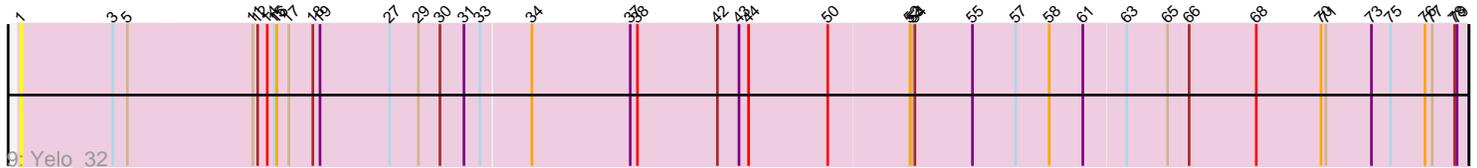
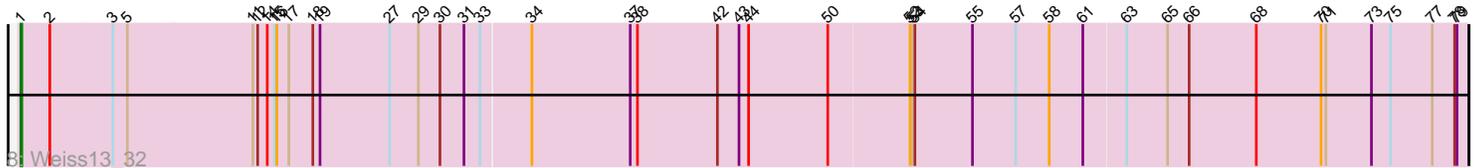
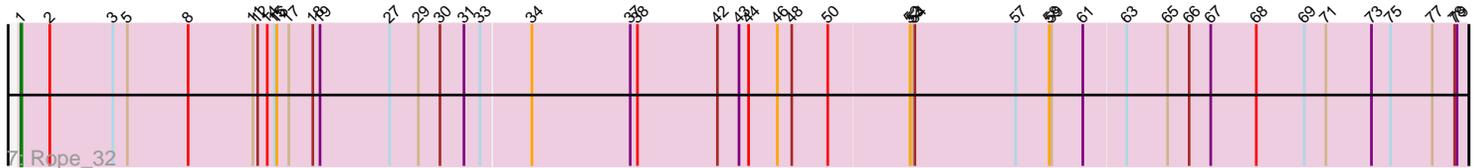
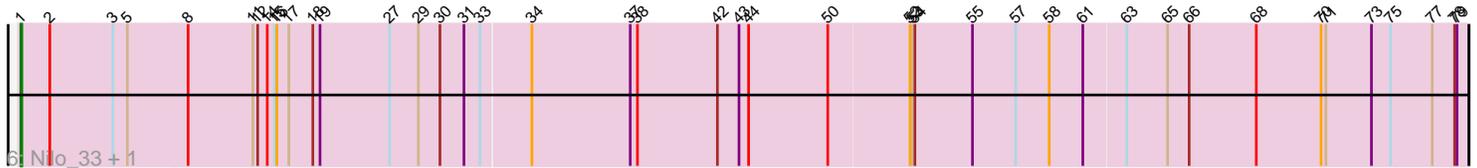
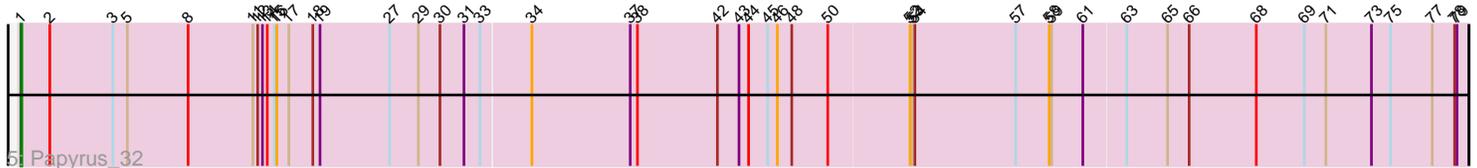
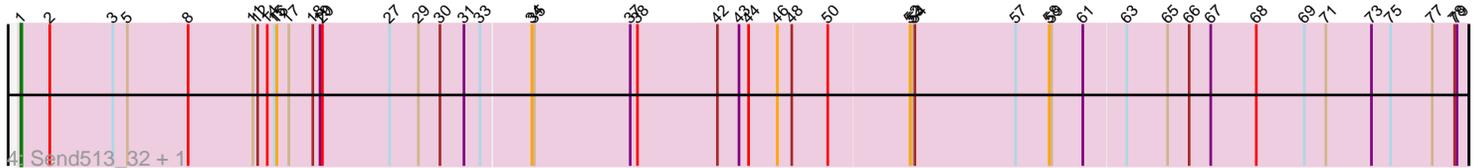
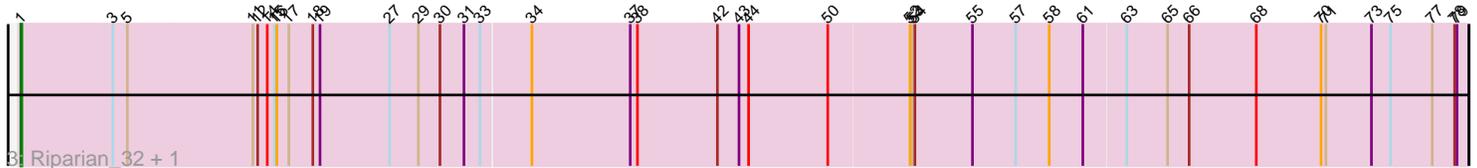
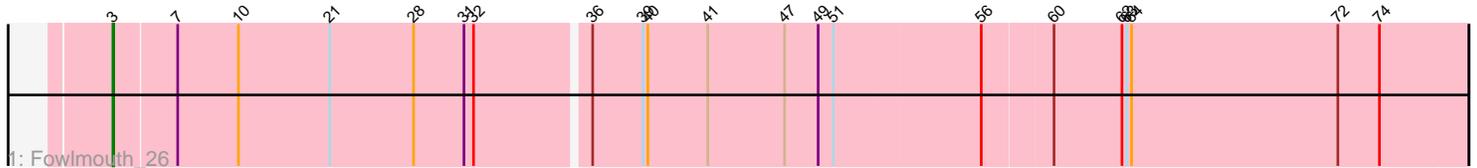


Pham 289905



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 289905 Report

This analysis was run 03/28/26 on database version 641.

Pham number 289905 has 12 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Fowlmouth_26
- Track 2 : MrMiyagi_26
- Track 3 : Riparian_32, MontyDev_32
- Track 4 : Send513_32, Candle_32
- Track 5 : Papyrus_32
- Track 6 : Nilo_33, Zenon_33
- Track 7 : Rope_32
- Track 8 : Weiss13_32
- Track 9 : Yelo_32

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 9 of the 11 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Candle_32, MontyDev_32, Nilo_33, Papyrus_32, Riparian_32, Rope_32, Send513_32, Weiss13_32, Yelo_32, Zenon_33,

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

-

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

- Fowlmouth_26, MrMiyagi_26,

Summary by start number:

Start 1:

- Found in 10 of 12 (83.3%) of genes in pham
- Manual Annotations of this start: 9 of 11
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Candle_32 (R), MontyDev_32 (R), Nilo_33 (R), Papyrus_32 (R), Riparian_32 (R), Rope_32 (R), Send513_32 (R), Weiss13_32 (R), Yelo_32 (R), Zenon_33 (R),

Start 3:

- Found in 11 of 12 (91.7%) of genes in pham
- Manual Annotations of this start: 1 of 11
- Called 9.1% of time when present
- Phage (with cluster) where this start called: Fowlmouth_26 (AC),

Start 4:

- Found in 1 of 12 (8.3%) of genes in pham
- Manual Annotations of this start: 1 of 11
- Called 100.0% of time when present
- Phage (with cluster) where this start called: MrMiyagi_26 (AC),

Summary by clusters:

There are 2 clusters represented in this pham: AC, R,

Info for manual annotations of cluster AC:

- Start number 3 was manually annotated 1 time for cluster AC.
- Start number 4 was manually annotated 1 time for cluster AC.

Info for manual annotations of cluster R:

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

Gene Information:

Gene: Candle_32 Start: 30083, Stop: 31864, Start Num: 1

Candidate Starts for Candle_32:

(Start: 1 @30083 has 9 MA's), (2, 30119), (Start: 3 @30197 has 1 MA's), (5, 30215), (8, 30290), (11, 30371), (12, 30377), (14, 30389), (15, 30398), (16, 30401), (17, 30416), (18, 30446), (19, 30455), (20, 30458), (27, 30542), (29, 30578), (30, 30605), (31, 30635), (33, 30653), (34, 30713), (35, 30716), (37, 30836), (38, 30845), (42, 30941), (43, 30968), (44, 30980), (46, 31016), (48, 31034), (50, 31079), (52, 31178), (53, 31181), (54, 31184), (57, 31310), (58, 31352), (59, 31355), (61, 31394), (63, 31445), (65, 31496), (66, 31520), (67, 31547), (68, 31604), (69, 31664), (71, 31691), (73, 31748), (75, 31772), (77, 31823), (78, 31850), (79, 31853),

Gene: Fowlmouth_26 Start: 25255, Stop: 26895, Start Num: 3

Candidate Starts for Fowlmouth_26:

(Start: 3 @25255 has 1 MA's), (7, 25330), (10, 25405), (21, 25519), (28, 25624), (31, 25687), (32, 25699), (36, 25828), (39, 25888), (40, 25894), (41, 25969), (47, 26065), (49, 26104), (51, 26122), (56, 26299), (60, 26383), (62, 26467), (63, 26473), (64, 26479), (72, 26734), (74, 26785),

Gene: MontyDev_32 Start: 29730, Stop: 31511, Start Num: 1

Candidate Starts for MontyDev_32:

(Start: 1 @29730 has 9 MA's), (Start: 3 @29844 has 1 MA's), (5, 29862), (11, 30018), (12, 30024), (14, 30036), (15, 30045), (16, 30048), (17, 30063), (18, 30093), (19, 30102), (27, 30189), (29, 30225), (30, 30252), (31, 30282), (33, 30300), (34, 30360), (37, 30483), (38, 30492), (42, 30588), (43, 30615), (44, 30627), (50, 30726), (52, 30825), (53, 30828), (54, 30831), (55, 30903), (57, 30957), (58, 30999), (61, 31041), (63, 31092), (65, 31143), (66, 31167), (68, 31251), (70, 31332), (71, 31338), (73, 31395), (75, 31419), (77, 31470), (78, 31497), (79, 31500),

Gene: MrMiyagi_26 Start: 25272, Stop: 26906, Start Num: 4

Candidate Starts for MrMiyagi_26:

(Start: 4 @25272 has 1 MA's), (6, 25308), (9, 25398), (22, 25563), (23, 25575), (24, 25581), (25, 25587), (26, 25596), (31, 25701), (36, 25842), (39, 25902), (40, 25908), (49, 26115), (56, 26310), (60, 26394), (62, 26478), (63, 26484), (64, 26490), (65, 26535), (72, 26745), (74, 26796),

Gene: Nilo_33 Start: 30086, Stop: 31867, Start Num: 1

Candidate Starts for Nilo_33:

(Start: 1 @30086 has 9 MA's), (2, 30122), (Start: 3 @30200 has 1 MA's), (5, 30218), (8, 30293), (11, 30374), (12, 30380), (14, 30392), (15, 30401), (16, 30404), (17, 30419), (18, 30449), (19, 30458), (27, 30545), (29, 30581), (30, 30608), (31, 30638), (33, 30656), (34, 30716), (37, 30839), (38, 30848), (42, 30944), (43, 30971), (44, 30983), (50, 31082), (52, 31181), (53, 31184), (54, 31187), (55, 31259), (57, 31313), (58, 31355), (61, 31397), (63, 31448), (65, 31499), (66, 31523), (68, 31607), (70, 31688), (71, 31694), (73, 31751), (75, 31775), (77, 31826), (78, 31853), (79, 31856),

Gene: Papyrus_32 Start: 29745, Stop: 31526, Start Num: 1

Candidate Starts for Papyrus_32:

(Start: 1 @29745 has 9 MA's), (2, 29781), (Start: 3 @29859 has 1 MA's), (5, 29877), (8, 29952), (11, 30033), (12, 30039), (13, 30045), (14, 30051), (15, 30060), (16, 30063), (17, 30078), (18, 30108), (19, 30117), (27, 30204), (29, 30240), (30, 30267), (31, 30297), (33, 30315), (34, 30375), (37, 30498), (38, 30507), (42, 30603), (43, 30630), (44, 30642), (45, 30666), (46, 30678), (48, 30696), (50, 30741), (52, 30840), (53, 30843), (54, 30846), (57, 30972), (58, 31014), (59, 31017), (61, 31056), (63, 31107), (65, 31158), (66, 31182), (68, 31266), (69, 31326), (71, 31353), (73, 31410), (75, 31434), (77, 31485), (78, 31512), (79, 31515),

Gene: Riparian_32 Start: 29547, Stop: 31328, Start Num: 1

Candidate Starts for Riparian_32:

(Start: 1 @29547 has 9 MA's), (Start: 3 @29661 has 1 MA's), (5, 29679), (11, 29835), (12, 29841), (14, 29853), (15, 29862), (16, 29865), (17, 29880), (18, 29910), (19, 29919), (27, 30006), (29, 30042), (30, 30069), (31, 30099), (33, 30117), (34, 30177), (37, 30300), (38, 30309), (42, 30405), (43, 30432), (44, 30444), (50, 30543), (52, 30642), (53, 30645), (54, 30648), (55, 30720), (57, 30774), (58, 30816), (61, 30858), (63, 30909), (65, 30960), (66, 30984), (68, 31068), (70, 31149), (71, 31155), (73, 31212), (75, 31236), (77, 31287), (78, 31314), (79, 31317),

Gene: Rope_32 Start: 29727, Stop: 31508, Start Num: 1

Candidate Starts for Rope_32:

(Start: 1 @29727 has 9 MA's), (2, 29763), (Start: 3 @29841 has 1 MA's), (5, 29859), (8, 29934), (11, 30015), (12, 30021), (14, 30033), (15, 30042), (16, 30045), (17, 30060), (18, 30090), (19, 30099), (27, 30186), (29, 30222), (30, 30249), (31, 30279), (33, 30297), (34, 30357), (37, 30480), (38, 30489), (42, 30585), (43, 30612), (44, 30624), (46, 30660), (48, 30678), (50, 30723), (52, 30822), (53, 30825), (54, 30828), (57, 30954), (58, 30996), (59, 30999), (61, 31038), (63, 31089), (65, 31140), (66, 31164), (67, 31191), (68, 31248), (69, 31308), (71, 31335), (73, 31392), (75, 31416), (77, 31467), (78, 31494), (79, 31497),

Gene: Send513_32 Start: 30083, Stop: 31864, Start Num: 1

Candidate Starts for Send513_32:

(Start: 1 @30083 has 9 MA's), (2, 30119), (Start: 3 @30197 has 1 MA's), (5, 30215), (8, 30290), (11, 30371), (12, 30377), (14, 30389), (15, 30398), (16, 30401), (17, 30416), (18, 30446), (19, 30455), (20, 30458), (27, 30542), (29, 30578), (30, 30605), (31, 30635), (33, 30653), (34, 30713), (35, 30716), (37, 30836), (38, 30845), (42, 30941), (43, 30968), (44, 30980), (46, 31016), (48, 31034), (50, 31079), (52, 31178), (53, 31181), (54, 31184), (57, 31310), (58, 31352), (59, 31355), (61, 31394), (63, 31445), (65, 31496), (66, 31520), (67, 31547), (68, 31604), (69, 31664), (71, 31691), (73, 31748), (75, 31772), (77, 31823), (78, 31850), (79, 31853),

Gene: Weiss13_32 Start: 29779, Stop: 31560, Start Num: 1

Candidate Starts for Weiss13_32:

(Start: 1 @29779 has 9 MA's), (2, 29815), (Start: 3 @29893 has 1 MA's), (5, 29911), (11, 30067), (12, 30073), (14, 30085), (15, 30094), (16, 30097), (17, 30112), (18, 30142), (19, 30151), (27, 30238), (29, 30274), (30, 30301), (31, 30331), (33, 30349), (34, 30409), (37, 30532), (38, 30541), (42, 30637), (43, 30664), (44, 30676), (50, 30775), (52, 30874), (53, 30877), (54, 30880), (55, 30952), (57, 31006), (58, 31048), (61, 31090), (63, 31141), (65, 31192), (66, 31216), (68, 31300), (70, 31381), (71, 31387), (73, 31444), (75, 31468), (77, 31519), (78, 31546), (79, 31549),

Gene: Yelo_32 Start: 30072, Stop: 31853, Start Num: 1

Candidate Starts for Yelo_32:

(Start: 1 @30072 has 9 MA's), (Start: 3 @30186 has 1 MA's), (5, 30204), (11, 30360), (12, 30366), (14, 30378), (15, 30387), (16, 30390), (17, 30405), (18, 30435), (19, 30444), (27, 30531), (29, 30567), (30, 30594), (31, 30624), (33, 30642), (34, 30702), (37, 30825), (38, 30834), (42, 30930), (43, 30957), (44, 30969), (50, 31068), (52, 31167), (53, 31170), (54, 31173), (55, 31245), (57, 31299), (58, 31341), (61, 31383), (63, 31434), (65, 31485), (66, 31509), (68, 31593), (70, 31674), (71, 31680), (73, 31737), (75, 31761), (76, 31803), (77, 31812), (78, 31839), (79, 31842),

Gene: Zenon_33 Start: 30091, Stop: 31872, Start Num: 1

Candidate Starts for Zenon_33:

(Start: 1 @30091 has 9 MA's), (2, 30127), (Start: 3 @30205 has 1 MA's), (5, 30223), (8, 30298), (11, 30379), (12, 30385), (14, 30397), (15, 30406), (16, 30409), (17, 30424), (18, 30454), (19, 30463), (27, 30550), (29, 30586), (30, 30613), (31, 30643), (33, 30661), (34, 30721), (37, 30844), (38, 30853), (42, 30949), (43, 30976), (44, 30988), (50, 31087), (52, 31186), (53, 31189), (54, 31192), (55, 31264), (57, 31318), (58, 31360), (61, 31402), (63, 31453), (65, 31504), (66, 31528), (68, 31612), (70, 31693), (71, 31699), (73, 31756), (75, 31780), (77, 31831), (78, 31858), (79, 31861),