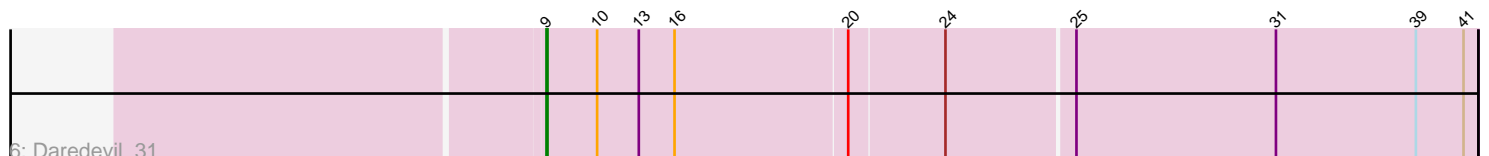
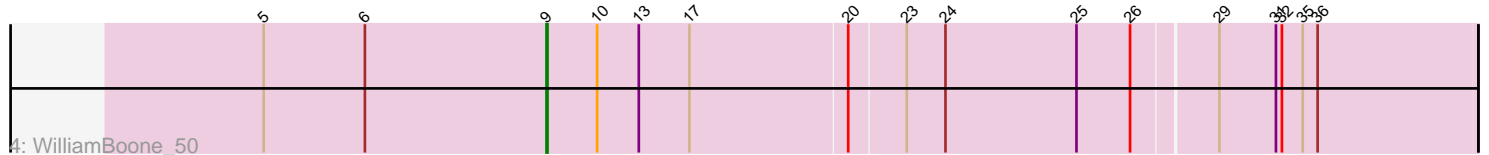
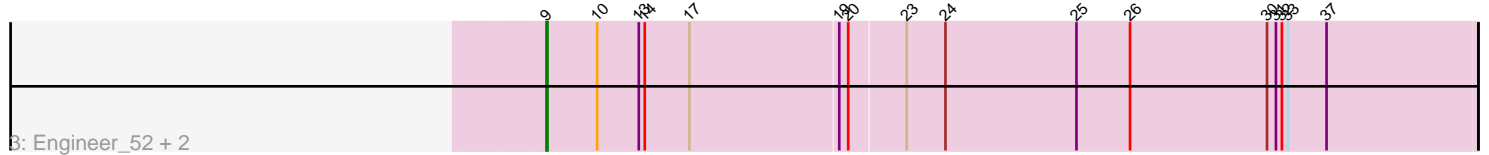
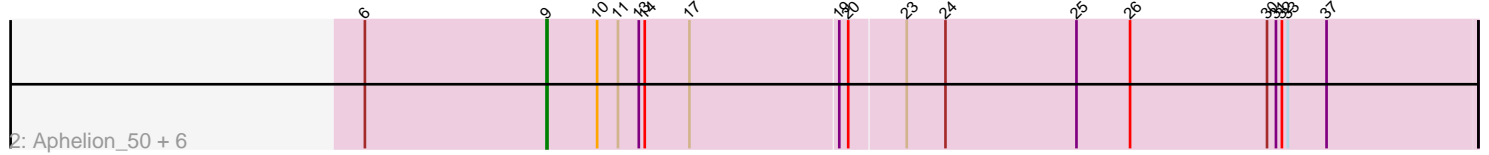
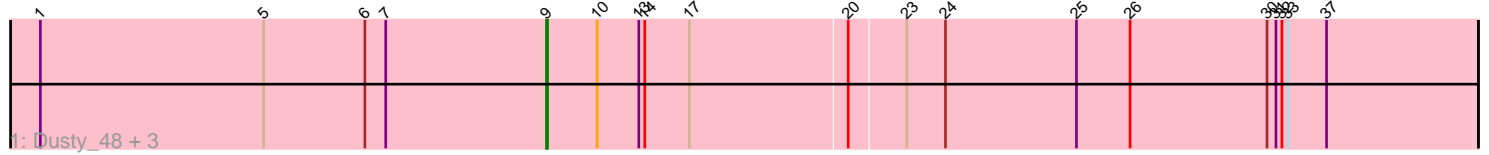


Pham 86785



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 86785 Report

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

Pham number 86785 has 21 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Dusty_48, Culver_50, Norvs_51, Abscondus_49
- Track 2 : Aphelion_50, PhinkBoden_50, Cucurbita_52, Toniann_50, Bachita_52, Miskis_52, ClubL_50
- Track 3 : Engineer_52, Smoothie_52, Lozinak_51
- Track 4 : WilliamBoone_50
- Track 5 : BrutonGaster_39
- Track 6 : Daredevil_31
- Track 7 : Bantam_32
- Track 8 : SpeedDemon_340
- Track 9 : DatBoi_33
- Track 10 : Mollymur_33

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

The start number called the most often in the published annotations is 9, it was called in 18 of the 18 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Abscondus_49, Aphelion_50, Bachita_52, Bantam_32, BrutonGaster_39, ClubL_50, Cucurbita_52, Culver_50, Daredevil_31, DatBoi_33, Dusty_48, Engineer_52, Lozinak_51, Miskis_52, Mollymur_33, Norvs_51, PhinkBoden_50, Smoothie_52, SpeedDemon_340, Toniann_50, WilliamBoone_50,

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 9:

- Found in 21 of 21 (100.0%) of genes in pham
- Manual Annotations of this start: 18 of 18

- Called 100.0% of time when present
- Phage (with cluster) where this start called: Abscondus_49 (CQ), Aphelion_50 (CQ1), Bachita_52 (CQ1), Bantam_32 (DL), BrutonGaster_39 (CQ2), ClubL_50 (CQ1), Cucurbita_52 (CQ1), Culver_50 (CQ1), Daredevil_31 (DL), DatBoi_33 (DL), Dusty_48 (CQ), Engineer_52 (CQ1), Lozinak_51 (CQ1), Miskis_52 (CQ), Mollymur_33 (DL), Norvs_51 (CQ), PhinkBoden_50 (CQ1), Smoothie_52 (CQ1), SpeedDemon_340 (DL), Toniann_50 (CQ1), WilliamBoone_50 (CQ1),

Summary by clusters:

There are 4 clusters represented in this pham: CQ2, CQ1, CQ, DL,

Info for manual annotations of cluster CQ:

- Start number 9 was manually annotated 1 time for cluster CQ.

Info for manual annotations of cluster CQ1:

- Start number 9 was manually annotated 11 times for cluster CQ1.

Info for manual annotations of cluster CQ2:

- Start number 9 was manually annotated 1 time for cluster CQ2.

Info for manual annotations of cluster DL:

- Start number 9 was manually annotated 5 times for cluster DL.

Gene Information:

Gene: Abscondus_49 Start: 31706, Stop: 32632, Start Num: 9

Candidate Starts for Abscondus_49:

(1, 31196), (5, 31421), (6, 31523), (7, 31544), (Start: 9 @31706 has 18 MA's), (10, 31757), (13, 31799), (14, 31805), (17, 31850), (20, 32006), (23, 32060), (24, 32099), (25, 32231), (26, 32285), (30, 32423), (31, 32432), (32, 32438), (33, 32444), (37, 32483),

Gene: Aphelion_50 Start: 31975, Stop: 32901, Start Num: 9

Candidate Starts for Aphelion_50:

(6, 31792), (Start: 9 @31975 has 18 MA's), (10, 32026), (11, 32047), (13, 32068), (14, 32074), (17, 32119), (19, 32266), (20, 32275), (23, 32329), (24, 32368), (25, 32500), (26, 32554), (30, 32692), (31, 32701), (32, 32707), (33, 32713), (37, 32752),

Gene: Bachita_52 Start: 32408, Stop: 33334, Start Num: 9

Candidate Starts for Bachita_52:

(6, 32225), (Start: 9 @32408 has 18 MA's), (10, 32459), (11, 32480), (13, 32501), (14, 32507), (17, 32552), (19, 32699), (20, 32708), (23, 32762), (24, 32801), (25, 32933), (26, 32987), (30, 33125), (31, 33134), (32, 33140), (33, 33146), (37, 33185),

Gene: Bantam_32 Start: 29638, Stop: 30573, Start Num: 9

Candidate Starts for Bantam_32:

(1, 29131), (4, 29272), (8, 29503), (Start: 9 @29638 has 18 MA's), (10, 29689), (13, 29731), (15, 29743), (21, 29947), (24, 30040), (25, 30172), (27, 30271), (28, 30289), (31, 30370), (32, 30376), (34, 30394), (35, 30397), (41, 30559),

Gene: BrutonGaster_39 Start: 29095, Stop: 30018, Start Num: 9

Candidate Starts for BrutonGaster_39:

(Start: 9 @29095 has 18 MA's), (10, 29146), (13, 29188), (17, 29239), (18, 29320), (20, 29395), (24, 29488), (25, 29617), (26, 29671), (29, 29761), (31, 29818), (32, 29824),

Gene: ClubL_50 Start: 31897, Stop: 32823, Start Num: 9

Candidate Starts for ClubL_50:

(6, 31714), (Start: 9 @31897 has 18 MA's), (10, 31948), (11, 31969), (13, 31990), (14, 31996), (17, 32041), (19, 32188), (20, 32197), (23, 32251), (24, 32290), (25, 32422), (26, 32476), (30, 32614), (31, 32623), (32, 32629), (33, 32635), (37, 32674),

Gene: Cucurbita_52 Start: 33267, Stop: 34193, Start Num: 9

Candidate Starts for Cucurbita_52:

(6, 33084), (Start: 9 @33267 has 18 MA's), (10, 33318), (11, 33339), (13, 33360), (14, 33366), (17, 33411), (19, 33558), (20, 33567), (23, 33621), (24, 33660), (25, 33792), (26, 33846), (30, 33984), (31, 33993), (32, 33999), (33, 34005), (37, 34044),

Gene: Culver_50 Start: 31706, Stop: 32632, Start Num: 9

Candidate Starts for Culver_50:

(1, 31196), (5, 31421), (6, 31523), (7, 31544), (Start: 9 @31706 has 18 MA's), (10, 31757), (13, 31799), (14, 31805), (17, 31850), (20, 32006), (23, 32060), (24, 32099), (25, 32231), (26, 32285), (30, 32423), (31, 32432), (32, 32438), (33, 32444), (37, 32483),

Gene: Daredevil_31 Start: 28165, Stop: 29085, Start Num: 9

Candidate Starts for Daredevil_31:

(Start: 9 @28165 has 18 MA's), (10, 28216), (13, 28258), (16, 28294), (20, 28465), (24, 28558), (25, 28681), (31, 28882), (39, 29023), (41, 29071),

Gene: DatBoi_33 Start: 30381, Stop: 31307, Start Num: 9

Candidate Starts for DatBoi_33:

(8, 30246), (Start: 9 @30381 has 18 MA's), (10, 30432), (13, 30474), (15, 30486), (20, 30681), (22, 30723), (24, 30774), (25, 30906), (31, 31104), (32, 31110), (33, 31116), (40, 31257), (41, 31293),

Gene: Dusty_48 Start: 31706, Stop: 32632, Start Num: 9

Candidate Starts for Dusty_48:

(1, 31196), (5, 31421), (6, 31523), (7, 31544), (Start: 9 @31706 has 18 MA's), (10, 31757), (13, 31799), (14, 31805), (17, 31850), (20, 32006), (23, 32060), (24, 32099), (25, 32231), (26, 32285), (30, 32423), (31, 32432), (32, 32438), (33, 32444), (37, 32483),

Gene: Engineer_52 Start: 32381, Stop: 33307, Start Num: 9

Candidate Starts for Engineer_52:

(Start: 9 @32381 has 18 MA's), (10, 32432), (13, 32474), (14, 32480), (17, 32525), (19, 32672), (20, 32681), (23, 32735), (24, 32774), (25, 32906), (26, 32960), (30, 33098), (31, 33107), (32, 33113), (33, 33119), (37, 33158),

Gene: Lozinak_51 Start: 32436, Stop: 33362, Start Num: 9

Candidate Starts for Lozinak_51:

(Start: 9 @32436 has 18 MA's), (10, 32487), (13, 32529), (14, 32535), (17, 32580), (19, 32727), (20, 32736), (23, 32790), (24, 32829), (25, 32961), (26, 33015), (30, 33153), (31, 33162), (32, 33168), (33, 33174), (37, 33213),

Gene: Miskis_52 Start: 31741, Stop: 32667, Start Num: 9

Candidate Starts for Miskis_52:

(6, 31558), (Start: 9 @31741 has 18 MA's), (10, 31792), (11, 31813), (13, 31834), (14, 31840), (17, 31885), (19, 32032), (20, 32041), (23, 32095), (24, 32134), (25, 32266), (26, 32320), (30, 32458), (31, 32467), (32, 32473), (33, 32479), (37, 32518),

Gene: Mollymur_33 Start: 30844, Stop: 31776, Start Num: 9

Candidate Starts for Mollymur_33:

(3, 30412), (8, 30709), (Start: 9 @30844 has 18 MA's), (10, 30895), (12, 30919), (13, 30937), (15, 30949), (16, 30973), (21, 31153), (24, 31246), (25, 31372), (26, 31426), (29, 31516), (31, 31573), (38, 31666), (41, 31762),

Gene: Norvs_51 Start: 31980, Stop: 32906, Start Num: 9

Candidate Starts for Norvs_51:

(1, 31470), (5, 31695), (6, 31797), (7, 31818), (Start: 9 @31980 has 18 MA's), (10, 32031), (13, 32073), (14, 32079), (17, 32124), (20, 32280), (23, 32334), (24, 32373), (25, 32505), (26, 32559), (30, 32697), (31, 32706), (32, 32712), (33, 32718), (37, 32757),

Gene: PhinkBoden_50 Start: 32361, Stop: 33287, Start Num: 9

Candidate Starts for PhinkBoden_50:

(6, 32178), (Start: 9 @32361 has 18 MA's), (10, 32412), (11, 32433), (13, 32454), (14, 32460), (17, 32505), (19, 32652), (20, 32661), (23, 32715), (24, 32754), (25, 32886), (26, 32940), (30, 33078), (31, 33087), (32, 33093), (33, 33099), (37, 33138),

Gene: Smoothie_52 Start: 32436, Stop: 33362, Start Num: 9

Candidate Starts for Smoothie_52:

(Start: 9 @32436 has 18 MA's), (10, 32487), (13, 32529), (14, 32535), (17, 32580), (19, 32727), (20, 32736), (23, 32790), (24, 32829), (25, 32961), (26, 33015), (30, 33153), (31, 33162), (32, 33168), (33, 33174), (37, 33213),

Gene: SpeedDemon_340 Start: 31496, Stop: 32422, Start Num: 9

Candidate Starts for SpeedDemon_340:

(1, 30989), (2, 31046), (4, 31130), (8, 31361), (Start: 9 @31496 has 18 MA's), (10, 31547), (13, 31589), (15, 31601), (20, 31796), (22, 31838), (24, 31889), (25, 32021), (27, 32120), (28, 32138), (31, 32219), (32, 32225), (34, 32243), (35, 32246), (41, 32408),

Gene: Toniann_50 Start: 31923, Stop: 32849, Start Num: 9

Candidate Starts for Toniann_50:

(6, 31740), (Start: 9 @31923 has 18 MA's), (10, 31974), (11, 31995), (13, 32016), (14, 32022), (17, 32067), (19, 32214), (20, 32223), (23, 32277), (24, 32316), (25, 32448), (26, 32502), (30, 32640), (31, 32649), (32, 32655), (33, 32661), (37, 32700),

Gene: WilliamBoone_50 Start: 31287, Stop: 32201, Start Num: 9

Candidate Starts for WilliamBoone_50:

(5, 31002), (6, 31104), (Start: 9 @31287 has 18 MA's), (10, 31338), (13, 31380), (17, 31431), (20, 31587), (23, 31641), (24, 31680), (25, 31812), (26, 31866), (29, 31944), (31, 32001), (32, 32007), (35, 32028), (36, 32043),