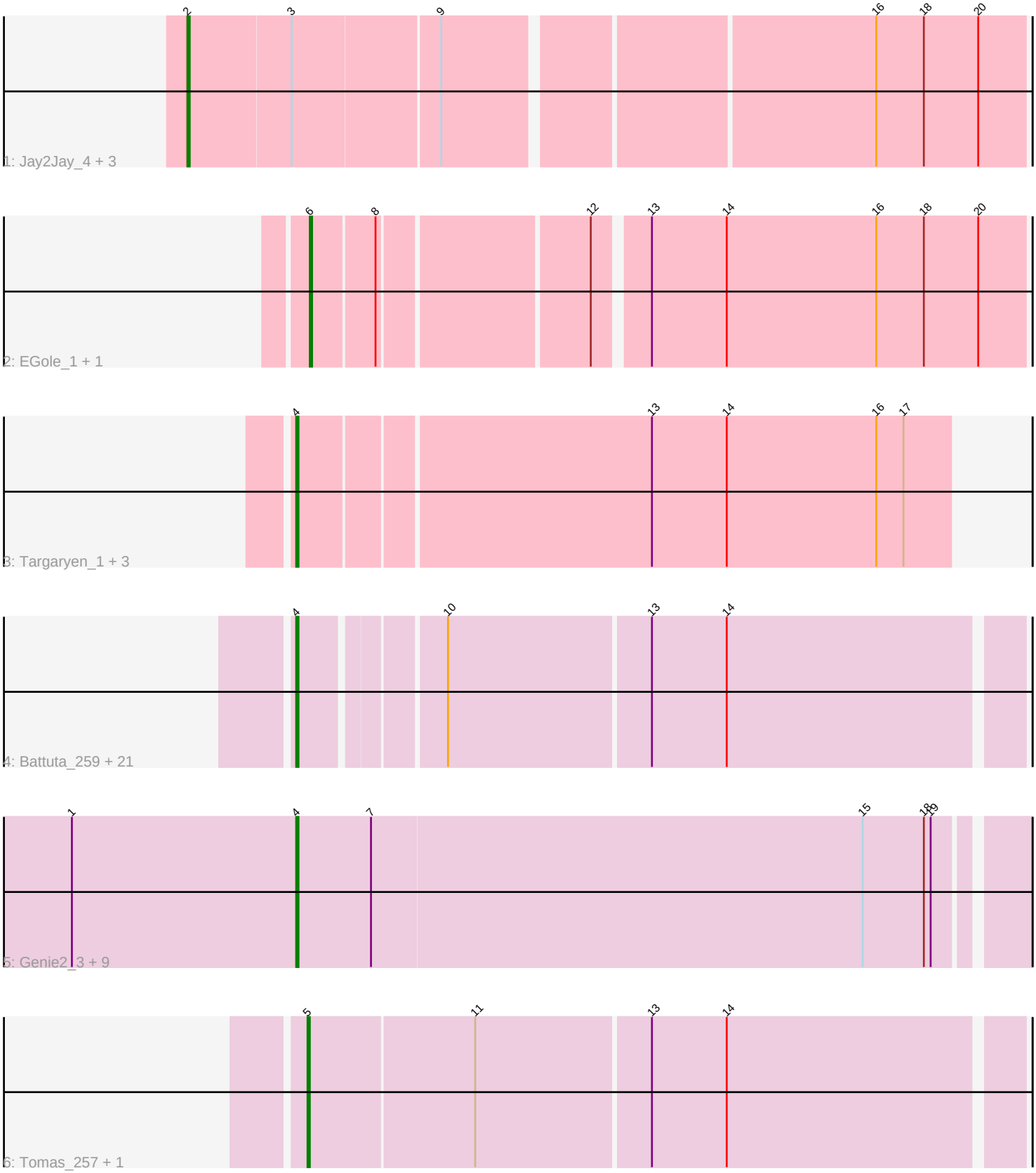
Pham 85876


2
3
9
16
18
20
1: Jay2Jay_4 + 3
6
8
12
13
14
16
18
20
2: EGole_1 + 1
4
13
14
16
17
3: Targaryen_1 + 3
4
10
13
14
4: Battuta_259 + 21
1
4
7
15
18
19
5: Genie2_3 + 9
5
11
13
14
6: Tomas_257 + 1

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 85876 Report

This analysis was run 04/28/24 on database version 559.

Pham number 85876 has 44 members, 2 are drafts.

Phages represented in each track:
• Track 1 : Jay2Jay_4, Jay2Jay_259, Warpy_256, Warpy_4
• Track 2 : EGole_1, EGole_255
• Track 3 : Targaryen_1, Targaryen_252, Evy_239, Evy_1
• Track 4 : Battuta_259, Karimac_2, Jollison_2, Spelly_2, JimJam_2, Amabiko_266, SaltySpitoon_262, Karimac_260, Bordeaux_259, Starbow_2, Amabiko_2, Battuta_2, Quaran19_263, Quaran19_2, JimJam_270, SaltySpitoon_2, Spelly_268, Jollison_266, PumpkinSpice_2, Bordeaux_2, PumpkinSpice_266, Starbow_259
• Track 5 : Genie2_3, Stanimal_258, Genie2_258, Sollertia_259, Stanimal_3, Sollertia_3, Yaboi_3, Yaboi_264, BoomerJR_258, BoomerJR_3
• Track 6 : Tomas_257, Tomas_2

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

The start number called the most often in the published annotations is 4, it was called in 34 of the 42 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Amabiko_2, Amabiko_266, Battuta_2, Battuta_259, BoomerJR_258, BoomerJR_3, Bordeaux_2, Bordeaux_259, Evy_1, Evy_239, Genie2_258, Genie2_3, JimJam_2, JimJam_270, Jollison_2, Jollison_266, Karimac_2, Karimac_260, PumpkinSpice_2, PumpkinSpice_266, Quaran19_2, Quaran19_263, SaltySpitoon_2, SaltySpitoon_262, Sollertia_259, Sollertia_3, Spelly_2, Spelly_268, Stanimal_258, Stanimal_3, Starbow_2, Starbow_259, Targaryen_1, Targaryen_252, Yaboi_264, Yaboi_3,

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

Genes that do not have the "Most Annotated" start:
• EGole_1, EGole_255, Jay2Jay_259, Jay2Jay_4, Tomas_2, Tomas_257, Warpy_256, Warpy_4,

Summary by start number:

Start 2:

• Found in 4 of 44 (9.1%) of genes in pham
• Manual Annotations of this start: 4 of 42
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Jay2Jay_259 (BE1), Jay2Jay_4 (BE1), Warpy_256 (BE1), Warpy_4 (BE1),

Start 4:
• Found in 36 of 44 (81.8%) of genes in pham
• Manual Annotations of this start: 34 of 42
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Amabiko_2 (BE2), Amabiko_266 (BE2), Battuta_2 (BE2), Battuta_259 (BE2), BoomerJR_258 (BE2), BoomerJR_3 (BE2), Bordeaux_2 (BE2), Bordeaux_259 (BE2), Evy_1 (BE1), Evy_239 (BE1), Genie2_258 (BE2), Genie2_3 (BE2), JimJam_2 (BE2), JimJam_270 (BE2), Jollison_2 (BE2), Jollison_266 (BE2), Karimac_2 (BE2), Karimac_260 (BE2), PumpkinSpice_2 (BE2), PumpkinSpice_266 (BE2), Quaran19_2 (BE2), Quaran19_263 (BE2), SaltySpitoon_2 (BE2), SaltySpitoon_262 (BE2), Sollertia_259 (BE2), Sollertia_3 (BE2), Spelly_2 (BE2), Spelly_268 (BE2), Stanimal_258 (BE2), Stanimal_3 (BE2), Starbow_2 (BE2), Starbow_259 (BE2), Targaryen_1 (BE1), Targaryen_252 (BE1), Yaboi_264 (BE2), Yaboi_3 (BE2),

Start 5:
• Found in 2 of 44 (4.5%) of genes in pham
• Manual Annotations of this start: 2 of 42
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Tomas_2 (BE2), Tomas_257 (BE2),

Start 6:
• Found in 2 of 44 (4.5%) of genes in pham
• Manual Annotations of this start: 2 of 42
• Called 100.0% of time when present
• Phage (with cluster) where this start called: EGole_1 (BE1), EGole_255 (BE1),

Summary by clusters:

There are 2 clusters represented in this pham: BE2, BE1,

Info for manual annotations of cluster BE1:
•Start number 2 was manually annotated 4 times for cluster BE1.
•Start number 4 was manually annotated 4 times for cluster BE1.
•Start number 6 was manually annotated 2 times for cluster BE1.

Info for manual annotations of cluster BE2:
•Start number 4 was manually annotated 30 times for cluster BE2.
•Start number 5 was manually annotated 2 times for cluster BE2.

Gene Information:

Gene: Amabiko_266 Start: 120339, Stop: 120037, Start Num: 4
Candidate Starts for Amabiko_266:
(Start: 4 @120339 has 34 MA's), (10, 120282), (13, 120195), (14, 120162),

Gene: Amabiko_2 Start: 1513, Stop: 1211, Start Num: 4
Candidate Starts for Amabiko_2:
(Start: 4 @1513 has 34 MA's), (10, 1456), (13, 1369), (14, 1336),

Gene: Battuta_259 Start: 119668, Stop: 119366, Start Num: 4
Candidate Starts for Battuta_259:
(Start: 4 @119668 has 34 MA's), (10, 119611), (13, 119524), (14, 119491),

Gene: Battuta_2 Start: 1513, Stop: 1211, Start Num: 4
Candidate Starts for Battuta_2:
(Start: 4 @1513 has 34 MA's), (10, 1456), (13, 1369), (14, 1336),

Gene: BoomerJR_258 Start: 120311, Stop: 119997, Start Num: 4
Candidate Starts for BoomerJR_258:
(1, 120410), (Start: 4 @120311 has 34 MA's), (7, 120278), (15, 120062), (18, 120035), (19, 120032),

Gene: BoomerJR_3 Start: 1523, Stop: 1209, Start Num: 4
Candidate Starts for BoomerJR_3:
(1, 1622), (Start: 4 @1523 has 34 MA's), (7, 1490), (15, 1274), (18, 1247), (19, 1244),

Gene: Bordeaux_259 Start: 120251, Stop: 119949, Start Num: 4
Candidate Starts for Bordeaux_259:
(Start: 4 @120251 has 34 MA's), (10, 120194), (13, 120107), (14, 120074),

Gene: Bordeaux_2 Start: 1513, Stop: 1211, Start Num: 4
Candidate Starts for Bordeaux_2:
(Start: 4 @1513 has 34 MA's), (10, 1456), (13, 1369), (14, 1336),

Gene: EGole_1 Start: 1502, Stop: 1203, Start Num: 6
Candidate Starts for EGole_1:
(Start: 6 @1502 has 2 MA's), (8, 1475), (12, 1388), (13, 1367), (14, 1334), (16, 1268), (18, 1247), (20, 1223),

Gene: EGole_255 Start: 125814, Stop: 125515, Start Num: 6
Candidate Starts for EGole_255:
(Start: 6 @125814 has 2 MA's), (8, 125787), (12, 125700), (13, 125679), (14, 125646), (16, 125580), (18, 125559), (20, 125535),

Gene: Evy_239 Start: 122911, Stop: 122630, Start Num: 4
Candidate Starts for Evy_239:
(Start: 4 @122911 has 34 MA's), (13, 122761), (14, 122728), (16, 122662), (17, 122650),

Gene: Evy_1 Start: 1182, Stop: 901, Start Num: 4
Candidate Starts for Evy_1:
(Start: 4 @1182 has 34 MA's), (13, 1032), (14, 999), (16, 933), (17, 921),

Gene: Genie2_3 Start: 1523, Stop: 1209, Start Num: 4
Candidate Starts for Genie2_3:
(1, 1622), (Start: 4 @1523 has 34 MA's), (7, 1490), (15, 1274), (18, 1247), (19, 1244),

Gene: Genie2_258 Start: 120424, Stop: 120110, Start Num: 4
Candidate Starts for Genie2_258:

(1, 120523), (Start: 4 @120424 has 34 MA's), (7, 120391), (15, 120175), (18, 120148), (19, 120145),

Gene: Jay2Jay_4 Start: 1512, Stop: 1159, Start Num: 2
Candidate Starts for Jay2Jay_4:
(Start: 2 @1512 has 4 MA's), (3, 1467), (9, 1404), (16, 1224), (18, 1203), (20, 1179),

Gene: Jay2Jay_259 Start: 123605, Stop: 123252, Start Num: 2
Candidate Starts for Jay2Jay_259:
(Start: 2 @123605 has 4 MA's), (3, 123560), (9, 123497), (16, 123317), (18, 123296), (20, 123272),

Gene: JimJam_2 Start: 1513, Stop: 1211, Start Num: 4
Candidate Starts for JimJam_2:
(Start: 4 @1513 has 34 MA's), (10, 1456), (13, 1369), (14, 1336),

Gene: JimJam_270 Start: 123049, Stop: 122747, Start Num: 4
Candidate Starts for JimJam_270:
(Start: 4 @123049 has 34 MA's), (10, 122992), (13, 122905), (14, 122872),

Gene: Jollison_2 Start: 1513, Stop: 1211, Start Num: 4
Candidate Starts for Jollison_2:
(Start: 4 @1513 has 34 MA's), (10, 1456), (13, 1369), (14, 1336),

Gene: Jollison_266 Start: 120188, Stop: 119886, Start Num: 4
Candidate Starts for Jollison_266:
(Start: 4 @120188 has 34 MA's), (10, 120131), (13, 120044), (14, 120011),

Gene: Karimac_2 Start: 1515, Stop: 1213, Start Num: 4
Candidate Starts for Karimac_2:
(Start: 4 @1515 has 34 MA's), (10, 1458), (13, 1371), (14, 1338),

Gene: Karimac_260 Start: 120834, Stop: 120532, Start Num: 4
Candidate Starts for Karimac_260:
(Start: 4 @120834 has 34 MA's), (10, 120777), (13, 120690), (14, 120657),

Gene: PumpkinSpice_2 Start: 1513, Stop: 1211, Start Num: 4
Candidate Starts for PumpkinSpice_2:
(Start: 4 @1513 has 34 MA's), (10, 1456), (13, 1369), (14, 1336),

Gene: PumpkinSpice_266 Start: 121405, Stop: 121103, Start Num: 4
Candidate Starts for PumpkinSpice_266:
(Start: 4 @121405 has 34 MA's), (10, 121348), (13, 121261), (14, 121228),

Gene: Quaran19_263 Start: 120695, Stop: 120393, Start Num: 4
Candidate Starts for Quaran19_263:
(Start: 4 @120695 has 34 MA's), (10, 120638), (13, 120551), (14, 120518),

Gene: Quaran19_2 Start: 1513, Stop: 1211, Start Num: 4
Candidate Starts for Quaran19_2:
(Start: 4 @1513 has 34 MA's), (10, 1456), (13, 1369), (14, 1336),

Gene: SaltySpitoon_262 Start: 119777, Stop: 119475, Start Num: 4
Candidate Starts for SaltySpitoon_262:
(Start: 4 @119777 has 34 MA's), (10, 119720), (13, 119633), (14, 119600),

Gene: SaltySpitoon_2 Start: 1513, Stop: 1211, Start Num: 4
Candidate Starts for SaltySpitoon_2:
(Start: 4 @1513 has 34 MA's), (10, 1456), (13, 1369), (14, 1336),

Gene: Sollertia_259 Start: 120413, Stop: 120099, Start Num: 4
Candidate Starts for Sollertia_259:
(1, 120512), (Start: 4 @120413 has 34 MA's), (7, 120380), (15, 120164), (18, 120137), (19, 120134),

Gene: Sollertia_3 Start: 1523, Stop: 1209, Start Num: 4
Candidate Starts for Sollertia_3:
(1, 1622), (Start: 4 @1523 has 34 MA's), (7, 1490), (15, 1274), (18, 1247), (19, 1244),

Gene: Spelly_2 Start: 1513, Stop: 1211, Start Num: 4
Candidate Starts for Spelly_2:
(Start: 4 @1513 has 34 MA's), (10, 1456), (13, 1369), (14, 1336),

Gene: Spelly_268 Start: 120317, Stop: 120015, Start Num: 4
Candidate Starts for Spelly_268:
(Start: 4 @120317 has 34 MA's), (10, 120260), (13, 120173), (14, 120140),

Gene: Stanimal_258 Start: 120797, Stop: 120483, Start Num: 4
Candidate Starts for Stanimal_258:
(1, 120896), (Start: 4 @120797 has 34 MA's), (7, 120764), (15, 120548), (18, 120521), (19, 120518),

Gene: Stanimal_3 Start: 1523, Stop: 1209, Start Num: 4
Candidate Starts for Stanimal_3:
(1, 1622), (Start: 4 @1523 has 34 MA's), (7, 1490), (15, 1274), (18, 1247), (19, 1244),

Gene: Starbow_2 Start: 1513, Stop: 1211, Start Num: 4
Candidate Starts for Starbow_2:
(Start: 4 @1513 has 34 MA's), (10, 1456), (13, 1369), (14, 1336),

Gene: Starbow_259 Start: 120361, Stop: 120059, Start Num: 4
Candidate Starts for Starbow_259:
(Start: 4 @120361 has 34 MA's), (10, 120304), (13, 120217), (14, 120184),

Gene: Targaryen_1 Start: 1182, Stop: 901, Start Num: 4
Candidate Starts for Targaryen_1:
(Start: 4 @1182 has 34 MA's), (13, 1032), (14, 999), (16, 933), (17, 921),

Gene: Targaryen_252 Start: 124858, Stop: 124577, Start Num: 4
Candidate Starts for Targaryen_252:
(Start: 4 @124858 has 34 MA's), (13, 124708), (14, 124675), (16, 124609), (17, 124597),

Gene: Tomas_257 Start: 123219, Stop: 122914, Start Num: 5
Candidate Starts for Tomas_257:
(Start: 5 @123219 has 2 MA's), (11, 123147), (13, 123072), (14, 123039),

Gene: Tomas_2 Start: 1512, Stop: 1207, Start Num: 5
Candidate Starts for Tomas_2:
(Start: 5 @1512 has 2 MA's), (11, 1440), (13, 1365), (14, 1332),

Gene: Warpy_256 Start: 123071, Stop: 122718, Start Num: 2
Candidate Starts for Warpy_256:
(Start: 2 @123071 has 4 MA's), (3, 123026), (9, 122963), (16, 122783), (18, 122762), (20, 122738),

Gene: Warpy_4 Start: 1533, Stop: 1180, Start Num: 2
Candidate Starts for Warpy_4:
(Start: 2 @1533 has 4 MA's), (3, 1488), (9, 1425), (16, 1245), (18, 1224), (20, 1200),

Gene: Yaboi_3 Start: 1523, Stop: 1209, Start Num: 4
Candidate Starts for Yaboi_3:
(1, 1622), (Start: 4 @1523 has 34 MA's), (7, 1490), (15, 1274), (18, 1247), (19, 1244),

Gene: Yaboi_264 Start: 120341, Stop: 120027, Start Num: 4
Candidate Starts for Yaboi_264:
(1, 120440), (Start: 4 @120341 has 34 MA's), (7, 120308), (15, 120092), (18, 120065), (19, 120062),