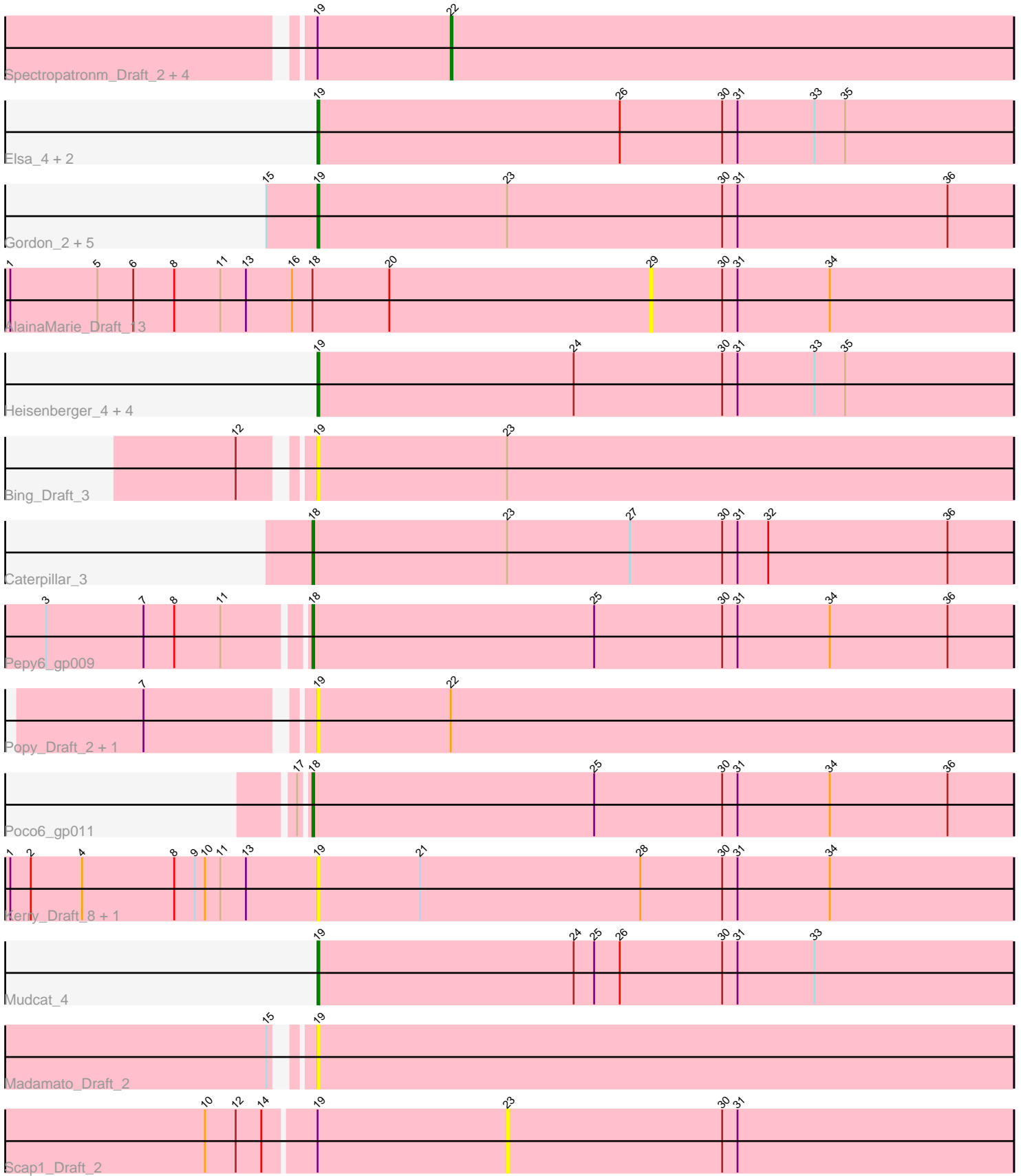


Pham 6711



Note: In the above figure, yellow indicates the location of called starts comprised solely of computational predictions (i.e. auto-annotations by Glimmer/GeneMark), green indicates the location of called starts with at least 1 manual gene annotation.

Pham 6711 Report

This analysis was run 05/29/17.

Pham number 6711 has 31 members, 11 are drafts.

Phages represented in each track:

- Track 1 : Spectropatronm_Draft_2, Rima_2, Namu_Draft_2, IceWarrior_Draft_2, OlympicHelado_2
- Track 2 : Elsa_4, Arcadia_4, Nason_4
- Track 3 : Gordon_2, CapnMurica_3, Teacup_3, Niktson_2, ElephantMan_2, Nightmare_2
- Track 4 : AlainaMarie_Draft_13
- Track 5 : Heisenberger_4, Tribby_4, Correa_4, Circum_4, Cheesy_4
- Track 6 : Bing_Draft_3
- Track 7 : Caterpillar_3
- Track 8 : Pepy6_gp009
- Track 9 : Popy_Draft_2, DrGrey_Draft_2
- Track 10 : Poco6_gp011
- Track 11 : Kerry_Draft_8, Gravy_Draft_8
- Track 12 : Mudcat_4
- Track 13 : Madamato_Draft_2
- Track 14 : Scap1_Draft_2

Summary of Final Annotations (Info on gene starts based on numbers in diagram):

The start number called the most often in the published annotations is start number 19, it was called in 15 of the 20 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Elsa_4, Gordon_2, Heisenberger_4, CapnMurica_3, Bing_Draft_3, Tribby_4, Teacup_3, Popy_Draft_2, Kerry_Draft_8, Mudcat_4, Madamato_Draft_2, Arcadia_4, Correa_4, DrGrey_Draft_2, Nason_4, Niktson_2, ElephantMan_2, Circum_4, Gravy_Draft_8, Cheesy_4, Nightmare_2,

Genes that have the "Most Annotated" start but do not call it:

- Spectropatronm_Draft_2, Rima_2, Namu_Draft_2, IceWarrior_Draft_2, Scap1_Draft_2, OlympicHelado_2,

Genes that do not have the "Most Annotated" start:

•AlainaMarie_Draft_13, Caterpillar_3, Pepy6_gp009, POCO6_gp011,

Summary by start number:

• Start number 18 is called in: Caterpillar_3, Pepy6_gp009, POCO6_gp011,

Percent with start 18 called: 9.7%

• Start number 19 is called in: Elsa_4, Gordon_2, Heisenberger_4, CapnMurica_3, Bing_Draft_3, Tribby_4, Teacup_3, Popy_Draft_2, Kerry_Draft_8, Mudcat_4, Madamoto_Draft_2, Arcadia_4, Correa_4, DrGrey_Draft_2, Nason_4, Niktson_2, ElephantMan_2, Circum_4, Gravy_Draft_8, Cheesy_4, Nightmare_2,

Percent with start 19 called: 67.7%

• Start number 22 is called in: Spectropatronm_Draft_2, Rima_2, Namo_Draft_2, IceWarrior_Draft_2, OlympicHelado_2,

Percent with start 22 called: 16.1%

• Start number 23 is called in: Scap1_Draft_2,

Percent with start 23 called: 3.2%

• Start number 29 is called in: AlainaMarie_Draft_13,

Percent with start 29 called: 3.2%

Gene Information:

Gene: AlainaMarie_Draft_13 Start: 6416, Stop: 6628

Candidate Starts for AlainaMarie_Draft_13:

[(1, 6041), (5, 6092), (6, 6113), (8, 6137), (11, 6164), (13, 6179), (16, 6206), (18, 6218), (20, 6263), (29, 6416), (30, 6458), (31, 6467), (34, 6521)]

Gene: Arcadia_4 Start: 1466, Stop: 1873

Candidate Starts for Arcadia_4:

[(19, 1466), (26, 1643), (30, 1703), (31, 1712), (33, 1757), (35, 1775)]

Gene: Bing_Draft_3 Start: 495, Stop: 902

Candidate Starts for Bing_Draft_3:

[(12, 459), (19, 495), (23, 606)]

Gene: CapnMurica_3 Start: 2361, Stop: 2768

Candidate Starts for CapnMurica_3:

[(15, 2331), (19, 2361), (23, 2472), (30, 2598), (31, 2607), (36, 2730)]

Gene: Caterpillar_3 Start: 1189, Stop: 1599

Candidate Starts for Caterpillar_3:

[(18, 1189), (23, 1303), (27, 1375), (30, 1429), (31, 1438), (32, 1456), (36, 1561)]

Gene: Cheesy_4 Start: 1076, Stop: 1483

Candidate Starts for Cheesy_4:

[(19, 1076), (24, 1226), (30, 1313), (31, 1322), (33, 1367), (35, 1385)]

Gene: Circum_4 Start: 1076, Stop: 1483

Candidate Starts for Circum_4:

[(19, 1076), (24, 1226), (30, 1313), (31, 1322), (33, 1367), (35, 1385)]

Gene: Correa_4 Start: 1076, Stop: 1483

Candidate Starts for Correa_4:

[(19, 1076), (24, 1226), (30, 1313), (31, 1322), (33, 1367), (35, 1385)]

Gene: DrGrey_Draft_2 Start: 485, Stop: 892

Candidate Starts for DrGrey_Draft_2:

[(7, 395), (19, 485), (22, 563)]

Gene: ElephantMan_2 Start: 1121, Stop: 1528

Candidate Starts for ElephantMan_2:

[(15, 1091), (19, 1121), (23, 1232), (30, 1358), (31, 1367), (36, 1490)]

Gene: Elsa_4 Start: 1466, Stop: 1873

Candidate Starts for Elsa_4:

[(19, 1466), (26, 1643), (30, 1703), (31, 1712), (33, 1757), (35, 1775)]

Gene: Gordon_2 Start: 962, Stop: 1369

Candidate Starts for Gordon_2:

[(15, 932), (19, 962), (23, 1073), (30, 1199), (31, 1208), (36, 1331)]

Gene: Gravy_Draft_8 Start: 3096, Stop: 3503

Candidate Starts for Gravy_Draft_8:

[(1, 2916), (2, 2928), (4, 2958), (8, 3012), (9, 3024), (10, 3030), (11, 3039), (13, 3054), (19, 3096), (21, 3156), (28, 3285), (30, 3333), (31, 3342), (34, 3396)]

Gene: Heisenberger_4 Start: 1076, Stop: 1483

Candidate Starts for Heisenberger_4:

[(19, 1076), (24, 1226), (30, 1313), (31, 1322), (33, 1367), (35, 1385)]

Gene: IceWarrior_Draft_2 Start: 563, Stop: 892

Candidate Starts for IceWarrior_Draft_2:

[(19, 485), (22, 563)]

Gene: Kerry_Draft_8 Start: 3096, Stop: 3503

Candidate Starts for Kerry_Draft_8:

[(1, 2916), (2, 2928), (4, 2958), (8, 3012), (9, 3024), (10, 3030), (11, 3039), (13, 3054), (19, 3096), (21, 3156), (28, 3285), (30, 3333), (31, 3342), (34, 3396)]

Gene: Madamato_Draft_2 Start: 486, Stop: 893

Candidate Starts for Madamato_Draft_2:

[(15, 468), (19, 486)]

Gene: Mudcat_4 Start: 1084, Stop: 1491

Candidate Starts for Mudcat_4:

[(19, 1084), (24, 1234), (25, 1246), (26, 1261), (30, 1321), (31, 1330), (33, 1375)]

Gene: Namu_Draft_2 Start: 563, Stop: 892

Candidate Starts for Namu_Draft_2:

[(19, 485), (22, 563)]

Gene: Nason_4 Start: 1466, Stop: 1873

Candidate Starts for Nason_4:

[(19, 1466), (26, 1643), (30, 1703), (31, 1712), (33, 1757), (35, 1775)]

Gene: Nightmare_2 Start: 1128, Stop: 1535

Candidate Starts for Nightmare_2:

[(15, 1098), (19, 1128), (23, 1239), (30, 1365), (31, 1374), (36, 1497)]

Gene: Niktson_2 Start: 1121, Stop: 1528

Candidate Starts for Niktson_2:

[(15, 1091), (19, 1121), (23, 1232), (30, 1358), (31, 1367), (36, 1490)]

Gene: OlympicHelado_2 Start: 563, Stop: 892

Candidate Starts for OlympicHelado_2:

[(19, 485), (22, 563)]

Gene: Pepy6_gp009 Start: 8541, Stop: 8951

Candidate Starts for Pepy6_gp009:

[(3, 8391), (7, 8448), (8, 8466), (11, 8493), (18, 8541), (25, 8706), (30, 8781), (31, 8790), (34, 8844), (36, 8913)]

Gene: Poco6_gp011 Start: 11972, Stop: 12382

Candidate Starts for Poco6_gp011:

[(17, 11966), (18, 11972), (25, 12137), (30, 12212), (31, 12221), (34, 12275), (36, 12344)]

Gene: Popy_Draft_2 Start: 485, Stop: 892

Candidate Starts for Popy_Draft_2:

[(7, 395), (19, 485), (22, 563)]

Gene: Rima_2 Start: 563, Stop: 892

Candidate Starts for Rima_2:

[(19, 485), (22, 563)]

Gene: Scap1_Draft_2 Start: 605, Stop: 901

Candidate Starts for Scap1_Draft_2:

[(10, 431), (12, 449), (14, 464), (19, 494), (23, 605), (30, 731), (31, 740)]

Gene: Spectropatronm_Draft_2 Start: 563, Stop: 892
Candidate Starts for Spectropatronm_Draft_2:
[(19, 485), (22, 563)]

Gene: Teacup_3 Start: 1109, Stop: 1516
Candidate Starts for Teacup_3:
[(15, 1079), (19, 1109), (23, 1220), (30, 1346), (31, 1355), (36, 1478)]

Gene: Tribby_4 Start: 1076, Stop: 1483
Candidate Starts for Tribby_4:
[(19, 1076), (24, 1226), (30, 1313), (31, 1322), (33, 1367), (35, 1385)]