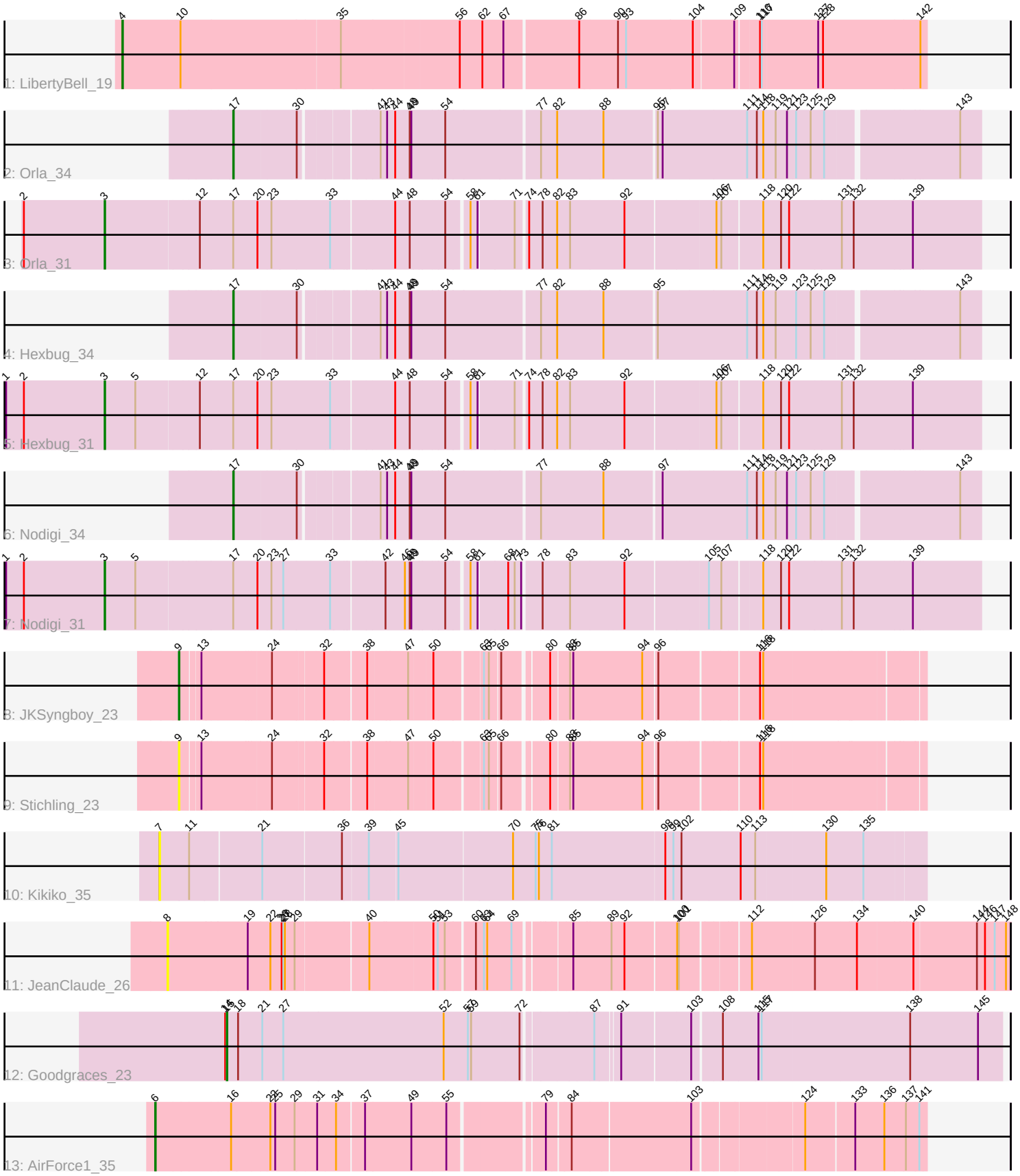
Pham 348177


1: LibertyBell_19
2: Orla_34
3: Orla_31
4: Hexbug_34
5: Hexbug_31
6: Nodigi_34
7: Nodigi_31
8: JKSyngboy_23
9: Stichling_23
10: Kikiko_35
11: JeanClaude_26
12: Goodgraces_23
13: AirForce1_35

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 348177 Report

This analysis was run 11/14/26 on database version 672.

Pham number 348177 has 13 members, 3 are drafts.

Phages represented in each track:
• Track 1 : LibertyBell_19
• Track 2 : Orla_34
• Track 3 : Orla_31
• Track 4 : Hexbug_34
• Track 5 : Hexbug_31
• Track 6 : Nodigi_34
• Track 7 : Nodigi_31
• Track 8 : JKSyngboy_23
• Track 9 : Stichling_23
• Track 10 : Kikiko_35
• Track 11 : JeanClaude_26
• Track 12 : Goodgraces_23
• Track 13 : AirForce1_35

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 3 of the 10 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Hexbug_34, Nodigi_34, Orla_34,

Genes that have the "Most Annotated" start but do not call it:
• Hexbug_31, Nodigi_31, Orla_31,

Genes that do not have the "Most Annotated" start:
• AirForce1_35, Goodgraces_23, JKSyngboy_23, JeanClaude_26, Kikiko_35, LibertyBell_19, Stichling_23,

Summary by start number:

Start 3:
• Found in 3 of 13 (23.1%) of genes in pham
• Manual Annotations of this start: 3 of 10

• Called 100.0% of time when present
• Phage (with cluster) where this start called: Hexbug_31 (CT), Nodigi_31 (CT), Orla_31 (CT),

Start 4:
• Found in 1 of 13 (7.7%) of genes in pham
• Manual Annotations of this start: 1 of 10
• Called 100.0% of time when present
• Phage (with cluster) where this start called: LibertyBell_19 (BI3),

Start 6:
• Found in 1 of 13 (7.7%) of genes in pham
• Manual Annotations of this start: 1 of 10
• Called 100.0% of time when present
• Phage (with cluster) where this start called: AirForce1_35 (FL),

Start 7:
• Found in 1 of 13 (7.7%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Kikiko_35 (EM2),

Start 8:
• Found in 1 of 13 (7.7%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: JeanClaude_26 (FB),

Start 9:
• Found in 2 of 13 (15.4%) of genes in pham
• Manual Annotations of this start: 1 of 10
• Called 100.0% of time when present
• Phage (with cluster) where this start called: JKSyngboy_23 (DE1), Stichling_23 (DE1),

Start 15:
• Found in 1 of 13 (7.7%) of genes in pham
• Manual Annotations of this start: 1 of 10
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Goodgraces_23 (FD),

Start 17:
• Found in 6 of 13 (46.2%) of genes in pham
• Manual Annotations of this start: 3 of 10
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Hexbug_34 (CT), Nodigi_34 (CT), Orla_34 (CT),

Summary by clusters:

There are 7 clusters represented in this pham: DE1, FB, FD, EM2, FL, BI3, CT,

Info for manual annotations of cluster BI3:

•Start number 4 was manually annotated 1 time for cluster BI3.

Info for manual annotations of cluster CT:
•Start number 3 was manually annotated 3 times for cluster CT.
•Start number 17 was manually annotated 3 times for cluster CT.

Info for manual annotations of cluster DE1:
•Start number 9 was manually annotated 1 time for cluster DE1.

Info for manual annotations of cluster FD:
•Start number 15 was manually annotated 1 time for cluster FD.

Info for manual annotations of cluster FL:
•Start number 6 was manually annotated 1 time for cluster FL.

Gene Information:

Gene: AirForce1_35 Start: 25676, Stop: 26977, Start Num: 6
Candidate Starts for AirForce1_35:
(Start: 6 @25676 has 1 MA's), (16, 25808), (22, 25874), (25, 25883), (29, 25919), (31, 25958), (34, 25991), (37, 26039), (49, 26123), (55, 26186), (79, 26339), (84, 26378), (103, 26585), (124, 26768), (133, 26852), (136, 26906), (137, 26942), (141, 26966),

Gene: Goodgraces_23 Start: 17119, Stop: 18492, Start Num: 15
Candidate Starts for Goodgraces_23:
(14, 17116), (Start: 15 @17119 has 1 MA's), (18, 17140), (21, 17185), (27, 17224), (52, 17521), (57, 17566), (59, 17572), (72, 17659), (87, 17776), (91, 17815), (103, 17935), (108, 17983), (115, 18046), (117, 18052), (138, 18322), (145, 18448),

Gene: Hexbug_34 Start: 23896, Stop: 25170, Start Num: 17
Candidate Starts for Hexbug_34:
(Start: 17 @23896 has 3 MA's), (30, 24007), (41, 24133), (43, 24145), (44, 24160), (48, 24187), (49, 24190), (54, 24250), (77, 24409), (82, 24439), (88, 24523), (95, 24610), (111, 24772), (114, 24790), (118, 24802), (119, 24823), (123, 24859), (125, 24886), (129, 24910), (143, 25132),

Gene: Hexbug_31 Start: 22151, Stop: 23659, Start Num: 3
Candidate Starts for Hexbug_31:
(1, 21968), (2, 22001), (Start: 3 @22151 has 3 MA's), (5, 22208), (12, 22319), (Start: 17 @22379 has 3 MA's), (20, 22424), (23, 22448), (33, 22553), (44, 22661), (48, 22688), (54, 22745), (58, 22781), (61, 22793), (71, 22853), (74, 22871), (78, 22895), (82, 22922), (83, 22946), (92, 23039), (106, 23195), (107, 23204), (118, 23276), (120, 23306), (122, 23321), (131, 23411), (132, 23432), (139, 23537),

Gene: JKSyngboy_23 Start: 19509, Stop: 20711, Start Num: 9
Candidate Starts for JKSyngboy_23:
(Start: 9 @19509 has 1 MA's), (13, 19542), (24, 19656), (32, 19743), (38, 19809), (47, 19878), (50, 19917), (63, 19995), (65, 20004), (66, 20022), (80, 20088), (83, 20118), (85, 20124), (94, 20247), (96, 20271), (116, 20436), (118, 20442),

Gene: JeanClaude_26 Start: 19180, Stop: 20592, Start Num: 8

Candidate Starts for JeanClaude_26:
(8, 19180), (19, 19321), (22, 19357), (26, 19378), (27, 19381), (28, 19384), (29, 19402), (40, 19525), (50, 19633), (51, 19639), (53, 19648), (60, 19696), (63, 19711), (64, 19717), (69, 19759), (85, 19846), (89, 19912), (92, 19933), (100, 20023), (101, 20026), (112, 20137), (126, 20251), (134, 20323), (140, 20419), (144, 20530), (146, 20545), (147, 20563), (148, 20584),

Gene: Kikiko_35 Start: 40866, Stop: 42233, Start Num: 7
Candidate Starts for Kikiko_35:
(7, 40866), (11, 40920), (21, 41049), (36, 41187), (39, 41232), (45, 41283), (70, 41490), (75, 41532), (76, 41538), (81, 41562), (98, 41766), (99, 41781), (102, 41796), (110, 41904), (113, 41931), (130, 42057), (135, 42123),

Gene: LibertyBell_19 Start: 13110, Stop: 14543, Start Num: 4
Candidate Starts for LibertyBell_19:
(Start: 4 @13110 has 1 MA's), (10, 13215), (35, 13503), (56, 13716), (62, 13758), (67, 13797), (86, 13929), (90, 13998), (93, 14013), (104, 14136), (109, 14205), (116, 14244), (117, 14247), (127, 14349), (128, 14358), (142, 14535),

Gene: Nodigi_34 Start: 23862, Stop: 25136, Start Num: 17
Candidate Starts for Nodigi_34:
(Start: 17 @23862 has 3 MA's), (30, 23973), (41, 24099), (43, 24111), (44, 24126), (48, 24153), (49, 24156), (54, 24216), (77, 24375), (88, 24489), (97, 24585), (111, 24738), (114, 24756), (118, 24768), (119, 24789), (121, 24810), (123, 24825), (125, 24852), (129, 24876), (143, 25098),

Gene: Nodigi_31 Start: 22120, Stop: 23625, Start Num: 3
Candidate Starts for Nodigi_31:
(1, 21937), (2, 21970), (Start: 3 @22120 has 3 MA's), (5, 22177), (Start: 17 @22348 has 3 MA's), (20, 22393), (23, 22417), (27, 22438), (33, 22522), (42, 22612), (46, 22648), (48, 22657), (49, 22660), (54, 22714), (58, 22750), (61, 22762), (68, 22810), (71, 22822), (73, 22834), (78, 22864), (83, 22915), (92, 23008), (105, 23152), (107, 23173), (118, 23242), (120, 23272), (122, 23287), (131, 23377), (132, 23398), (139, 23503),

Gene: Orla_34 Start: 23869, Stop: 25143, Start Num: 17
Candidate Starts for Orla_34:
(Start: 17 @23869 has 3 MA's), (30, 23980), (41, 24106), (43, 24118), (44, 24133), (48, 24160), (49, 24163), (54, 24223), (77, 24382), (82, 24412), (88, 24496), (95, 24583), (97, 24592), (111, 24745), (114, 24763), (118, 24775), (119, 24796), (121, 24817), (123, 24832), (125, 24859), (129, 24883), (143, 25105),

Gene: Orla_31 Start: 22124, Stop: 23632, Start Num: 3
Candidate Starts for Orla_31:
(2, 21974), (Start: 3 @22124 has 3 MA's), (12, 22292), (Start: 17 @22352 has 3 MA's), (20, 22397), (23, 22421), (33, 22526), (44, 22634), (48, 22661), (54, 22718), (58, 22754), (61, 22766), (71, 22826), (74, 22844), (78, 22868), (82, 22895), (83, 22919), (92, 23012), (106, 23168), (107, 23177), (118, 23249), (120, 23279), (122, 23294), (131, 23384), (132, 23405), (139, 23510),

Gene: Stichling_23 Start: 18454, Stop: 19656, Start Num: 9
Candidate Starts for Stichling_23:
(Start: 9 @18454 has 1 MA's), (13, 18487), (24, 18601), (32, 18688), (38, 18754), (47, 18823), (50, 18862), (63, 18940), (65, 18949), (66, 18967), (80, 19033), (83, 19063), (85, 19069), (94, 19192), (96, 19216), (116, 19381), (118, 19387),