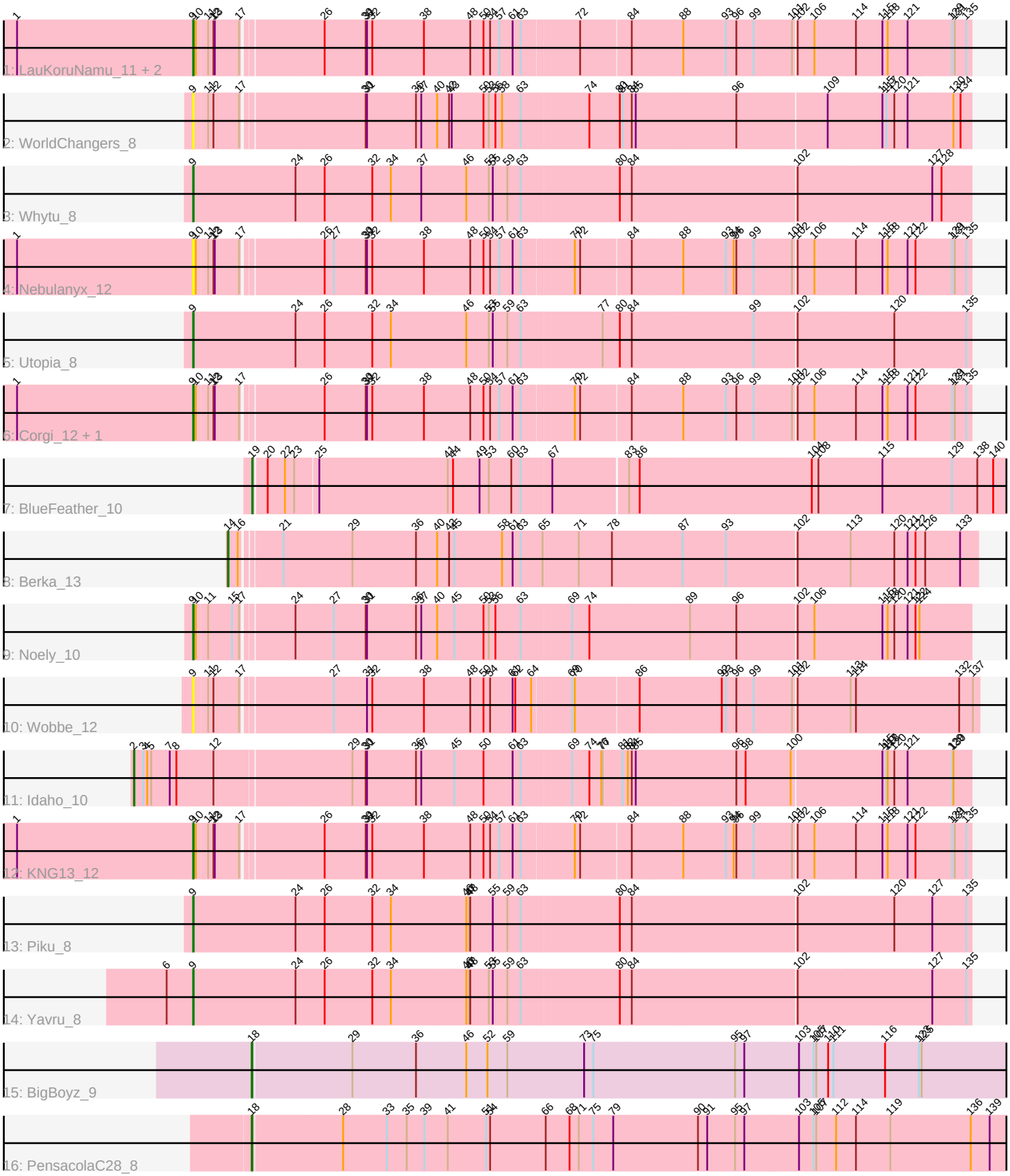
Pham 344439


1: LauKoruNamu_11 + 2
2: WorldChangers_8
3: Whytu_8
4: Nebulanyx_12
5: Utopia_8
6: Corgi_12 + 1
7: BlueFeather_10
8: Berka_13
9: Noely_10
10: Wobbe_12
11: Idaho_10
12: KNG13_12
13: Piku_8
14: Yavru_8
15: BigBoyz_9
16: PensacolaC28_8

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 344439 Report

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

Pham number 344439 has 19 members, 3 are drafts.

Phages represented in each track:
• Track 1 : LauKoruNamu_11, CabbageMan_10, Pauu_11
• Track 2 : WorldChangers_8
• Track 3 : Whytu_8
• Track 4 : Nebulanyx_12
• Track 5 : Utopia_8
• Track 6 : Corgi_12, CheeseDanish_12
• Track 7 : BlueFeather_10
• Track 8 : Berka_13
• Track 9 : Noely_10
• Track 10 : Wobbe_12
• Track 11 : Idaho_10
• Track 12 : KNG13_12
• Track 13 : Piku_8
• Track 14 : Yavru_8
• Track 15 : BigBoyz_9
• Track 16 : PensacolaC28_8

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

The start number called the most often in the published annotations is 9, it was called in 11 of the 16 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• CabbageMan_10, CheeseDanish_12, Corgi_12, KNG13_12, LauKoruNamu_11, Nebulanyx_12, Noely_10, Pauu_11, Piku_8, Utopia_8, Whytu_8, Wobbe_12, WorldChangers_8, Yavru_8,

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

Genes that do not have the "Most Annotated" start:
• Berka_13, BigBoyz_9, BlueFeather_10, Idaho_10, PensacolaC28_8,

Summary by start number:

Start 2:
• Found in 1 of 19 (5.3%) of genes in pham
• Manual Annotations of this start: 1 of 16
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Idaho_10 (FE),

Start 9:
• Found in 14 of 19 (73.7%) of genes in pham
• Manual Annotations of this start: 11 of 16
• Called 100.0% of time when present
• Phage (with cluster) where this start called: CabbageMan_10 (FE), CheeseDanish_12 (FE), Corgi_12 (FE), KNG13_12 (FE), LauKoruNamu_11 (FE), Nebulanyx_12 (FE), Noely_10 (FE), Pauu_11 (FE), Piku_8 (FE), Utopia_8 (FE), Whytu_8 (FE), Wobbe_12 (FE), WorldChangers_8 (FE), Yavru_8 (FE),

Start 14:
• Found in 1 of 19 (5.3%) of genes in pham
• Manual Annotations of this start: 1 of 16
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Berka_13 (FE),

Start 18:
• Found in 2 of 19 (10.5%) of genes in pham
• Manual Annotations of this start: 2 of 16
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BigBoyz_9 (GH), PensacolaC28_8 (singleton),

Start 19:
• Found in 1 of 19 (5.3%) of genes in pham
• Manual Annotations of this start: 1 of 16
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BlueFeather_10 (FE),

Summary by clusters:

There are 3 clusters represented in this pham: singleton, FE, GH,

Info for manual annotations of cluster FE:
•Start number 2 was manually annotated 1 time for cluster FE.
•Start number 9 was manually annotated 11 times for cluster FE.
•Start number 14 was manually annotated 1 time for cluster FE.
•Start number 19 was manually annotated 1 time for cluster FE.

Info for manual annotations of cluster GH:
•Start number 18 was manually annotated 1 time for cluster GH.

Gene Information:

Gene: Berka_13 Start: 7224, Stop: 8843, Start Num: 14

Candidate Starts for Berka_13:
(Start: 14 @7224 has 1 MA's), (16, 7245), (21, 7326), (29, 7476), (36, 7620), (40, 7665), (42, 7692), (45, 7704), (58, 7812), (61, 7833), (63, 7851), (65, 7899), (71, 7977), (78, 8052), (87, 8211), (93, 8307), (102, 8463), (113, 8574), (120, 8670), (121, 8700), (122, 8718), (126, 8733), (133, 8805),

Gene: BigBoyz_9 Start: 6471, Stop: 8159, Start Num: 18
Candidate Starts for BigBoyz_9:
(Start: 18 @6471 has 2 MA's), (29, 6684), (36, 6825), (46, 6936), (52, 6984), (59, 7029), (73, 7203), (75, 7224), (95, 7542), (97, 7563), (103, 7686), (105, 7719), (107, 7725), (110, 7752), (111, 7764), (116, 7881), (123, 7953), (125, 7959),

Gene: BlueFeather_10 Start: 6636, Stop: 8318, Start Num: 19
Candidate Starts for BlueFeather_10:
(Start: 19 @6636 has 1 MA's), (20, 6663), (22, 6702), (23, 6723), (25, 6771), (41, 7056), (44, 7068), (49, 7128), (53, 7149), (60, 7197), (63, 7218), (67, 7284), (83, 7449), (86, 7473), (104, 7854), (108, 7869), (115, 8010), (129, 8166), (138, 8223), (140, 8259),

Gene: CabbageMan_10 Start: 6980, Stop: 8647, Start Num: 9
Candidate Starts for CabbageMan_10:
(1, 6584), (Start: 9 @6980 has 11 MA's), (10, 6986), (11, 7010), (12, 7019), (13, 7022), (17, 7076), (26, 7241), (30, 7334), (31, 7337), (32, 7349), (38, 7466), (48, 7568), (50, 7598), (54, 7613), (57, 7634), (61, 7661), (63, 7679), (72, 7805), (84, 7913), (88, 8027), (93, 8120), (96, 8144), (99, 8183), (101, 8270), (102, 8276), (106, 8312), (114, 8399), (115, 8456), (118, 8468), (121, 8513), (129, 8606), (131, 8612), (135, 8636),

Gene: CheeseDanish_12 Start: 7147, Stop: 8814, Start Num: 9
Candidate Starts for CheeseDanish_12:
(1, 6751), (Start: 9 @7147 has 11 MA's), (10, 7153), (11, 7177), (12, 7186), (13, 7189), (17, 7243), (26, 7408), (30, 7501), (31, 7504), (32, 7516), (38, 7633), (48, 7735), (50, 7765), (54, 7780), (57, 7801), (61, 7828), (63, 7846), (70, 7960), (72, 7972), (84, 8080), (88, 8194), (93, 8287), (96, 8311), (99, 8350), (101, 8437), (102, 8443), (106, 8479), (114, 8566), (115, 8623), (118, 8635), (121, 8680), (122, 8698), (129, 8773), (131, 8779), (135, 8803),

Gene: Corgi_12 Start: 7147, Stop: 8814, Start Num: 9
Candidate Starts for Corgi_12:
(1, 6751), (Start: 9 @7147 has 11 MA's), (10, 7153), (11, 7177), (12, 7186), (13, 7189), (17, 7243), (26, 7408), (30, 7501), (31, 7504), (32, 7516), (38, 7633), (48, 7735), (50, 7765), (54, 7780), (57, 7801), (61, 7828), (63, 7846), (70, 7960), (72, 7972), (84, 8080), (88, 8194), (93, 8287), (96, 8311), (99, 8350), (101, 8437), (102, 8443), (106, 8479), (114, 8566), (115, 8623), (118, 8635), (121, 8680), (122, 8698), (129, 8773), (131, 8779), (135, 8803),

Gene: Idaho_10 Start: 6937, Stop: 8763, Start Num: 2
Candidate Starts for Idaho_10:
(Start: 2 @6937 has 1 MA's), (3, 6958), (4, 6967), (5, 6976), (7, 7018), (8, 7033), (12, 7114), (29, 7408), (30, 7438), (31, 7441), (36, 7552), (37, 7564), (45, 7636), (50, 7702), (61, 7765), (63, 7783), (69, 7894), (74, 7933), (76, 7960), (77, 7963), (81, 8008), (82, 8017), (84, 8026), (85, 8035), (96, 8260), (98, 8281), (100, 8383), (115, 8572), (117, 8581), (118, 8584), (120, 8599), (121, 8629), (129, 8722), (130, 8725),

Gene: KNG13_12 Start: 7144, Stop: 8811, Start Num: 9
Candidate Starts for KNG13_12:
(1, 6748), (Start: 9 @7144 has 11 MA's), (10, 7150), (11, 7174), (12, 7183), (13, 7186), (17, 7240), (26, 7405), (30, 7498), (31, 7501), (32, 7513), (38, 7630), (48, 7732), (50, 7762), (54, 7777), (57, 7798), (61,

7825), (63, 7843), (70, 7957), (72, 7969), (84, 8077), (88, 8191), (93, 8284), (94, 8302), (96, 8308), (99, 8347), (101, 8434), (102, 8440), (106, 8476), (114, 8563), (115, 8620), (118, 8632), (121, 8677), (122, 8695), (129, 8770), (131, 8776), (135, 8800),

Gene: LauKoruNamu_11 Start: 6980, Stop: 8647, Start Num: 9
Candidate Starts for LauKoruNamu_11:
(1, 6584), (Start: 9 @6980 has 11 MA's), (10, 6986), (11, 7010), (12, 7019), (13, 7022), (17, 7076), (26, 7241), (30, 7334), (31, 7337), (32, 7349), (38, 7466), (48, 7568), (50, 7598), (54, 7613), (57, 7634), (61, 7661), (63, 7679), (72, 7805), (84, 7913), (88, 8027), (93, 8120), (96, 8144), (99, 8183), (101, 8270), (102, 8276), (106, 8312), (114, 8399), (115, 8456), (118, 8468), (121, 8513), (129, 8606), (131, 8612), (135, 8636),

Gene: Nebulanyx_12 Start: 7144, Stop: 8811, Start Num: 9
Candidate Starts for Nebulanyx_12:
(1, 6748), (Start: 9 @7144 has 11 MA's), (10, 7150), (11, 7174), (12, 7183), (13, 7186), (17, 7240), (26, 7405), (27, 7426), (30, 7498), (31, 7501), (32, 7513), (38, 7630), (48, 7732), (50, 7762), (54, 7777), (57, 7798), (61, 7825), (63, 7843), (70, 7957), (72, 7969), (84, 8077), (88, 8191), (93, 8284), (94, 8302), (96, 8308), (99, 8347), (101, 8434), (102, 8440), (106, 8476), (114, 8563), (115, 8620), (118, 8632), (121, 8677), (122, 8695), (129, 8770), (131, 8776), (135, 8800),

Gene: Noely_10 Start: 7118, Stop: 8794, Start Num: 9
Candidate Starts for Noely_10:
(Start: 9 @7118 has 11 MA's), (10, 7124), (11, 7148), (15, 7199), (17, 7214), (24, 7319), (27, 7397), (30, 7469), (31, 7472), (36, 7583), (37, 7595), (40, 7628), (45, 7667), (50, 7733), (53, 7745), (56, 7760), (63, 7814), (69, 7925), (74, 7964), (89, 8186), (96, 8291), (102, 8423), (106, 8459), (115, 8603), (118, 8615), (120, 8630), (121, 8660), (122, 8678), (124, 8684),

Gene: Pauu_11 Start: 6980, Stop: 8647, Start Num: 9
Candidate Starts for Pauu_11:
(1, 6584), (Start: 9 @6980 has 11 MA's), (10, 6986), (11, 7010), (12, 7019), (13, 7022), (17, 7076), (26, 7241), (30, 7334), (31, 7337), (32, 7349), (38, 7466), (48, 7568), (50, 7598), (54, 7613), (57, 7634), (61, 7661), (63, 7679), (72, 7805), (84, 7913), (88, 8027), (93, 8120), (96, 8144), (99, 8183), (101, 8270), (102, 8276), (106, 8312), (114, 8399), (115, 8456), (118, 8468), (121, 8513), (129, 8606), (131, 8612), (135, 8636),

Gene: PensacolaC28_8 Start: 6479, Stop: 8161, Start Num: 18
Candidate Starts for PensacolaC28_8:
(Start: 18 @6479 has 2 MA's), (28, 6674), (33, 6773), (35, 6818), (39, 6857), (41, 6908), (51, 6995), (54, 7004), (66, 7127), (68, 7181), (71, 7202), (75, 7235), (79, 7280), (90, 7469), (91, 7490), (95, 7553), (97, 7574), (103, 7697), (105, 7730), (107, 7736), (112, 7781), (114, 7826), (119, 7904), (136, 8078), (139, 8114),

Gene: Piku_8 Start: 6369, Stop: 8084, Start Num: 9
Candidate Starts for Piku_8:
(Start: 9 @6369 has 11 MA's), (24, 6600), (26, 6666), (32, 6774), (34, 6816), (46, 6984), (47, 6990), (48, 6993), (55, 7044), (59, 7077), (63, 7104), (80, 7323), (84, 7347), (102, 7713), (120, 7920), (127, 8001), (135, 8073),

Gene: Utopia_8 Start: 6373, Stop: 8088, Start Num: 9
Candidate Starts for Utopia_8:
(Start: 9 @6373 has 11 MA's), (24, 6604), (26, 6670), (32, 6778), (34, 6820), (46, 6988), (53, 7039), (55, 7048), (59, 7081), (63, 7108), (77, 7288), (80, 7327), (84, 7351), (99, 7624), (102, 7717), (120, 7924), (135, 8077),

Gene: Whytu_8 Start: 6335, Stop: 8050, Start Num: 9
Candidate Starts for Whytu_8:
(Start: 9 @6335 has 11 MA's), (24, 6566), (26, 6632), (32, 6740), (34, 6782), (37, 6851), (46, 6950), (53, 7001), (55, 7010), (59, 7043), (63, 7070), (80, 7289), (84, 7313), (102, 7679), (127, 7967), (128, 7988),

Gene: Wobbe_12 Start: 7090, Stop: 8775, Start Num: 9
Candidate Starts for Wobbe_12:
(Start: 9 @7090 has 11 MA's), (11, 7120), (12, 7129), (17, 7186), (27, 7375), (31, 7450), (32, 7462), (38, 7579), (48, 7681), (50, 7711), (54, 7726), (61, 7774), (62, 7780), (64, 7816), (69, 7900), (70, 7906), (86, 8044), (92, 8224), (93, 8233), (96, 8257), (99, 8296), (101, 8383), (102, 8389), (113, 8500), (114, 8512), (132, 8731), (137, 8761),

Gene: WorldChangers_8 Start: 6555, Stop: 8234, Start Num: 9
Candidate Starts for WorldChangers_8:
(Start: 9 @6555 has 11 MA's), (11, 6585), (12, 6594), (17, 6651), (30, 6909), (31, 6912), (36, 7023), (37, 7035), (40, 7068), (42, 7095), (43, 7101), (50, 7173), (53, 7185), (56, 7200), (58, 7215), (63, 7254), (74, 7404), (80, 7473), (81, 7479), (84, 7497), (85, 7506), (96, 7731), (109, 7926), (115, 8043), (117, 8052), (120, 8070), (121, 8100), (130, 8196), (134, 8211),

Gene: Yavru_8 Start: 6386, Stop: 8101, Start Num: 9
Candidate Starts for Yavru_8:
(6, 6326), (Start: 9 @6386 has 11 MA's), (24, 6617), (26, 6683), (32, 6791), (34, 6833), (46, 7001), (47, 7007), (48, 7010), (53, 7052), (55, 7061), (59, 7094), (63, 7121), (80, 7340), (84, 7364), (102, 7730), (127, 8018), (135, 8090),