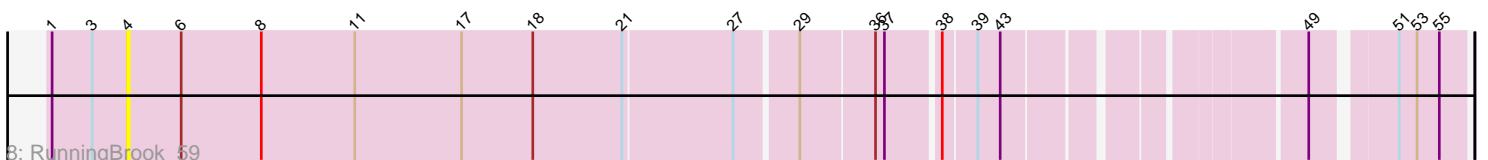
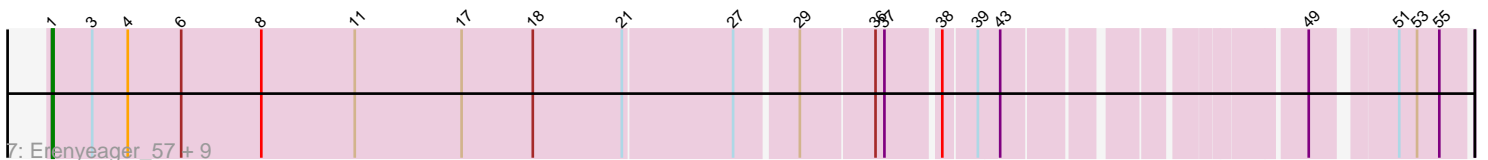
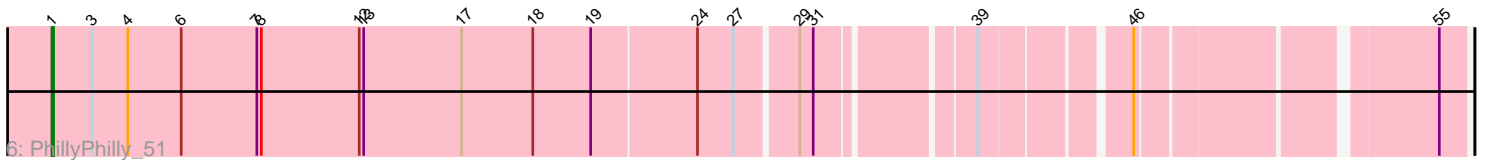
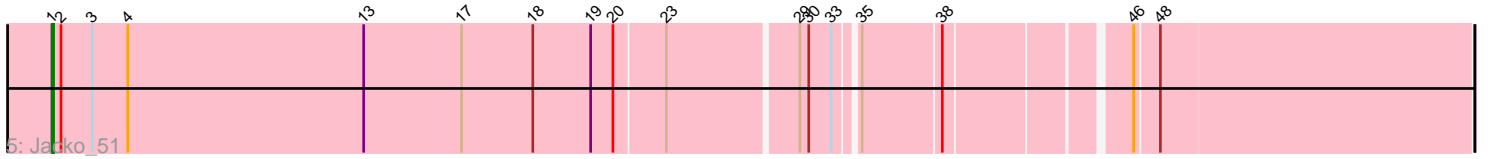
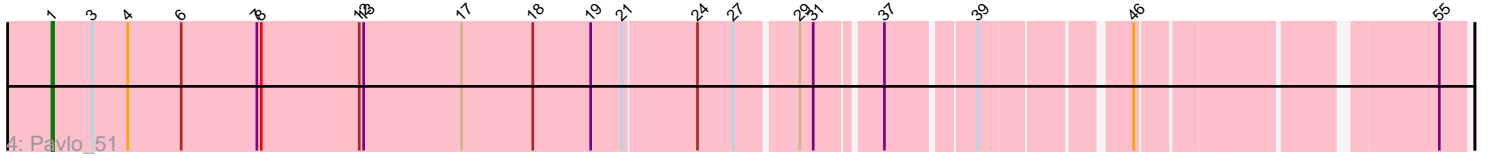
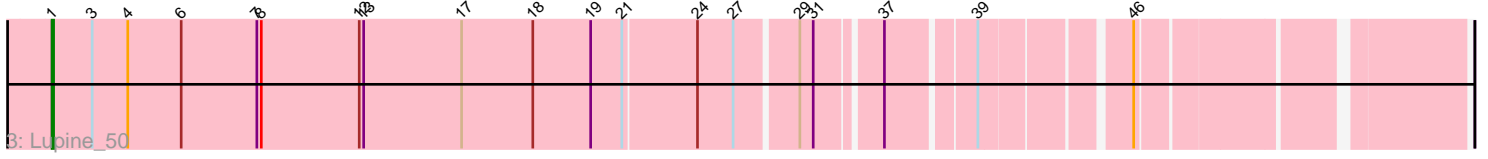
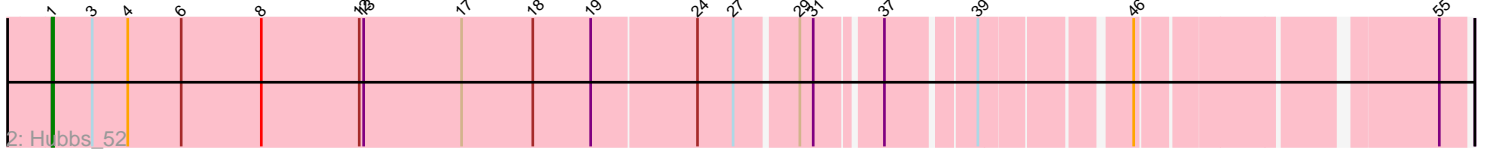
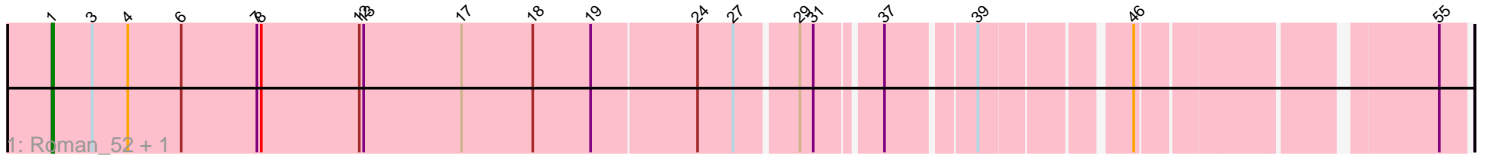


Pham 160695



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 160695 Report

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

WARNING: Pham size does not match number of genes in report. Either unphamerated genes have been added (by you) or starterator has removed genes due to invalid start codon.

Pham number 160695 has 24 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Roman_52, DejaVu_53
- Track 2 : Hubbs_52
- Track 3 : Lupine_50
- Track 4 : Pavlo_51
- Track 5 : Jacko_51
- Track 6 : PhillyPhilly_51
- Track 7 : Erenyeager_57, StevieWelch_57, Necrophoxinus_59, DustyDino_60, Fork_53, Yuma_56, Welcome_58, Musetta_57, Lyell_57, ASegato_56
- Track 8 : RunningBrook_59
- Track 9 : Lifes_40, BarnCat_39, Cassita_44, WaterT_43, LeeroyJenkins_45
- Track 10 : CN1A_40

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

The start number called the most often in the published annotations is 1, it was called in 20 of the 20 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- ASegato_56, BarnCat_39, Cassita_44, DejaVu_53, DustyDino_60, Erenyeager_57, Fork_53, Hubbs_52, Jacko_51, LeeroyJenkins_45, Lifes_40, Lupine_50, Lyell_57, Musetta_57, Necrophoxinus_59, Pavlo_51, PhillyPhilly_51, Roman_52, StevieWelch_57, WaterT_43, Welcome_58, Yuma_56,

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

- RunningBrook_59,

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

- CN1A_40,

Summary by start number:

Start 1:

- Found in 23 of 24 (95.8%) of genes in pham
- Manual Annotations of this start: 20 of 20
- Called 95.7% of time when present
- Phage (with cluster) where this start called: ASegato_56 (ED2), BarnCat_39 (GB), Cassita_44 (GB), DejaVu_53 (ED1), DustyDino_60 (ED2), Erenyeager_57 (ED2), Fork_53 (ED2), Hubbs_52 (ED1), Jacko_51 (ED1), LeeroyJenkins_45 (GB), Lifes_40 (GB), Lupine_50 (ED1), Lyell_57 (ED2), Musetta_57 (ED2), Necrophoxinus_59 (ED2), Pavlo_51 (ED1), PhillyPhilly_51 (ED1), Roman_52 (ED1), StevieWelch_57 (ED2), WaterT_43 (GB), Welcome_58 (ED2), Yuma_56 (ED2),

Start 3:

- Found in 19 of 24 (79.2%) of genes in pham
- No Manual Annotations of this start.
- Called 5.3% of time when present
- Phage (with cluster) where this start called: CN1A_40 (singleton),

Start 4:

- Found in 19 of 24 (79.2%) of genes in pham
- No Manual Annotations of this start.
- Called 5.3% of time when present
- Phage (with cluster) where this start called: RunningBrook_59 (ED2),

Summary by clusters:

There are 4 clusters represented in this pham: ED2, singleton, ED1, GB,

Info for manual annotations of cluster ED1:

- Start number 1 was manually annotated 7 times for cluster ED1.

Info for manual annotations of cluster ED2:

- Start number 1 was manually annotated 9 times for cluster ED2.

Info for manual annotations of cluster GB:

- Start number 1 was manually annotated 4 times for cluster GB.

Gene Information:

Gene: ASegato_56 Start: 30433, Stop: 31311, Start Num: 1

Candidate Starts for ASegato_56:

(Start: 1 @30433 has 20 MA's), (3, 30460), (4, 30484), (6, 30520), (8, 30574), (11, 30637), (17, 30709), (18, 30757), (21, 30817), (27, 30889), (29, 30928), (36, 30976), (37, 30982), (38, 31015), (39, 31036), (43, 31048), (49, 31219), (51, 31267), (53, 31279), (55, 31294),

Gene: BarnCat_39 Start: 23070, Stop: 23999, Start Num: 1

Candidate Starts for BarnCat_39:

(Start: 1 @23070 has 20 MA's), (12, 23274), (14, 23283), (15, 23286), (16, 23322), (18, 23391), (23, 23481), (25, 23511), (26, 23523), (28, 23547), (41, 23700), (46, 23793), (50, 23919),

Gene: CN1A_40 Start: 26610, Stop: 25744, Start Num: 3

Candidate Starts for CN1A_40:

(3, 26610), (4, 26586), (5, 26565), (9, 26460), (10, 26448), (13, 26430), (17, 26364), (22, 26241), (32, 26139), (34, 26130), (36, 26106), (40, 26046), (42, 26034), (44, 26031), (45, 26025), (47, 25941), (52, 25788), (54, 25773), (55, 25767),

Gene: Cassita_44 Start: 25446, Stop: 26375, Start Num: 1

Candidate Starts for Cassita_44:

(Start: 1 @25446 has 20 MA's), (12, 25650), (14, 25659), (15, 25662), (16, 25698), (18, 25767), (23, 25857), (25, 25887), (26, 25899), (28, 25923), (41, 26076), (46, 26169), (50, 26295),

Gene: DejaVu_53 Start: 29647, Stop: 30525, Start Num: 1

Candidate Starts for DejaVu_53:

(Start: 1 @29647 has 20 MA's), (3, 29674), (4, 29698), (6, 29734), (7, 29785), (8, 29788), (12, 29854), (13, 29857), (17, 29923), (18, 29971), (19, 30010), (24, 30079), (27, 30103), (29, 30142), (31, 30151), (37, 30190), (39, 30244), (46, 30331), (55, 30508),

Gene: DustyDino_60 Start: 31031, Stop: 31909, Start Num: 1

Candidate Starts for DustyDino_60:

(Start: 1 @31031 has 20 MA's), (3, 31058), (4, 31082), (6, 31118), (8, 31172), (11, 31235), (17, 31307), (18, 31355), (21, 31415), (27, 31487), (29, 31526), (36, 31574), (37, 31580), (38, 31613), (39, 31634), (43, 31646), (49, 31817), (51, 31865), (53, 31877), (55, 31892),

Gene: Erenyeager_57 Start: 30423, Stop: 31301, Start Num: 1

Candidate Starts for Erenyeager_57:

(Start: 1 @30423 has 20 MA's), (3, 30450), (4, 30474), (6, 30510), (8, 30564), (11, 30627), (17, 30699), (18, 30747), (21, 30807), (27, 30879), (29, 30918), (36, 30966), (37, 30972), (38, 31005), (39, 31026), (43, 31038), (49, 31209), (51, 31257), (53, 31269), (55, 31284),

Gene: Fork_53 Start: 30083, Stop: 30961, Start Num: 1

Candidate Starts for Fork_53:

(Start: 1 @30083 has 20 MA's), (3, 30110), (4, 30134), (6, 30170), (8, 30224), (11, 30287), (17, 30359), (18, 30407), (21, 30467), (27, 30539), (29, 30578), (36, 30626), (37, 30632), (38, 30665), (39, 30686), (43, 30698), (49, 30869), (51, 30917), (53, 30929), (55, 30944),

Gene: Hubbs_52 Start: 29859, Stop: 30737, Start Num: 1

Candidate Starts for Hubbs_52:

(Start: 1 @29859 has 20 MA's), (3, 29886), (4, 29910), (6, 29946), (8, 30000), (12, 30066), (13, 30069), (17, 30135), (18, 30183), (19, 30222), (24, 30291), (27, 30315), (29, 30354), (31, 30363), (37, 30402), (39, 30456), (46, 30543), (55, 30720),

Gene: Jacko_51 Start: 27653, Stop: 28564, Start Num: 1

Candidate Starts for Jacko_51:

(Start: 1 @27653 has 20 MA's), (2, 27659), (3, 27680), (4, 27704), (13, 27863), (17, 27929), (18, 27977), (19, 28016), (20, 28031), (23, 28064), (29, 28148), (30, 28154), (33, 28169), (35, 28181), (38, 28232), (46, 28343), (48, 28358),

Gene: LeeroyJenkins_45 Start: 26329, Stop: 27258, Start Num: 1

Candidate Starts for LeeroyJenkins_45:

(Start: 1 @26329 has 20 MA's), (12, 26533), (14, 26542), (15, 26545), (16, 26581), (18, 26650), (23, 26740), (25, 26770), (26, 26782), (28, 26806), (41, 26959), (46, 27052), (50, 27178),

Gene: Lifes_40 Start: 23101, Stop: 24030, Start Num: 1

Candidate Starts for Lifes_40:

(Start: 1 @23101 has 20 MA's), (12, 23305), (14, 23314), (15, 23317), (16, 23353), (18, 23422), (23, 23512), (25, 23542), (26, 23554), (28, 23578), (41, 23731), (46, 23824), (50, 23950),

Gene: Lupine_50 Start: 29061, Stop: 29939, Start Num: 1

Candidate Starts for Lupine_50:

(Start: 1 @29061 has 20 MA's), (3, 29088), (4, 29112), (6, 29148), (7, 29199), (8, 29202), (12, 29268), (13, 29271), (17, 29337), (18, 29385), (19, 29424), (21, 29445), (24, 29493), (27, 29517), (29, 29556), (31, 29565), (37, 29604), (39, 29658), (46, 29745),

Gene: Lyell_57 Start: 30342, Stop: 31220, Start Num: 1

Candidate Starts for Lyell_57:

(Start: 1 @30342 has 20 MA's), (3, 30369), (4, 30393), (6, 30429), (8, 30483), (11, 30546), (17, 30618), (18, 30666), (21, 30726), (27, 30798), (29, 30837), (36, 30885), (37, 30891), (38, 30924), (39, 30945), (43, 30957), (49, 31128), (51, 31176), (53, 31188), (55, 31203),

Gene: Musetta_57 Start: 30803, Stop: 31681, Start Num: 1

Candidate Starts for Musetta_57:

(Start: 1 @30803 has 20 MA's), (3, 30830), (4, 30854), (6, 30890), (8, 30944), (11, 31007), (17, 31079), (18, 31127), (21, 31187), (27, 31259), (29, 31298), (36, 31346), (37, 31352), (38, 31385), (39, 31406), (43, 31418), (49, 31589), (51, 31637), (53, 31649), (55, 31664),

Gene: Necrophoxinus_59 Start: 31037, Stop: 31915, Start Num: 1

Candidate Starts for Necrophoxinus_59:

(Start: 1 @31037 has 20 MA's), (3, 31064), (4, 31088), (6, 31124), (8, 31178), (11, 31241), (17, 31313), (18, 31361), (21, 31421), (27, 31493), (29, 31532), (36, 31580), (37, 31586), (38, 31619), (39, 31640), (43, 31652), (49, 31823), (51, 31871), (53, 31883), (55, 31898),

Gene: Pavlo_51 Start: 29706, Stop: 30584, Start Num: 1

Candidate Starts for Pavlo_51:

(Start: 1 @29706 has 20 MA's), (3, 29733), (4, 29757), (6, 29793), (7, 29844), (8, 29847), (12, 29913), (13, 29916), (17, 29982), (18, 30030), (19, 30069), (21, 30090), (24, 30138), (27, 30162), (29, 30201), (31, 30210), (37, 30249), (39, 30303), (46, 30390), (55, 30567),

Gene: PhillyPhilly_51 Start: 29240, Stop: 30118, Start Num: 1

Candidate Starts for PhillyPhilly_51:

(Start: 1 @29240 has 20 MA's), (3, 29267), (4, 29291), (6, 29327), (7, 29378), (8, 29381), (12, 29447), (13, 29450), (17, 29516), (18, 29564), (19, 29603), (24, 29672), (27, 29696), (29, 29735), (31, 29744), (39, 29837), (46, 29924), (55, 30101),

Gene: Roman_52 Start: 29707, Stop: 30585, Start Num: 1

Candidate Starts for Roman_52:

(Start: 1 @29707 has 20 MA's), (3, 29734), (4, 29758), (6, 29794), (7, 29845), (8, 29848), (12, 29914), (13, 29917), (17, 29983), (18, 30031), (19, 30070), (24, 30139), (27, 30163), (29, 30202), (31, 30211), (37, 30250), (39, 30304), (46, 30391), (55, 30568),

Gene: RunningBrook_59 Start: 31082, Stop: 31909, Start Num: 4

Candidate Starts for RunningBrook_59:

(Start: 1 @31031 has 20 MA's), (3, 31058), (4, 31082), (6, 31118), (8, 31172), (11, 31235), (17, 31307), (18, 31355), (21, 31415), (27, 31487), (29, 31526), (36, 31574), (37, 31580), (38, 31613), (39, 31634), (43, 31646), (49, 31817), (51, 31865), (53, 31877), (55, 31892),

Gene: StevieWelch_57 Start: 30423, Stop: 31301, Start Num: 1

Candidate Starts for StevieWelch_57:

(Start: 1 @30423 has 20 MA's), (3, 30450), (4, 30474), (6, 30510), (8, 30564), (11, 30627), (17, 30699), (18, 30747), (21, 30807), (27, 30879), (29, 30918), (36, 30966), (37, 30972), (38, 31005), (39, 31026), (43, 31038), (49, 31209), (51, 31257), (53, 31269), (55, 31284),

Gene: WaterT_43 Start: 25190, Stop: 26119, Start Num: 1

Candidate Starts for WaterT_43:

(Start: 1 @25190 has 20 MA's), (12, 25394), (14, 25403), (15, 25406), (16, 25442), (18, 25511), (23, 25601), (25, 25631), (26, 25643), (28, 25667), (41, 25820), (46, 25913), (50, 26039),

Gene: Welcome_58 Start: 30788, Stop: 31666, Start Num: 1

Candidate Starts for Welcome_58:

(Start: 1 @30788 has 20 MA's), (3, 30815), (4, 30839), (6, 30875), (8, 30929), (11, 30992), (17, 31064), (18, 31112), (21, 31172), (27, 31244), (29, 31283), (36, 31331), (37, 31337), (38, 31370), (39, 31391), (43, 31403), (49, 31574), (51, 31622), (53, 31634), (55, 31649),

Gene: Yuma_56 Start: 30357, Stop: 31235, Start Num: 1

Candidate Starts for Yuma_56:

(Start: 1 @30357 has 20 MA's), (3, 30384), (4, 30408), (6, 30444), (8, 30498), (11, 30561), (17, 30633), (18, 30681), (21, 30741), (27, 30813), (29, 30852), (36, 30900), (37, 30906), (38, 30939), (39, 30960), (43, 30972), (49, 31143), (51, 31191), (53, 31203), (55, 31218),