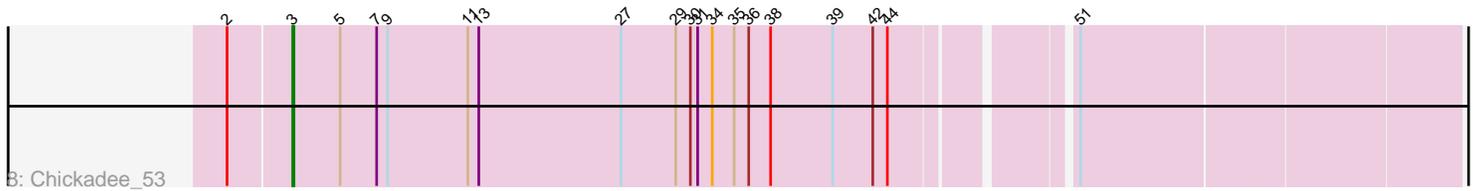
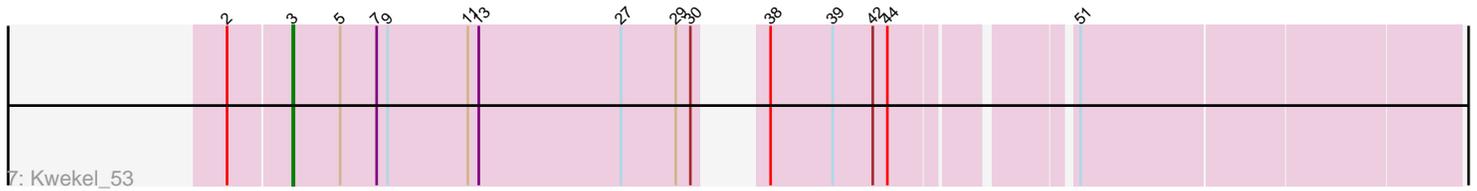
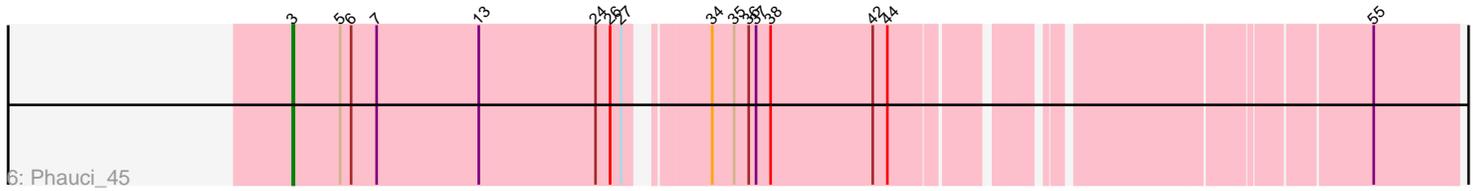
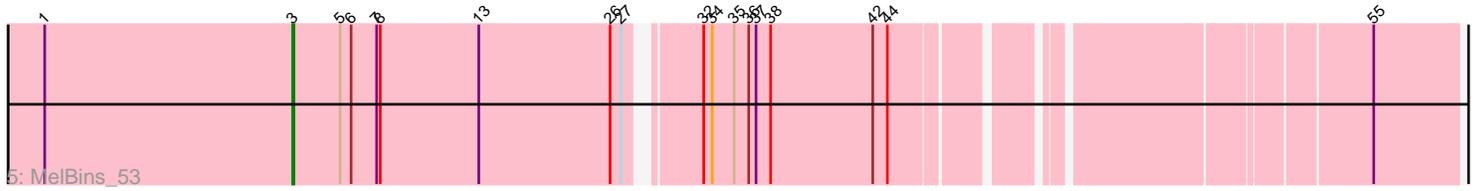
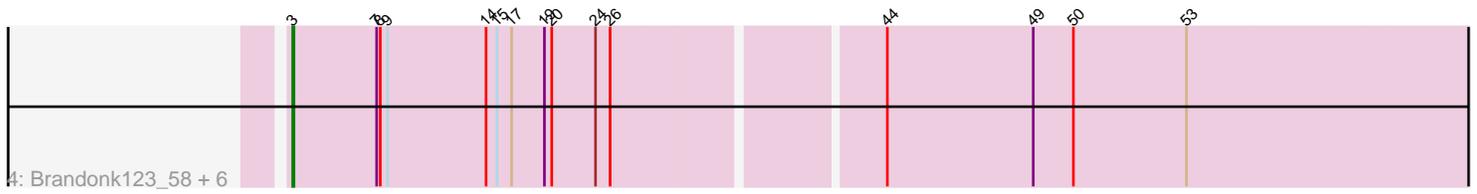
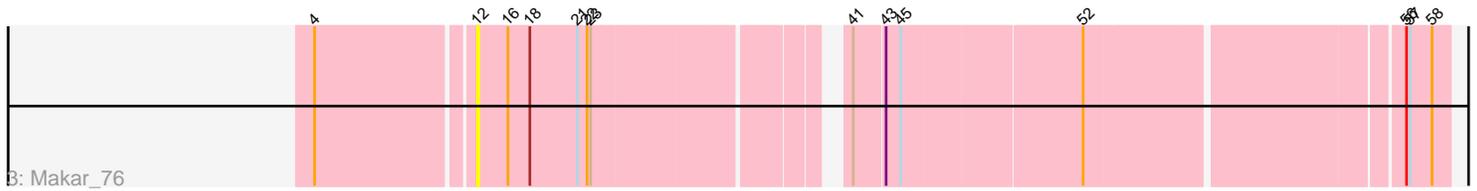
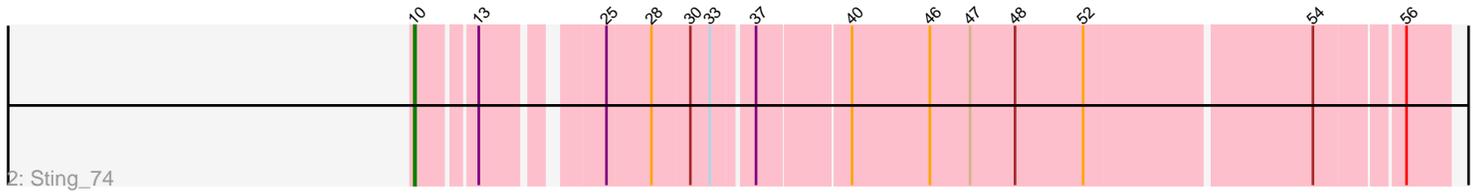
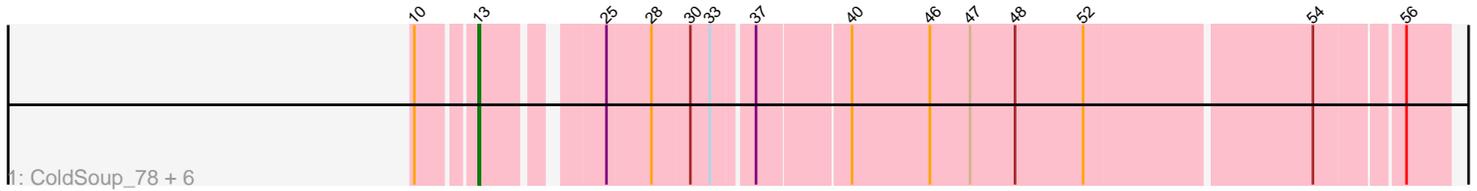


Pham 291560



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 291560 Report

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

Pham number 291560 has 20 members, 6 are drafts.

Phages represented in each track:

- Track 1 : ColdSoup_78, Amo99_78, Stillion_77, Jollymon_75, Grumio_76, Soos_71, Purplicious_75
- Track 2 : Sting_74
- Track 3 : Makar_76
- Track 4 : Brandonk123_58, Vivi2_60, Lennon_56, Sitar_56, Charming_57, Rofo_56, Tangent_57
- Track 5 : MelBins_53
- Track 6 : Phauci_45
- Track 7 : Kwekel_53
- Track 8 : Chickadee_53

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

The start number called the most often in the published annotations is 3, it was called in 11 of the 14 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Brandonk123_58, Charming_57, Chickadee_53, Kwekel_53, Lennon_56, MelBins_53, Phauci_45, Rofo_56, Sitar_56, Tangent_57, Vivi2_60,

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

-

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

- Amo99_78, ColdSoup_78, Grumio_76, Jollymon_75, Makar_76, Purplicious_75, Soos_71, Stillion_77, Sting_74,

Summary by start number:

Start 3:

- Found in 11 of 20 (55.0%) of genes in pham
- Manual Annotations of this start: 11 of 14
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Brandonk123_58 (DE1), Charming_57 (DE1), Chickadee_53 (DE3), Kwekel_53 (DE3), Lennon_56 (DE1), MelBins_53 (DE2), Phauci_45 (DE2), Rofo_56 (DE1), Sitar_56 (DE1), Tangent_57 (DE1), Vivi2_60 (DE1),

Start 10:

- Found in 8 of 20 (40.0%) of genes in pham
- Manual Annotations of this start: 1 of 14
- Called 12.5% of time when present
- Phage (with cluster) where this start called: Sting_74 (CP),

Start 12:

- Found in 1 of 20 (5.0%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Makar_76 (CP),

Start 13:

- Found in 12 of 20 (60.0%) of genes in pham
- Manual Annotations of this start: 2 of 14
- Called 58.3% of time when present
- Phage (with cluster) where this start called: Amo99_78 (CP), ColdSoup_78 (CP), Grumio_76 (CP), Jollymon_75 (CP), Purplicious_75 (CP), Soos_71 (CP), Stillion_77 (CP),

Summary by clusters:

There are 4 clusters represented in this pham: DE1, DE2, DE3, CP,

Info for manual annotations of cluster CP:

- Start number 10 was manually annotated 1 time for cluster CP.
- Start number 13 was manually annotated 2 times for cluster CP.

Info for manual annotations of cluster DE1:

- Start number 3 was manually annotated 7 times for cluster DE1.

Info for manual annotations of cluster DE2:

- Start number 3 was manually annotated 2 times for cluster DE2.

Info for manual annotations of cluster DE3:

- Start number 3 was manually annotated 2 times for cluster DE3.

Gene Information:

Gene: Amo99_78 Start: 50058, Stop: 50777, Start Num: 13

Candidate Starts for Amo99_78:

(Start: 10 @50016 has 1 MA's), (Start: 13 @50058 has 2 MA's), (25, 50136), (28, 50169), (30, 50199), (33, 50214), (37, 50244), (40, 50316), (46, 50376), (47, 50409), (48, 50445), (52, 50499), (54, 50676), (56, 50742),

Gene: Brandonk123_58 Start: 45610, Stop: 46653, Start Num: 3

Candidate Starts for Brandonk123_58:

(Start: 3 @45610 has 11 MA's), (7, 45679), (8, 45682), (9, 45688), (14, 45769), (15, 45778), (17, 45790), (19, 45817), (20, 45823), (24, 45859), (26, 45871), (44, 46075), (49, 46195), (50, 46228), (53, 46321),

Gene: Charming_57 Start: 45104, Stop: 46147, Start Num: 3

Candidate Starts for Charming_57:

(Start: 3 @45104 has 11 MA's), (7, 45173), (8, 45176), (9, 45182), (14, 45263), (15, 45272), (17, 45284), (19, 45311), (20, 45317), (24, 45353), (26, 45365), (44, 45569), (49, 45689), (50, 45722), (53, 45815),

Gene: Chickadee_53 Start: 41704, Stop: 42621, Start Num: 3

Candidate Starts for Chickadee_53:

(2, 41656), (Start: 3 @41704 has 11 MA's), (5, 41743), (7, 41773), (9, 41782), (11, 41848), (Start: 13 @41857 has 2 MA's), (27, 41974), (29, 42019), (30, 42031), (31, 42037), (34, 42049), (35, 42067), (36, 42079), (38, 42097), (39, 42148), (42, 42181), (44, 42193), (51, 42322),

Gene: ColdSoup_78 Start: 50139, Stop: 50858, Start Num: 13

Candidate Starts for ColdSoup_78:

(Start: 10 @50097 has 1 MA's), (Start: 13 @50139 has 2 MA's), (25, 50217), (28, 50250), (30, 50280), (33, 50295), (37, 50325), (40, 50397), (46, 50457), (47, 50490), (48, 50526), (52, 50580), (54, 50757), (56, 50823),

Gene: Grumio_76 Start: 49617, Stop: 50336, Start Num: 13

Candidate Starts for Grumio_76:

(Start: 10 @49575 has 1 MA's), (Start: 13 @49617 has 2 MA's), (25, 49695), (28, 49728), (30, 49758), (33, 49773), (37, 49803), (40, 49875), (46, 49935), (47, 49968), (48, 50004), (52, 50058), (54, 50235), (56, 50301),

Gene: Jollymon_75 Start: 50139, Stop: 50858, Start Num: 13

Candidate Starts for Jollymon_75:

(Start: 10 @50097 has 1 MA's), (Start: 13 @50139 has 2 MA's), (25, 50217), (28, 50250), (30, 50280), (33, 50295), (37, 50325), (40, 50397), (46, 50457), (47, 50490), (48, 50526), (52, 50580), (54, 50757), (56, 50823),

Gene: Kwekel_53 Start: 41665, Stop: 42534, Start Num: 3

Candidate Starts for Kwekel_53:

(2, 41617), (Start: 3 @41665 has 11 MA's), (5, 41704), (7, 41734), (9, 41743), (11, 41809), (Start: 13 @41818 has 2 MA's), (27, 41935), (29, 41980), (30, 41992), (38, 42010), (39, 42061), (42, 42094), (44, 42106), (51, 42235),

Gene: Lennon_56 Start: 46386, Stop: 47429, Start Num: 3

Candidate Starts for Lennon_56:

(Start: 3 @46386 has 11 MA's), (7, 46455), (8, 46458), (9, 46464), (14, 46545), (15, 46554), (17, 46566), (19, 46593), (20, 46599), (24, 46635), (26, 46647), (44, 46851), (49, 46971), (50, 47004), (53, 47097),

Gene: Makar_76 Start: 49777, Stop: 50493, Start Num: 12

Candidate Starts for Makar_76:

(4, 49654), (12, 49777), (16, 49801), (18, 49819), (21, 49858), (22, 49864), (23, 49867), (41, 50041), (43, 50065), (45, 50077), (52, 50215), (56, 50458), (57, 50461), (58, 50479),

Gene: MelBins_53 Start: 44186, Stop: 45055, Start Num: 3

Candidate Starts for MelBins_53:

(1, 43982), (Start: 3 @44186 has 11 MA's), (5, 44225), (6, 44234), (7, 44255), (8, 44258), (Start: 13 @44339 has 2 MA's), (26, 44447), (27, 44456), (32, 44501), (34, 44507), (35, 44525), (36, 44537), (37, 44543), (38, 44555), (42, 44639), (44, 44651), (55, 44987),

Gene: Phauci_45 Start: 40849, Stop: 41718, Start Num: 3

Candidate Starts for Phauci_45:

(Start: 3 @40849 has 11 MA's), (5, 40888), (6, 40897), (7, 40918), (Start: 13 @41002 has 2 MA's), (24, 41098), (26, 41110), (27, 41119), (34, 41170), (35, 41188), (36, 41200), (37, 41206), (38, 41218), (42, 41302), (44, 41314), (55, 41650),

Gene: Purplicious_75 Start: 49382, Stop: 50101, Start Num: 13

Candidate Starts for Purplicious_75:

(Start: 10 @49340 has 1 MA's), (Start: 13 @49382 has 2 MA's), (25, 49460), (28, 49493), (30, 49523), (33, 49538), (37, 49568), (40, 49640), (46, 49700), (47, 49733), (48, 49769), (52, 49823), (54, 50000), (56, 50066),

Gene: Rofo_56 Start: 45493, Stop: 46536, Start Num: 3

Candidate Starts for Rofo_56:

(Start: 3 @45493 has 11 MA's), (7, 45562), (8, 45565), (9, 45571), (14, 45652), (15, 45661), (17, 45673), (19, 45700), (20, 45706), (24, 45742), (26, 45754), (44, 45958), (49, 46078), (50, 46111), (53, 46204),

Gene: Sitar_56 Start: 46386, Stop: 47429, Start Num: 3

Candidate Starts for Sitar_56:

(Start: 3 @46386 has 11 MA's), (7, 46455), (8, 46458), (9, 46464), (14, 46545), (15, 46554), (17, 46566), (19, 46593), (20, 46599), (24, 46635), (26, 46647), (44, 46851), (49, 46971), (50, 47004), (53, 47097),

Gene: Soos_71 Start: 49343, Stop: 50062, Start Num: 13

Candidate Starts for Soos_71:

(Start: 10 @49301 has 1 MA's), (Start: 13 @49343 has 2 MA's), (25, 49421), (28, 49454), (30, 49484), (33, 49499), (37, 49529), (40, 49601), (46, 49661), (47, 49694), (48, 49730), (52, 49784), (54, 49961), (56, 50027),

Gene: Stillion_77 Start: 49940, Stop: 50659, Start Num: 13

Candidate Starts for Stillion_77:

(Start: 10 @49898 has 1 MA's), (Start: 13 @49940 has 2 MA's), (25, 50018), (28, 50051), (30, 50081), (33, 50096), (37, 50126), (40, 50198), (46, 50258), (47, 50291), (48, 50327), (52, 50381), (54, 50558), (56, 50624),

Gene: Sting_74 Start: 49740, Stop: 50501, Start Num: 10

Candidate Starts for Sting_74:

(Start: 10 @49740 has 1 MA's), (Start: 13 @49782 has 2 MA's), (25, 49860), (28, 49893), (30, 49923), (33, 49938), (37, 49968), (40, 50040), (46, 50100), (47, 50133), (48, 50169), (52, 50223), (54, 50400), (56, 50466),

Gene: Tangent_57 Start: 45116, Stop: 46159, Start Num: 3

Candidate Starts for Tangent_57:

(Start: 3 @45116 has 11 MA's), (7, 45185), (8, 45188), (9, 45194), (14, 45275), (15, 45284), (17, 45296), (19, 45323), (20, 45329), (24, 45365), (26, 45377), (44, 45581), (49, 45701), (50, 45734), (53, 45827),

Gene: Vivi2_60 Start: 46593, Stop: 47636, Start Num: 3

Candidate Starts for Vivi2_60:

(Start: 3 @46593 has 11 MA's), (7, 46662), (8, 46665), (9, 46671), (14, 46752), (15, 46761), (17, 46773), (19, 46800), (20, 46806), (24, 46842), (26, 46854), (44, 47058), (49, 47178), (50, 47211), (53, 47304),