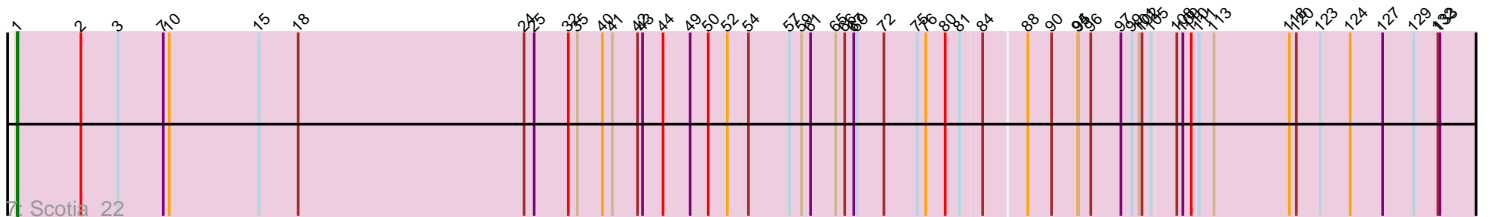
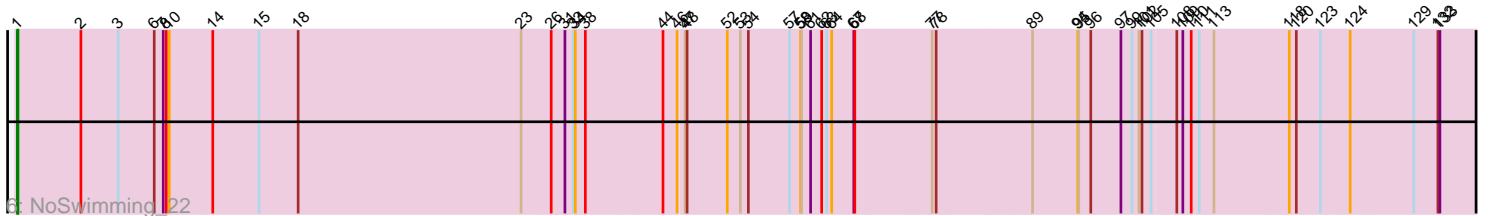
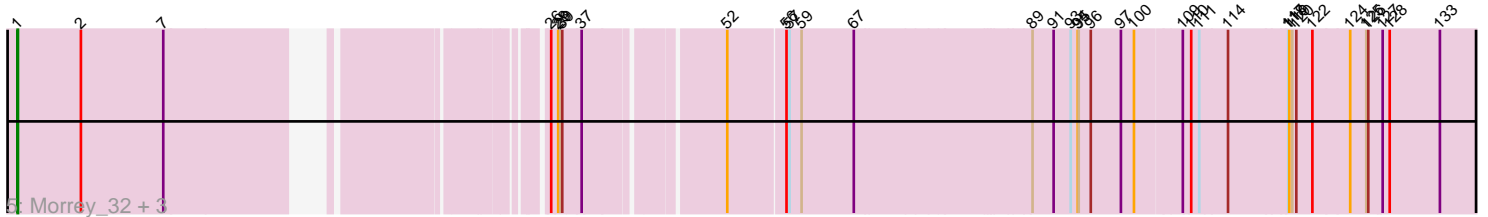
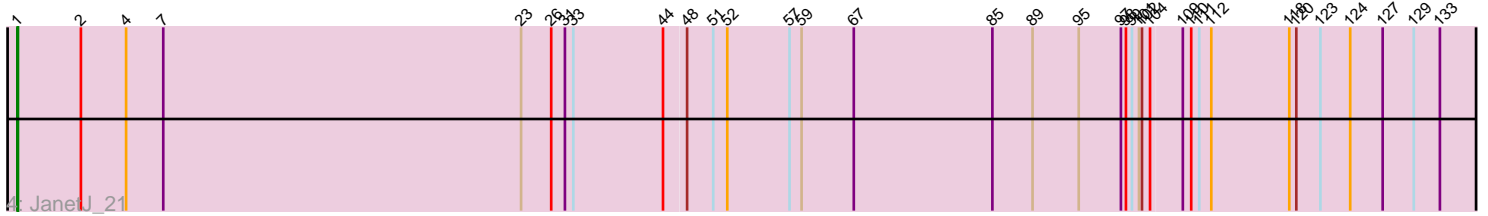
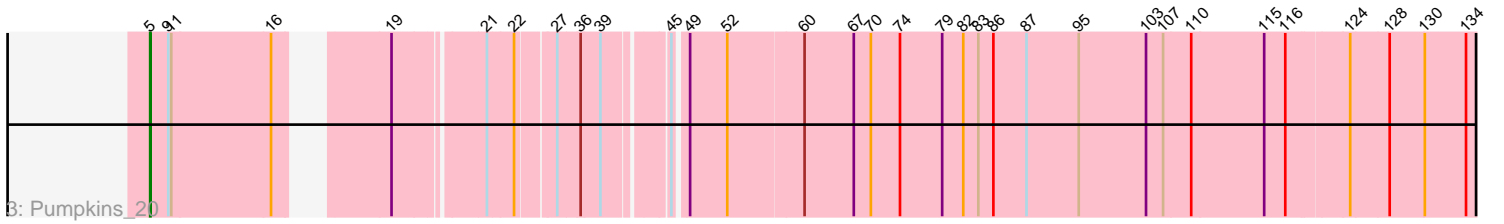
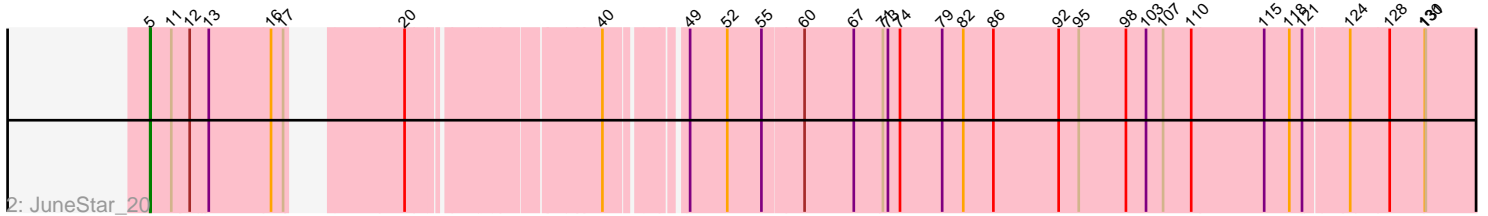
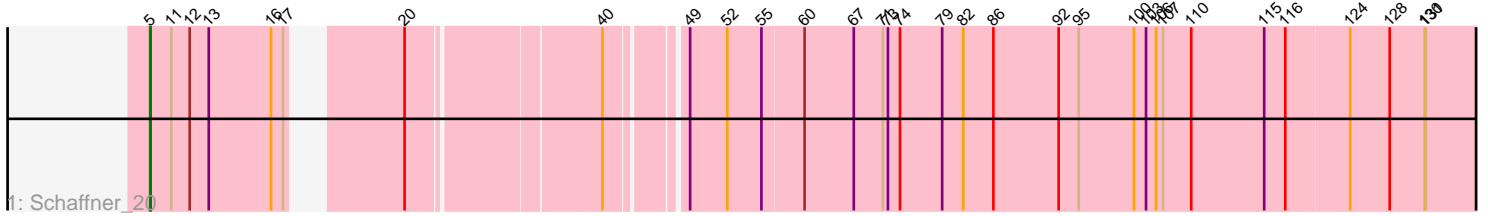


Pham 305494



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 305494 Report

This analysis was run 06/08/26 on database version 649.

Pham number 305494 has 10 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Schaffner_20
- Track 2 : JuneStar_20
- Track 3 : Pumpkins_20
- Track 4 : JanetJ_21
- Track 5 : Morrey_32, PrairieDogTown_21, EvenBluerMoon_21, Aoka_21
- Track 6 : NoSwimming_22
- Track 7 : Scotia_22

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

Genes that call this "Most Annotated" start:

- Aoka_21, EvenBluerMoon_21, JanetJ_21, Morrey_32, NoSwimming_22, PrairieDogTown_21, Scotia_22,

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

-

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

- JuneStar_20, Pumpkins_20, Schaffner_20,

Summary by start number:

Start 1:

- Found in 7 of 10 (70.0%) of genes in pham
- Manual Annotations of this start: 6 of 9
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Aoka_21 (FO), EvenBluerMoon_21 (FO), JanetJ_21 (FO), Morrey_32 (FO), NoSwimming_22 (FO), PrairieDogTown_21 (FO), Scotia_22 (FO),

Start 5:

- Found in 3 of 10 (30.0%) of genes in pham
- Manual Annotations of this start: 3 of 9
- Called 100.0% of time when present
- Phage (with cluster) where this start called: JuneStar_20 (AZ1), Pumpkins_20 (AZ1), Schaffner_20 (AZ1),

Summary by clusters:

There are 2 clusters represented in this pham: AZ1, FO,

Info for manual annotations of cluster AZ1:

- Start number 5 was manually annotated 3 times for cluster AZ1.

Info for manual annotations of cluster FO:

- Start number 1 was manually annotated 6 times for cluster FO.

Gene Information:

Gene: Aoka_21 Start: 17080, Stop: 21027, Start Num: 1

Candidate Starts for Aoka_21:

(Start: 1 @17080 has 6 MA's), (2, 17269), (7, 17515), (26, 18409), (28, 18427), (29, 18433), (30, 18439), (37, 18490), (52, 18856), (56, 19021), (57, 19030), (59, 19066), (67, 19222), (89, 19714), (91, 19777), (93, 19828), (94, 19849), (95, 19852), (96, 19888), (97, 19978), (100, 20017), (109, 20149), (110, 20170), (111, 20194), (114, 20275), (117, 20449), (118, 20452), (119, 20461), (120, 20473), (122, 20521), (124, 20632), (125, 20680), (126, 20686), (127, 20725), (128, 20746), (133, 20896),

Gene: EvenBluerMoon_21 Start: 17115, Stop: 21062, Start Num: 1

Candidate Starts for EvenBluerMoon_21:

(Start: 1 @17115 has 6 MA's), (2, 17304), (7, 17550), (26, 18444), (28, 18462), (29, 18468), (30, 18474), (37, 18525), (52, 18891), (56, 19056), (57, 19065), (59, 19101), (67, 19257), (89, 19749), (91, 19812), (93, 19863), (94, 19884), (95, 19887), (96, 19923), (97, 20013), (100, 20052), (109, 20184), (110, 20205), (111, 20229), (114, 20310), (117, 20484), (118, 20487), (119, 20496), (120, 20508), (122, 20556), (124, 20667), (125, 20715), (126, 20721), (127, 20760), (128, 20781), (133, 20931),

Gene: JanetJ_21 Start: 16898, Stop: 21157, Start Num: 1

Candidate Starts for JanetJ_21:

(Start: 1 @16898 has 6 MA's), (2, 17087), (4, 17222), (7, 17333), (23, 18398), (26, 18482), (31, 18521), (33, 18545), (44, 18797), (48, 18854), (51, 18932), (52, 18974), (57, 19160), (59, 19196), (67, 19352), (85, 19739), (89, 19844), (95, 19982), (97, 20108), (98, 20123), (99, 20141), (101, 20162), (102, 20171), (104, 20195), (109, 20279), (110, 20300), (111, 20324), (112, 20357), (118, 20582), (120, 20603), (123, 20675), (124, 20762), (127, 20858), (129, 20948), (133, 21026),

Gene: JuneStar_20 Start: 16151, Stop: 19756, Start Num: 5

Candidate Starts for JuneStar_20:

(Start: 5 @16151 has 3 MA's), (11, 16214), (12, 16268), (13, 16313), (16, 16496), (17, 16532), (20, 16763), (40, 17255), (49, 17435), (52, 17546), (55, 17648), (60, 17765), (67, 17912), (71, 17996), (73, 18011), (74, 18047), (79, 18173), (82, 18236), (86, 18326), (92, 18521), (95, 18581), (98, 18722), (103, 18782), (107, 18833), (110, 18917), (115, 19133), (118, 19208), (121, 19244), (124, 19367), (128, 19478), (130, 19580), (131, 19583),

Gene: Morrey_32 Start: 17117, Stop: 21064, Start Num: 1

Candidate Starts for Morrey_32:

(Start: 1 @17117 has 6 MA's), (2, 17306), (7, 17552), (26, 18446), (28, 18464), (29, 18470), (30, 18476), (37, 18527), (52, 18893), (56, 19058), (57, 19067), (59, 19103), (67, 19259), (89, 19751), (91, 19814), (93, 19865), (94, 19886), (95, 19889), (96, 19925), (97, 20015), (100, 20054), (109, 20186), (110, 20207), (111, 20231), (114, 20312), (117, 20486), (118, 20489), (119, 20498), (120, 20510), (122, 20558), (124, 20669), (125, 20717), (126, 20723), (127, 20762), (128, 20783), (133, 20933),

Gene: NoSwimming_22 Start: 18041, Stop: 22300, Start Num: 1

Candidate Starts for NoSwimming_22:

(Start: 1 @18041 has 6 MA's), (2, 18230), (3, 18341), (6, 18449), (7, 18476), (8, 18485), (10, 18494), (14, 18620), (15, 18758), (18, 18875), (23, 19541), (26, 19625), (31, 19664), (33, 19688), (34, 19694), (38, 19718), (44, 19940), (46, 19976), (47, 19991), (48, 19997), (52, 20117), (53, 20156), (54, 20180), (57, 20303), (58, 20336), (59, 20339), (61, 20366), (62, 20399), (63, 20414), (64, 20429), (67, 20495), (68, 20498), (77, 20714), (78, 20726), (89, 20987), (94, 21122), (95, 21125), (96, 21161), (97, 21251), (99, 21284), (101, 21305), (102, 21314), (105, 21341), (108, 21404), (109, 21422), (110, 21443), (111, 21467), (113, 21506), (118, 21725), (120, 21746), (123, 21818), (124, 21905), (129, 22091), (132, 22163), (133, 22169),

Gene: PrairieDogTown_21 Start: 17117, Stop: 21064, Start Num: 1

Candidate Starts for PrairieDogTown_21:

(Start: 1 @17117 has 6 MA's), (2, 17306), (7, 17552), (26, 18446), (28, 18464), (29, 18470), (30, 18476), (37, 18527), (52, 18893), (56, 19058), (57, 19067), (59, 19103), (67, 19259), (89, 19751), (91, 19814), (93, 19865), (94, 19886), (95, 19889), (96, 19925), (97, 20015), (100, 20054), (109, 20186), (110, 20207), (111, 20231), (114, 20312), (117, 20486), (118, 20489), (119, 20498), (120, 20510), (122, 20558), (124, 20669), (125, 20717), (126, 20723), (127, 20762), (128, 20783), (133, 20933),

Gene: Pumpkins_20 Start: 16163, Stop: 19783, Start Num: 5

Candidate Starts for Pumpkins_20:

(Start: 5 @16163 has 3 MA's), (9, 16217), (11, 16226), (16, 16520), (19, 16748), (21, 16976), (22, 17048), (27, 17153), (36, 17216), (39, 17273), (45, 17432), (49, 17459), (52, 17570), (60, 17789), (67, 17936), (70, 17987), (74, 18074), (79, 18200), (82, 18263), (83, 18308), (86, 18353), (87, 18452), (95, 18608), (103, 18809), (107, 18860), (110, 18941), (115, 19157), (116, 19220), (124, 19394), (128, 19505), (130, 19607), (134, 19730),

Gene: Schaffner_20 Start: 16150, Stop: 19755, Start Num: 5

Candidate Starts for Schaffner_20:

(Start: 5 @16150 has 3 MA's), (11, 16213), (12, 16267), (13, 16312), (16, 16495), (17, 16531), (20, 16762), (40, 17254), (49, 17434), (52, 17545), (55, 17647), (60, 17764), (67, 17911), (71, 17995), (73, 18010), (74, 18046), (79, 18172), (82, 18235), (86, 18325), (92, 18520), (95, 18580), (100, 18745), (103, 18781), (106, 18811), (107, 18832), (110, 18913), (115, 19129), (116, 19192), (124, 19366), (128, 19477), (130, 19579), (131, 19582),

Gene: Scotia_22 Start: 18041, Stop: 22303, Start Num: 1

Candidate Starts for Scotia_22:

(Start: 1 @18041 has 6 MA's), (2, 18230), (3, 18341), (7, 18476), (10, 18494), (15, 18758), (18, 18875), (24, 19550), (25, 19580), (32, 19682), (35, 19709), (40, 19781), (41, 19811), (42, 19886), (43, 19901), (44, 19961), (49, 20042), (50, 20096), (52, 20153), (54, 20216), (57, 20339), (59, 20375), (61, 20402), (65, 20477), (66, 20504), (67, 20531), (69, 20540), (72, 20609), (75, 20699), (76, 20723), (80, 20771), (81, 20813), (84, 20873), (88, 20978), (90, 21047), (94, 21125), (95, 21128), (96, 21164), (97, 21254), (99, 21287), (101, 21308), (102, 21317), (105, 21344), (108, 21407), (109, 21425), (110, 21446), (111, 21470), (113, 21509), (118, 21728), (120, 21749), (123, 21821), (124, 21908), (127, 22004), (129, 22094), (132, 22166), (133, 22172),