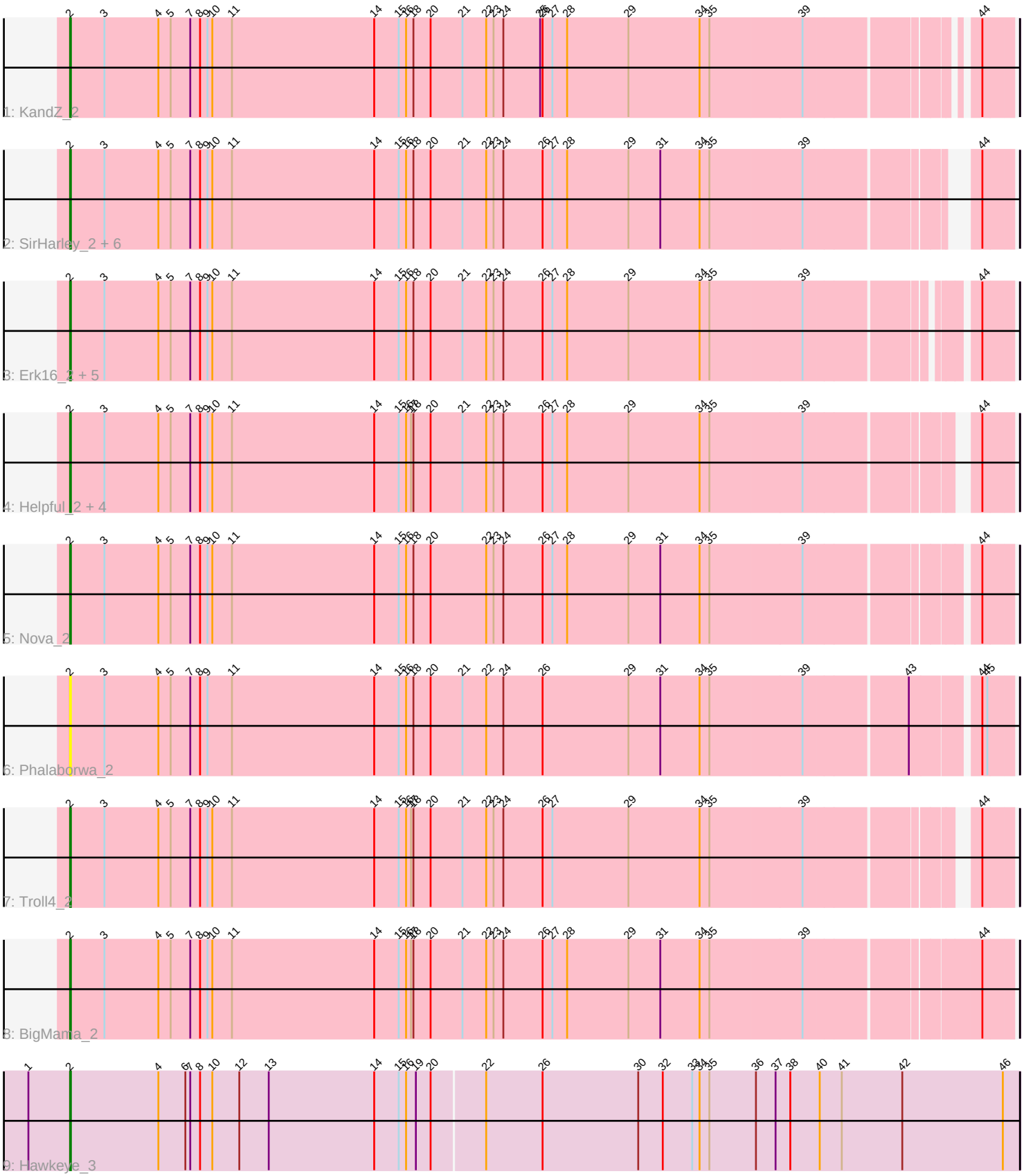
Pham 346113


1: KandZ_2
2: SirHarley_2 + 6
3: Erk16_2 + 5
4: Helpful_2 + 4
5: Nova_2
6: Phalaborwa_2
7: Troll4_2
8: BigMama_2
9: Hawkeye_3

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 346113 Report

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

Pham number 346113 has 24 members, 1 are drafts.

Phages represented in each track:
• Track 1 : KandZ_2
• Track 2 : SirHarley_2, PBI1_2, Butterscotch_2, Visconti_2, Adjutor_2, Gumball_2, Giuseppe_2
• Track 3 : Erk16_2, PLot_2, Thoth_2, Chill_2, WaldoWhy_2, Mopey_2
• Track 4 : Helpful_2, SuperheroCarly_2, Penelope2018_2, Delton_2, Prager_2
• Track 5 : Nova_2
• Track 6 : Phalaborwa_2
• Track 7 : Troll4_2
• Track 8 : BigMama_2
• Track 9 : Hawkeye_3

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

The start number called the most often in the published annotations is 2, it was called in 23 of the 23 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Adjutor_2, BigMama_2, Butterscotch_2, Chill_2, Delton_2, Erk16_2, Giuseppe_2, Gumball_2, Hawkeye_3, Helpful_2, KandZ_2, Mopey_2, Nova_2, PBI1_2, PLot_2, Penelope2018_2, Phalaborwa_2, Prager_2, SirHarley_2, SuperheroCarly_2, Thoth_2, Troll4_2, Visconti_2, WaldoWhy_2,

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

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

Summary by start number:

Start 2:
• Found in 24 of 24 (100.0%) of genes in pham
• Manual Annotations of this start: 23 of 23
• Called 100.0% of time when present

• Phage (with cluster) where this start called: Adjutor_2 (D1), BigMama_2 (D1), Butterscotch_2 (D1), Chill_2 (D1), Delton_2 (D1), Erk16_2 (D1), Giuseppe_2 (D1), Gumball_2 (D1), Hawkeye_3 (D2), Helpful_2 (D1), KandZ_2 (D1), Mopey_2 (D1), Nova_2 (D1), PBI1_2 (D1), PLot_2 (D1), Penelope2018_2 (D1), Phalaborwa_2 (D1), Prager_2 (D1), SirHarley_2 (D1), SuperheroCarly_2 (D1), Thoth_2 (D1), Troll4_2 (D1), Visconti_2 (D1), WaldoWhy_2 (D1),

Summary by clusters:

There are 2 clusters represented in this pham: D2, D1,

Info for manual annotations of cluster D1:
•Start number 2 was manually annotated 22 times for cluster D1.

Info for manual annotations of cluster D2:
•Start number 2 was manually annotated 1 time for cluster D2.

Gene Information:

Gene: Adjutor_2 Start: 421, Stop: 1524, Start Num: 2
Candidate Starts for Adjutor_2:
(Start: 2 @421 has 23 MA's), (3, 463), (4, 529), (5, 544), (7, 568), (8, 580), (9, 589), (10, 595), (11, 619), (14, 793), (15, 823), (16, 832), (18, 841), (20, 862), (21, 901), (22, 928), (23, 937), (24, 949), (26, 997), (27, 1009), (28, 1027), (29, 1102), (31, 1141), (34, 1189), (35, 1201), (39, 1312), (44, 1489),

Gene: BigMama_2 Start: 421, Stop: 1542, Start Num: 2
Candidate Starts for BigMama_2:
(Start: 2 @421 has 23 MA's), (3, 463), (4, 529), (5, 544), (7, 568), (8, 580), (9, 589), (10, 595), (11, 619), (14, 793), (15, 823), (16, 832), (17, 838), (18, 841), (20, 862), (21, 901), (22, 928), (23, 937), (24, 949), (26, 997), (27, 1009), (28, 1027), (29, 1102), (31, 1141), (34, 1189), (35, 1201), (39, 1312), (44, 1507),

Gene: Butterscotch_2 Start: 421, Stop: 1524, Start Num: 2
Candidate Starts for Butterscotch_2:
(Start: 2 @421 has 23 MA's), (3, 463), (4, 529), (5, 544), (7, 568), (8, 580), (9, 589), (10, 595), (11, 619), (14, 793), (15, 823), (16, 832), (18, 841), (20, 862), (21, 901), (22, 928), (23, 937), (24, 949), (26, 997), (27, 1009), (28, 1027), (29, 1102), (31, 1141), (34, 1189), (35, 1201), (39, 1312), (44, 1489),

Gene: Chill_2 Start: 421, Stop: 1533, Start Num: 2
Candidate Starts for Chill_2:
(Start: 2 @421 has 23 MA's), (3, 463), (4, 529), (5, 544), (7, 568), (8, 580), (9, 589), (10, 595), (11, 619), (14, 793), (15, 823), (16, 832), (18, 841), (20, 862), (21, 901), (22, 928), (23, 937), (24, 949), (26, 997), (27, 1009), (28, 1027), (29, 1102), (34, 1189), (35, 1201), (39, 1312), (44, 1498),

Gene: Delton_2 Start: 421, Stop: 1533, Start Num: 2
Candidate Starts for Delton_2:
(Start: 2 @421 has 23 MA's), (3, 463), (4, 529), (5, 544), (7, 568), (8, 580), (9, 589), (10, 595), (11, 619), (14, 793), (15, 823), (16, 832), (17, 838), (18, 841), (20, 862), (21, 901), (22, 928), (23, 937), (24, 949), (26, 997), (27, 1009), (28, 1027), (29, 1102), (34, 1189), (35, 1201), (39, 1312), (44, 1498),

Gene: Erk16_2 Start: 421, Stop: 1524, Start Num: 2

Candidate Starts for Erk16_2:
(Start: 2 @421 has 23 MA's), (3, 463), (4, 529), (5, 544), (7, 568), (8, 580), (9, 589), (10, 595), (11, 619), (14, 793), (15, 823), (16, 832), (18, 841), (20, 862), (21, 901), (22, 928), (23, 937), (24, 949), (26, 997), (27, 1009), (28, 1027), (29, 1102), (34, 1189), (35, 1201), (39, 1312), (44, 1489),

Gene: Giuseppe_2 Start: 421, Stop: 1515, Start Num: 2
Candidate Starts for Giuseppe_2:
(Start: 2 @421 has 23 MA's), (3, 463), (4, 529), (5, 544), (7, 568), (8, 580), (9, 589), (10, 595), (11, 619), (14, 793), (15, 823), (16, 832), (18, 841), (20, 862), (21, 901), (22, 928), (23, 937), (24, 949), (26, 997), (27, 1009), (28, 1027), (29, 1102), (31, 1141), (34, 1189), (35, 1201), (39, 1312), (44, 1480),

Gene: Gumball_2 Start: 421, Stop: 1533, Start Num: 2
Candidate Starts for Gumball_2:
(Start: 2 @421 has 23 MA's), (3, 463), (4, 529), (5, 544), (7, 568), (8, 580), (9, 589), (10, 595), (11, 619), (14, 793), (15, 823), (16, 832), (18, 841), (20, 862), (21, 901), (22, 928), (23, 937), (24, 949), (26, 997), (27, 1009), (28, 1027), (29, 1102), (31, 1141), (34, 1189), (35, 1201), (39, 1312), (44, 1498),

Gene: Hawkeye_3 Start: 790, Stop: 1944, Start Num: 2
Candidate Starts for Hawkeye_3:
(1, 739), (Start: 2 @790 has 23 MA's), (4, 898), (6, 931), (7, 937), (8, 949), (10, 964), (12, 997), (13, 1033), (14, 1162), (15, 1192), (16, 1201), (19, 1213), (20, 1231), (22, 1294), (26, 1363), (30, 1480), (32, 1510), (33, 1546), (34, 1555), (35, 1567), (36, 1624), (37, 1648), (38, 1666), (40, 1702), (41, 1729), (42, 1801), (46, 1924),

Gene: Helpful_2 Start: 421, Stop: 1524, Start Num: 2
Candidate Starts for Helpful_2:
(Start: 2 @421 has 23 MA's), (3, 463), (4, 529), (5, 544), (7, 568), (8, 580), (9, 589), (10, 595), (11, 619), (14, 793), (15, 823), (16, 832), (17, 838), (18, 841), (20, 862), (21, 901), (22, 928), (23, 937), (24, 949), (26, 997), (27, 1009), (28, 1027), (29, 1102), (34, 1189), (35, 1201), (39, 1312), (44, 1489),

Gene: KandZ_2 Start: 421, Stop: 1524, Start Num: 2
Candidate Starts for KandZ_2:
(Start: 2 @421 has 23 MA's), (3, 463), (4, 529), (5, 544), (7, 568), (8, 580), (9, 589), (10, 595), (11, 619), (14, 793), (15, 823), (16, 832), (18, 841), (20, 862), (21, 901), (22, 928), (23, 937), (24, 949), (25, 994), (26, 997), (27, 1009), (28, 1027), (29, 1102), (34, 1189), (35, 1201), (39, 1312), (44, 1489),

Gene: Mopey_2 Start: 421, Stop: 1524, Start Num: 2
Candidate Starts for Mopey_2:
(Start: 2 @421 has 23 MA's), (3, 463), (4, 529), (5, 544), (7, 568), (8, 580), (9, 589), (10, 595), (11, 619), (14, 793), (15, 823), (16, 832), (18, 841), (20, 862), (21, 901), (22, 928), (23, 937), (24, 949), (26, 997), (27, 1009), (28, 1027), (29, 1102), (34, 1189), (35, 1201), (39, 1312), (44, 1489),

Gene: Nova_2 Start: 421, Stop: 1533, Start Num: 2
Candidate Starts for Nova_2:
(Start: 2 @421 has 23 MA's), (3, 463), (4, 529), (5, 544), (7, 568), (8, 580), (9, 589), (10, 595), (11, 619), (14, 793), (15, 823), (16, 832), (18, 841), (20, 862), (22, 928), (23, 937), (24, 949), (26, 997), (27, 1009), (28, 1027), (29, 1102), (31, 1141), (34, 1189), (35, 1201), (39, 1312), (44, 1498),

Gene: PBI1_2 Start: 421, Stop: 1524, Start Num: 2
Candidate Starts for PBI1_2:
(Start: 2 @421 has 23 MA's), (3, 463), (4, 529), (5, 544), (7, 568), (8, 580), (9, 589), (10, 595), (11, 619), (14, 793), (15, 823), (16, 832), (18, 841), (20, 862), (21, 901), (22, 928), (23, 937), (24, 949), (26, 997), (27, 1009), (28, 1027), (29, 1102), (31, 1141), (34, 1189), (35, 1201), (39, 1312), (44, 1489),

Gene: PLot_2 Start: 421, Stop: 1524, Start Num: 2
Candidate Starts for PLot_2:
(Start: 2 @421 has 23 MA's), (3, 463), (4, 529), (5, 544), (7, 568), (8, 580), (9, 589), (10, 595), (11, 619), (14, 793), (15, 823), (16, 832), (18, 841), (20, 862), (21, 901), (22, 928), (23, 937), (24, 949), (26, 997), (27, 1009), (28, 1027), (29, 1102), (34, 1189), (35, 1201), (39, 1312), (44, 1489),

Gene: Penelope2018_2 Start: 421, Stop: 1524, Start Num: 2
Candidate Starts for Penelope2018_2:
(Start: 2 @421 has 23 MA's), (3, 463), (4, 529), (5, 544), (7, 568), (8, 580), (9, 589), (10, 595), (11, 619), (14, 793), (15, 823), (16, 832), (17, 838), (18, 841), (20, 862), (21, 901), (22, 928), (23, 937), (24, 949), (26, 997), (27, 1009), (28, 1027), (29, 1102), (34, 1189), (35, 1201), (39, 1312), (44, 1489),

Gene: Phalaborwa_2 Start: 421, Stop: 1542, Start Num: 2
Candidate Starts for Phalaborwa_2:
(Start: 2 @421 has 23 MA's), (3, 463), (4, 529), (5, 544), (7, 568), (8, 580), (9, 589), (11, 619), (14, 793), (15, 823), (16, 832), (18, 841), (20, 862), (21, 901), (22, 928), (24, 949), (26, 997), (29, 1102), (31, 1141), (34, 1189), (35, 1201), (39, 1312), (43, 1432), (44, 1507), (45, 1513),

Gene: Prager_2 Start: 421, Stop: 1533, Start Num: 2
Candidate Starts for Prager_2:
(Start: 2 @421 has 23 MA's), (3, 463), (4, 529), (5, 544), (7, 568), (8, 580), (9, 589), (10, 595), (11, 619), (14, 793), (15, 823), (16, 832), (17, 838), (18, 841), (20, 862), (21, 901), (22, 928), (23, 937), (24, 949), (26, 997), (27, 1009), (28, 1027), (29, 1102), (34, 1189), (35, 1201), (39, 1312), (44, 1498),

Gene: SirHarley_2 Start: 421, Stop: 1515, Start Num: 2
Candidate Starts for SirHarley_2:
(Start: 2 @421 has 23 MA's), (3, 463), (4, 529), (5, 544), (7, 568), (8, 580), (9, 589), (10, 595), (11, 619), (14, 793), (15, 823), (16, 832), (18, 841), (20, 862), (21, 901), (22, 928), (23, 937), (24, 949), (26, 997), (27, 1009), (28, 1027), (29, 1102), (31, 1141), (34, 1189), (35, 1201), (39, 1312), (44, 1480),

Gene: SuperheroCarly_2 Start: 421, Stop: 1533, Start Num: 2
Candidate Starts for SuperheroCarly_2:
(Start: 2 @421 has 23 MA's), (3, 463), (4, 529), (5, 544), (7, 568), (8, 580), (9, 589), (10, 595), (11, 619), (14, 793), (15, 823), (16, 832), (17, 838), (18, 841), (20, 862), (21, 901), (22, 928), (23, 937), (24, 949), (26, 997), (27, 1009), (28, 1027), (29, 1102), (34, 1189), (35, 1201), (39, 1312), (44, 1498),

Gene: Thoth_2 Start: 421, Stop: 1524, Start Num: 2
Candidate Starts for Thoth_2:
(Start: 2 @421 has 23 MA's), (3, 463), (4, 529), (5, 544), (7, 568), (8, 580), (9, 589), (10, 595), (11, 619), (14, 793), (15, 823), (16, 832), (18, 841), (20, 862), (21, 901), (22, 928), (23, 937), (24, 949), (26, 997), (27, 1009), (28, 1027), (29, 1102), (34, 1189), (35, 1201), (39, 1312), (44, 1489),

Gene: Troll4_2 Start: 421, Stop: 1524, Start Num: 2
Candidate Starts for Troll4_2:
(Start: 2 @421 has 23 MA's), (3, 463), (4, 529), (5, 544), (7, 568), (8, 580), (9, 589), (10, 595), (11, 619), (14, 793), (15, 823), (16, 832), (17, 838), (18, 841), (20, 862), (21, 901), (22, 928), (23, 937), (24, 949), (26, 997), (27, 1009), (29, 1102), (34, 1189), (35, 1201), (39, 1312), (44, 1489),

Gene: Visconti_2 Start: 421, Stop: 1533, Start Num: 2
Candidate Starts for Visconti_2:
(Start: 2 @421 has 23 MA's), (3, 463), (4, 529), (5, 544), (7, 568), (8, 580), (9, 589), (10, 595), (11, 619), (14, 793), (15, 823), (16, 832), (18, 841), (20, 862), (21, 901), (22, 928), (23, 937), (24, 949), (26,

997), (27, 1009), (28, 1027), (29, 1102), (31, 1141), (34, 1189), (35, 1201), (39, 1312), (44, 1498),

Gene: WaldoWhy_2 Start: 421, Stop: 1533, Start Num: 2
Candidate Starts for WaldoWhy_2:
(Start: 2 @421 has 23 MA's), (3, 463), (4, 529), (5, 544), (7, 568), (8, 580), (9, 589), (10, 595), (11, 619), (14, 793), (15, 823), (16, 832), (18, 841), (20, 862), (21, 901), (22, 928), (23, 937), (24, 949), (26, 997), (27, 1009), (28, 1027), (29, 1102), (34, 1189), (35, 1201), (39, 1312), (44, 1498),