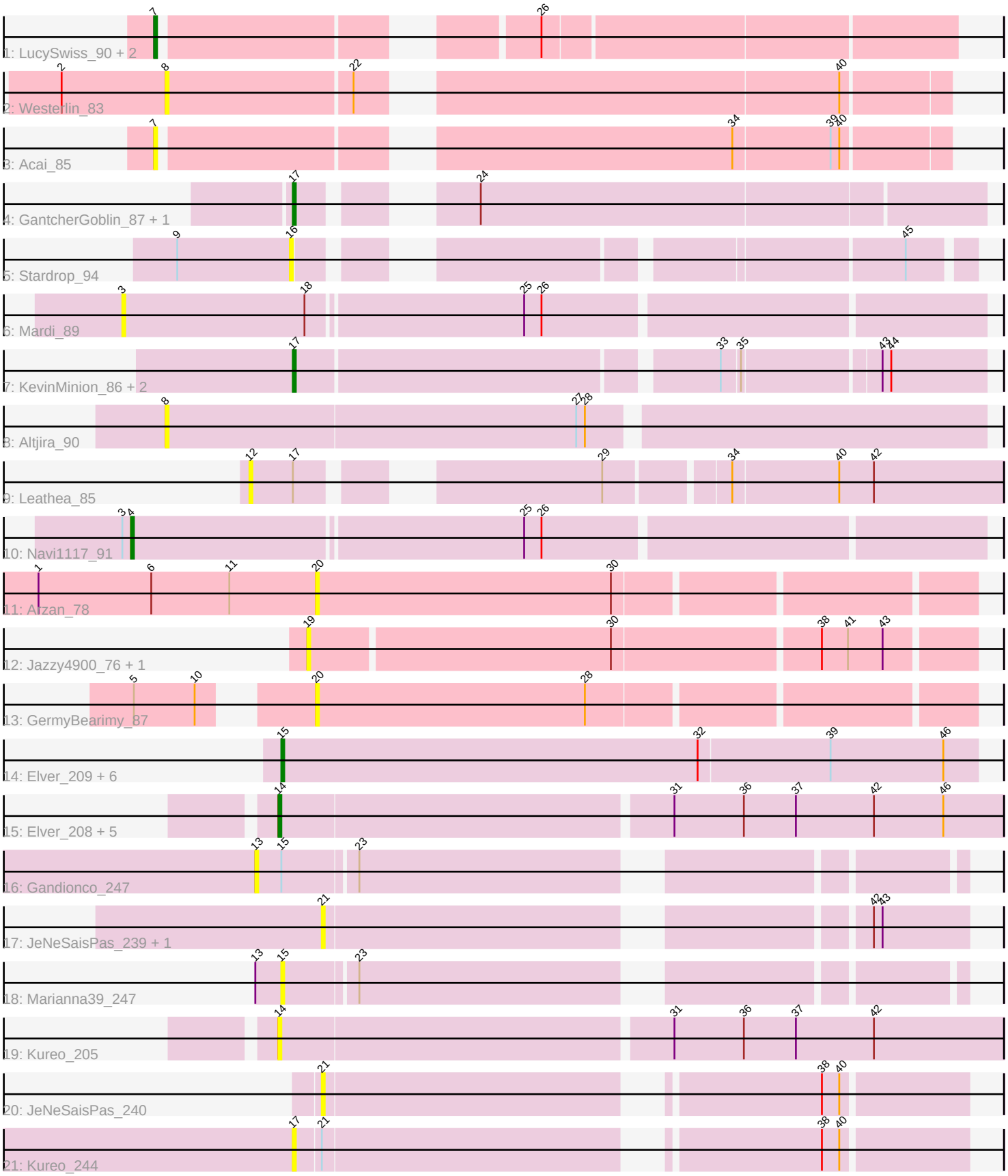
Pham 291334


1: LucySwiss_90 + 2
2: Westerlin_83
3: Acai_85
4: GantcherGoblin_87 + 1
5: Stardrop_94
6: Mardi_89
7: KevinMinion_86 + 2
8: Altjira_90
9: Leathea_85
10: Navi1117_91
11: Arzan_78
12: Jazzy4900_76 + 1
13: GermyBearimy_87
14: Elver_209 + 6
15: Elver_208 + 5
16: Gandionco_247
17: JeNeSaisPas_239 + 1
18: Marianna39_247
19: Kureo_205
20: JeNeSaisPas_240
21: Kureo_244

Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly with annotated starts, the track will be further scaled to only show that region of the ORF with annotated starts. This action will be indicated by adding "Zoomed" to the title. For starts, yellow indicates the location of called starts comprised solely of Glimmer/GeneMark auto-annotations, green indicates the location of called starts with at least 1 manual gene annotation.

Pham 291334 Report

This analysis was run 03/28/26 on database version 641.

Pham number 291334 has 39 members, 24 are drafts.

Phages represented in each track:
• Track 1 : LucySwiss_90, Brunswick_90, Issa_80
• Track 2 : Westerlin_83
• Track 3 : Acai_85
• Track 4 : GantcherGoblin_87, Tenney120_89
• Track 5 : Stardrop_94
• Track 6 : Mardi_89
• Track 7 : KevinMinion_86, Argan_88, Uzumaki_88
• Track 8 : Altjira_90
• Track 9 : Leathea_85
• Track 10 : Navi1117_91
• Track 11 : Arzan_78
• Track 12 : Jazzy4900_76, Sunny4976_75
• Track 13 : GermyBearimy_87
• Track 14 : Elver_209, Gandionco_208, Kureo_206, Marianna39_208, JeNeSaisPas_204, Paella_210, Qui_210
• Track 15 : Elver_208, Gandionco_207, Qui_209, Paella_209, Marianna39_207, JeNeSaisPas_203
• Track 16 : Gandionco_247
• Track 17 : JeNeSaisPas_239, Kureo_243
• Track 18 : Marianna39_247
• Track 19 : Kureo_205
• Track 20 : JeNeSaisPas_240
• Track 21 : Kureo_244

Summary of Final Annotations (See graph section above for start numbers):

The start number called the most often in the published annotations is 17, it was called in 5 of the 15 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Argan_88, GantcherGoblin_87, KevinMinion_86, Kureo_244, Tenney120_89, Uzumaki_88,

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

• Leathea_85,

Genes that do not have the "Most Annotated" start:
• Acai_85, Altjira_90, Arzan_78, Brunswick_90, Elver_208, Elver_209, Gandionco_207, Gandionco_208, Gandionco_247, GermyBearimy_87, Issa_80, Jazzy4900_76, JeNeSaisPas_203, JeNeSaisPas_204, JeNeSaisPas_239, JeNeSaisPas_240, Kureo_205, Kureo_206, Kureo_243, LucySwiss_90, Mardi_89, Marianna39_207, Marianna39_208, Marianna39_247, Navi1117_91, Paella_209, Paella_210, Qui_209, Qui_210, Stardrop_94, Sunny4976_75, Westerlin_83,

Summary by start number:

Start 3:
• Found in 2 of 39 (5.1%) of genes in pham
• No Manual Annotations of this start.
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Mardi_89 (AU6),

Start 4:
• Found in 1 of 39 (2.6%) of genes in pham
• Manual Annotations of this start: 1 of 15
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Navi1117_91 (AU6),

Start 7:
• Found in 4 of 39 (10.3%) of genes in pham
• Manual Annotations of this start: 3 of 15
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Acai_85 (AU1), Brunswick_90 (AU1), Issa_80 (AU1), LucySwiss_90 (AU1),

Start 8:
• Found in 2 of 39 (5.1%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Altjira_90 (AU6), Westerlin_83 (AU1),

Start 12:
• Found in 1 of 39 (2.6%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Leathea_85 (AU6),

Start 13:
• Found in 2 of 39 (5.1%) of genes in pham
• No Manual Annotations of this start.
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Gandionco_247 (FK),

Start 14:
• Found in 7 of 39 (17.9%) of genes in pham
• Manual Annotations of this start: 3 of 15
• Called 100.0% of time when present

• Phage (with cluster) where this start called: Elver_208 (FK), Gandionco_207 (FK), JeNeSaisPas_203 (FK), Kureo_205 (FK), Marianna39_207 (FK), Paella_209 (FK), Qui_209 (FK),

Start 15:
• Found in 9 of 39 (23.1%) of genes in pham
• Manual Annotations of this start: 3 of 15
• Called 88.9% of time when present
• Phage (with cluster) where this start called: Elver_209 (FK), Gandionco_208 (FK), JeNeSaisPas_204 (FK), Kureo_206 (FK), Marianna39_208 (FK), Marianna39_247 (FK), Paella_210 (FK), Qui_210 (FK),

Start 16:
• Found in 1 of 39 (2.6%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Stardrop_94 (AU6),

Start 17:
• Found in 7 of 39 (17.9%) of genes in pham
• Manual Annotations of this start: 5 of 15
• Called 85.7% of time when present
• Phage (with cluster) where this start called: Argan_88 (AU6), GantcherGoblin_87 (AU6), KevinMinion_86 (AU6), Kureo_244 (FK), Tenney120_89 (AU6), Uzumaki_88 (AU6),

Start 19:
• Found in 2 of 39 (5.1%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Jazzy4900_76 (FI), Sunny4976_75 (FI),

Start 20:
• Found in 2 of 39 (5.1%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Arzan_78 (FI), GermyBearimy_87 (FI),

Start 21:
• Found in 4 of 39 (10.3%) of genes in pham
• No Manual Annotations of this start.
• Called 75.0% of time when present
• Phage (with cluster) where this start called: JeNeSaisPas_239 (FK), JeNeSaisPas_240 (FK), Kureo_243 (FK),

Summary by clusters:

There are 4 clusters represented in this pham: AU1, FI, FK, AU6,

Info for manual annotations of cluster AU1:
•Start number 7 was manually annotated 3 times for cluster AU1.

Info for manual annotations of cluster AU6:

•Start number 4 was manually annotated 1 time for cluster AU6.
•Start number 17 was manually annotated 5 times for cluster AU6.

Info for manual annotations of cluster FK:
•Start number 14 was manually annotated 3 times for cluster FK.
•Start number 15 was manually annotated 3 times for cluster FK.

Gene Information:

Gene: Acai_85 Start: 53254, Stop: 53502, Start Num: 7
Candidate Starts for Acai_85:
(Start: 7 @53254 has 3 MA's), (34, 53431), (39, 53464), (40, 53467),

Gene: Altjira_90 Start: 51633, Stop: 51908, Start Num: 8
Candidate Starts for Altjira_90:
(8, 51633), (27, 51774), (28, 51777),

Gene: Argan_88 Start: 50665, Stop: 50889, Start Num: 17
Candidate Starts for Argan_88:
(Start: 17 @50665 has 5 MA's), (33, 50803), (35, 50809), (43, 50854), (44, 50857),

Gene: Arzan_78 Start: 49144, Stop: 49362, Start Num: 20
Candidate Starts for Arzan_78:
(1, 49048), (6, 49087), (11, 49114), (20, 49144), (30, 49246),

Gene: Brunswick_90 Start: 53603, Stop: 53848, Start Num: 7
Candidate Starts for Brunswick_90:
(Start: 7 @53603 has 3 MA's), (26, 53711),

Gene: Elver_209 Start: 97289, Stop: 97528, Start Num: 15
Candidate Starts for Elver_209:
(Start: 15 @97289 has 3 MA's), (32, 97433), (39, 97478), (46, 97517),

Gene: Elver_208 Start: 97047, Stop: 97292, Start Num: 14
Candidate Starts for Elver_208:
(Start: 14 @97047 has 3 MA's), (31, 97179), (36, 97203), (37, 97221), (42, 97248), (46, 97272),

Gene: Gandionco_207 Start: 96608, Stop: 96853, Start Num: 14
Candidate Starts for Gandionco_207:
(Start: 14 @96608 has 3 MA's), (31, 96740), (36, 96764), (37, 96782), (42, 96809), (46, 96833),

Gene: Gandionco_208 Start: 96850, Stop: 97089, Start Num: 15
Candidate Starts for Gandionco_208:
(Start: 15 @96850 has 3 MA's), (32, 96994), (39, 97039), (46, 97078),

Gene: Gandionco_247 Start: 109197, Stop: 109415, Start Num: 13
Candidate Starts for Gandionco_247:
(13, 109197), (Start: 15 @109206 has 3 MA's), (23, 109230),

Gene: GantcherGoblin_87 Start: 50825, Stop: 51037, Start Num: 17

Candidate Starts for GantcherGoblin_87:
(Start: 17 @50825 has 5 MA's), (24, 50867),

Gene: GermyBearimy_87 Start: 50764, Stop: 50982, Start Num: 20
Candidate Starts for GermyBearimy_87:
(5, 50716), (10, 50737), (20, 50764), (28, 50857),

Gene: Issa_80 Start: 52854, Stop: 53099, Start Num: 7
Candidate Starts for Issa_80:
(Start: 7 @52854 has 3 MA's), (26, 52962),

Gene: Jazzy4900_76 Start: 49976, Stop: 50197, Start Num: 19
Candidate Starts for Jazzy4900_76:
(19, 49976), (30, 50078), (38, 50147), (41, 50156), (43, 50168),

Gene: JeNeSaisPas_239 Start: 109195, Stop: 109395, Start Num: 21
Candidate Starts for JeNeSaisPas_239:
(21, 109195), (42, 109363), (43, 109366),

Gene: JeNeSaisPas_204 Start: 97410, Stop: 97649, Start Num: 15
Candidate Starts for JeNeSaisPas_204:
(Start: 15 @97410 has 3 MA's), (32, 97554), (39, 97599), (46, 97638),

Gene: JeNeSaisPas_203 Start: 97168, Stop: 97413, Start Num: 14
Candidate Starts for JeNeSaisPas_203:
(Start: 14 @97168 has 3 MA's), (31, 97300), (36, 97324), (37, 97342), (42, 97369), (46, 97393),

Gene: JeNeSaisPas_240 Start: 109405, Stop: 109605, Start Num: 21
Candidate Starts for JeNeSaisPas_240:
(21, 109405), (38, 109558), (40, 109564),

Gene: KevinMinion_86 Start: 51657, Stop: 51881, Start Num: 17
Candidate Starts for KevinMinion_86:
(Start: 17 @51657 has 5 MA's), (33, 51795), (35, 51801), (43, 51846), (44, 51849),

Gene: Kureo_206 Start: 95954, Stop: 96193, Start Num: 15
Candidate Starts for Kureo_206:
(Start: 15 @95954 has 3 MA's), (32, 96098), (39, 96143), (46, 96182),

Gene: Kureo_243 Start: 107418, Stop: 107618, Start Num: 21
Candidate Starts for Kureo_243:
(21, 107418), (42, 107586), (43, 107589),

Gene: Kureo_205 Start: 95712, Stop: 95957, Start Num: 14
Candidate Starts for Kureo_205:
(Start: 14 @95712 has 3 MA's), (31, 95844), (36, 95868), (37, 95886), (42, 95913),

Gene: Kureo_244 Start: 107619, Stop: 107828, Start Num: 17
Candidate Starts for Kureo_244:
(Start: 17 @107619 has 5 MA's), (21, 107628), (38, 107781), (40, 107787),

Gene: Leathea_85 Start: 48722, Stop: 48952, Start Num: 12
Candidate Starts for Leathea_85:

(12, 48722), (Start: 17 @48737 has 5 MA's), (29, 48821), (34, 48860), (40, 48896), (42, 48908),

Gene: LucySwiss_90 Start: 53700, Stop: 53945, Start Num: 7
Candidate Starts for LucySwiss_90:
(Start: 7 @53700 has 3 MA's), (26, 53808),

Gene: Mardi_89 Start: 51004, Stop: 51291, Start Num: 3
Candidate Starts for Mardi_89:
(3, 51004), (18, 51067), (25, 51139), (26, 51145),

Gene: Marianna39_207 Start: 97211, Stop: 97456, Start Num: 14
Candidate Starts for Marianna39_207:
(Start: 14 @97211 has 3 MA's), (31, 97343), (36, 97367), (37, 97385), (42, 97412), (46, 97436),

Gene: Marianna39_247 Start: 109809, Stop: 110018, Start Num: 15
Candidate Starts for Marianna39_247:
(13, 109800), (Start: 15 @109809 has 3 MA's), (23, 109833),

Gene: Marianna39_208 Start: 97453, Stop: 97692, Start Num: 15
Candidate Starts for Marianna39_208:
(Start: 15 @97453 has 3 MA's), (32, 97597), (39, 97642), (46, 97681),

Gene: Navi1117_91 Start: 52110, Stop: 52394, Start Num: 4
Candidate Starts for Navi1117_91:
(3, 52107), (Start: 4 @52110 has 1 MA's), (25, 52242), (26, 52248),

Gene: Paella_209 Start: 97932, Stop: 98177, Start Num: 14
Candidate Starts for Paella_209:
(Start: 14 @97932 has 3 MA's), (31, 98064), (36, 98088), (37, 98106), (42, 98133), (46, 98157),

Gene: Paella_210 Start: 98174, Stop: 98413, Start Num: 15
Candidate Starts for Paella_210:
(Start: 15 @98174 has 3 MA's), (32, 98318), (39, 98363), (46, 98402),

Gene: Qui_209 Start: 97920, Stop: 98165, Start Num: 14
Candidate Starts for Qui_209:
(Start: 14 @97920 has 3 MA's), (31, 98052), (36, 98076), (37, 98094), (42, 98121), (46, 98145),

Gene: Qui_210 Start: 98162, Stop: 98401, Start Num: 15
Candidate Starts for Qui_210:
(Start: 15 @98162 has 3 MA's), (32, 98306), (39, 98351), (46, 98390),

Gene: Stardrop_94 Start: 52087, Stop: 52284, Start Num: 16
Candidate Starts for Stardrop_94:
(9, 52048), (16, 52087), (45, 52264),

Gene: Sunny4976_75 Start: 49976, Stop: 50197, Start Num: 19
Candidate Starts for Sunny4976_75:
(19, 49976), (30, 50078), (38, 50147), (41, 50156), (43, 50168),

Gene: Tenney120_89 Start: 51376, Stop: 51588, Start Num: 17
Candidate Starts for Tenney120_89:
(Start: 17 @51376 has 5 MA's), (24, 51418),

Gene: Uzumaki_88 Start: 50799, Stop: 51023, Start Num: 17
Candidate Starts for Uzumaki_88:
(Start: 17 @50799 has 5 MA's), (33, 50937), (35, 50943), (43, 50988), (44, 50991),

Gene: Westerlin_83 Start: 54487, Stop: 54735, Start Num: 8
Candidate Starts for Westerlin_83:
(2, 54451), (8, 54487), (22, 54550), (40, 54700),