Pham 347992


1: Dusty_56 + 11
2: WilliamBoone_57
3: Smoothie_59
4: BrutonGaster_46
5: OneUp_51
6: Toast_31 + 2
7: William_31
8: Bantam_39 + 1
9: Mollymur_40
10: DatBoi_40

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 347992 Report

This analysis was run 11/14/26 on database version 672.

Pham number 347992 has 24 members, 1 are drafts.

Phages represented in each track:
• Track 1 : Dusty_56, Cucurbita_59, Geeche_56, Aphelion_57, Bachita_59, Miskis_55, Abscondus_56, Norvs_58, PhinkBoden_57, Engineer_59, Lozinak_58, ClubL_57
• Track 2 : WilliamBoone_57
• Track 3 : Smoothie_59
• Track 4 : BrutonGaster_46
• Track 5 : OneUp_51
• Track 6 : Toast_31, PCoral7_31, Fairfaxidum_30
• Track 7 : William_31
• Track 8 : Bantam_39, SpeedDemon_410
• Track 9 : Mollymur_40
• Track 10 : DatBoi_40

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

The start number called the most often in the published annotations is 4, it was called in 22 of the 23 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Abscondus_56, Aphelion_57, Bachita_59, Bantam_39, BrutonGaster_46, ClubL_57, Cucurbita_59, DatBoi_40, Dusty_56, Engineer_59, Fairfaxidum_30, Geeche_56, Lozinak_58, Miskis_55, Mollymur_40, Norvs_58, OneUp_51, PCoral7_31, PhinkBoden_57, SpeedDemon_410, Toast_31, WilliamBoone_57, William_31,

Genes that have the "Most Annotated" start but do not call it:
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Genes that do not have the "Most Annotated" start:
• Smoothie_59,

Summary by start number:

Start 4:
• Found in 23 of 24 (95.8%) of genes in pham

• Manual Annotations of this start: 22 of 23
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Abscondus_56 (CQ1), Aphelion_57 (CQ1), Bachita_59 (CQ1), Bantam_39 (DL), BrutonGaster_46 (CQ2), ClubL_57 (CQ1), Cucurbita_59 (CQ1), DatBoi_40 (DL), Dusty_56 (CQ1), Engineer_59 (CQ1), Fairfaxidum_30 (CV), Geeche_56 (CQ1), Lozinak_58 (CQ1), Miskis_55 (CQ1), Mollymur_40 (DL), Norvs_58 (CQ1), OneUp_51 (CQ2), PCoral7_31 (CV), PhinkBoden_57 (CQ1), SpeedDemon_410 (DL), Toast_31 (CV), WilliamBoone_57 (CQ1), William_31 (CV),

Start 7:
• Found in 16 of 24 (66.7%) of genes in pham
• Manual Annotations of this start: 1 of 23
• Called 6.2% of time when present
• Phage (with cluster) where this start called: Smoothie_59 (CQ1),

Summary by clusters:

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

Info for manual annotations of cluster CQ1:
•Start number 4 was manually annotated 12 times for cluster CQ1.
•Start number 7 was manually annotated 1 time for cluster CQ1.

Info for manual annotations of cluster CQ2:
•Start number 4 was manually annotated 2 times for cluster CQ2.

Info for manual annotations of cluster CV:
•Start number 4 was manually annotated 4 times for cluster CV.

Info for manual annotations of cluster DL:
•Start number 4 was manually annotated 4 times for cluster DL.

Gene Information:

Gene: Abscondus_56 Start: 36969, Stop: 37688, Start Num: 4
Candidate Starts for Abscondus_56:
(Start: 4 @36969 has 22 MA's), (6, 36993), (Start: 7 @37029 has 1 MA's), (8, 37047), (9, 37059), (11, 37092), (12, 37107), (13, 37143), (15, 37170), (16, 37173), (19, 37221), (21, 37284), (23, 37308), (30, 37425), (32, 37521), (38, 37677),

Gene: Aphelion_57 Start: 37238, Stop: 37957, Start Num: 4
Candidate Starts for Aphelion_57:
(Start: 4 @37238 has 22 MA's), (6, 37262), (Start: 7 @37298 has 1 MA's), (8, 37316), (9, 37328), (11, 37361), (12, 37376), (13, 37412), (15, 37439), (16, 37442), (19, 37490), (21, 37553), (23, 37577), (30, 37694), (32, 37790), (38, 37946),

Gene: Bachita_59 Start: 37671, Stop: 38390, Start Num: 4
Candidate Starts for Bachita_59:
(Start: 4 @37671 has 22 MA's), (6, 37695), (Start: 7 @37731 has 1 MA's), (8, 37749), (9, 37761), (11, 37794), (12, 37809), (13, 37845), (15, 37872), (16, 37875), (19, 37923), (21, 37986), (23, 38010), (30,

38127), (32, 38223), (38, 38379),

Gene: Bantam_39 Start: 34863, Stop: 35567, Start Num: 4
Candidate Starts for Bantam_39:
(Start: 4 @34863 has 22 MA's), (5, 34881), (9, 34953), (22, 35175), (36, 35502),

Gene: BrutonGaster_46 Start: 34284, Stop: 34997, Start Num: 4
Candidate Starts for BrutonGaster_46:
(Start: 4 @34284 has 22 MA's), (Start: 7 @34344 has 1 MA's), (10, 34392), (18, 34527), (24, 34629), (31, 34809), (33, 34860), (34, 34878), (36, 34926), (38, 34986), (39, 34989),

Gene: ClubL_57 Start: 37160, Stop: 37879, Start Num: 4
Candidate Starts for ClubL_57:
(Start: 4 @37160 has 22 MA's), (6, 37184), (Start: 7 @37220 has 1 MA's), (8, 37238), (9, 37250), (11, 37283), (12, 37298), (13, 37334), (15, 37361), (16, 37364), (19, 37412), (21, 37475), (23, 37499), (30, 37616), (32, 37712), (38, 37868),

Gene: Cucurbita_59 Start: 38530, Stop: 39249, Start Num: 4
Candidate Starts for Cucurbita_59:
(Start: 4 @38530 has 22 MA's), (6, 38554), (Start: 7 @38590 has 1 MA's), (8, 38608), (9, 38620), (11, 38653), (12, 38668), (13, 38704), (15, 38731), (16, 38734), (19, 38782), (21, 38845), (23, 38869), (30, 38986), (32, 39082), (38, 39238),

Gene: DatBoi_40 Start: 35520, Stop: 36224, Start Num: 4
Candidate Starts for DatBoi_40:
(Start: 4 @35520 has 22 MA's), (5, 35538), (6, 35544), (9, 35610), (17, 35721), (25, 35880), (36, 36159),

Gene: Dusty_56 Start: 36969, Stop: 37688, Start Num: 4
Candidate Starts for Dusty_56:
(Start: 4 @36969 has 22 MA's), (6, 36993), (Start: 7 @37029 has 1 MA's), (8, 37047), (9, 37059), (11, 37092), (12, 37107), (13, 37143), (15, 37170), (16, 37173), (19, 37221), (21, 37284), (23, 37308), (30, 37425), (32, 37521), (38, 37677),

Gene: Engineer_59 Start: 37644, Stop: 38363, Start Num: 4
Candidate Starts for Engineer_59:
(Start: 4 @37644 has 22 MA's), (6, 37668), (Start: 7 @37704 has 1 MA's), (8, 37722), (9, 37734), (11, 37767), (12, 37782), (13, 37818), (15, 37845), (16, 37848), (19, 37896), (21, 37959), (23, 37983), (30, 38100), (32, 38196), (38, 38352),

Gene: Fairfaxidum_30 Start: 24917, Stop: 25642, Start Num: 4
Candidate Starts for Fairfaxidum_30:
(1, 24737), (2, 24830), (3, 24842), (Start: 4 @24917 has 22 MA's), (5, 24938), (6, 24944), (10, 25028), (21, 25232), (35, 25544),

Gene: Geeche_56 Start: 37060, Stop: 37779, Start Num: 4
Candidate Starts for Geeche_56:
(Start: 4 @37060 has 22 MA's), (6, 37084), (Start: 7 @37120 has 1 MA's), (8, 37138), (9, 37150), (11, 37183), (12, 37198), (13, 37234), (15, 37261), (16, 37264), (19, 37312), (21, 37375), (23, 37399), (30, 37516), (32, 37612), (38, 37768),

Gene: Lozinak_58 Start: 37699, Stop: 38418, Start Num: 4
Candidate Starts for Lozinak_58:

(Start: 4 @37699 has 22 MA's), (6, 37723), (Start: 7 @37759 has 1 MA's), (8, 37777), (9, 37789), (11, 37822), (12, 37837), (13, 37873), (15, 37900), (16, 37903), (19, 37951), (21, 38014), (23, 38038), (30, 38155), (32, 38251), (38, 38407),

Gene: Miskis_55 Start: 37004, Stop: 37723, Start Num: 4
Candidate Starts for Miskis_55:
(Start: 4 @37004 has 22 MA's), (6, 37028), (Start: 7 @37064 has 1 MA's), (8, 37082), (9, 37094), (11, 37127), (12, 37142), (13, 37178), (15, 37205), (16, 37208), (19, 37256), (21, 37319), (23, 37343), (30, 37460), (32, 37556), (38, 37712),

Gene: Mollymur_40 Start: 36053, Stop: 36757, Start Num: 4
Candidate Starts for Mollymur_40:
(Start: 4 @36053 has 22 MA's), (5, 36071), (9, 36143), (10, 36161), (11, 36176), (20, 36317), (24, 36386), (36, 36692),

Gene: Norvs_58 Start: 37243, Stop: 37962, Start Num: 4
Candidate Starts for Norvs_58:
(Start: 4 @37243 has 22 MA's), (6, 37267), (Start: 7 @37303 has 1 MA's), (8, 37321), (9, 37333), (11, 37366), (12, 37381), (13, 37417), (15, 37444), (16, 37447), (19, 37495), (21, 37558), (23, 37582), (30, 37699), (32, 37795), (38, 37951),

Gene: OneUp_51 Start: 34604, Stop: 35317, Start Num: 4
Candidate Starts for OneUp_51:
(Start: 4 @34604 has 22 MA's), (6, 34628), (Start: 7 @34664 has 1 MA's), (10, 34712), (14, 34784), (31, 35129), (36, 35246), (38, 35306),

Gene: PCoral7_31 Start: 24834, Stop: 25559, Start Num: 4
Candidate Starts for PCoral7_31:
(1, 24654), (2, 24747), (3, 24759), (Start: 4 @24834 has 22 MA's), (5, 24855), (6, 24861), (10, 24945), (21, 25149), (35, 25461),

Gene: PhinkBoden_57 Start: 37624, Stop: 38343, Start Num: 4
Candidate Starts for PhinkBoden_57:
(Start: 4 @37624 has 22 MA's), (6, 37648), (Start: 7 @37684 has 1 MA's), (8, 37702), (9, 37714), (11, 37747), (12, 37762), (13, 37798), (15, 37825), (16, 37828), (19, 37876), (21, 37939), (23, 37963), (30, 38080), (32, 38176), (38, 38332),

Gene: Smoothie_59 Start: 37759, Stop: 38418, Start Num: 7
Candidate Starts for Smoothie_59:
(Start: 7 @37759 has 1 MA's), (8, 37777), (9, 37789), (11, 37822), (12, 37837), (13, 37873), (15, 37900), (16, 37903), (19, 37951), (21, 38014), (23, 38038), (30, 38155), (32, 38251), (38, 38407),

Gene: SpeedDemon_410 Start: 36640, Stop: 37344, Start Num: 4
Candidate Starts for SpeedDemon_410:
(Start: 4 @36640 has 22 MA's), (5, 36658), (9, 36730), (22, 36952), (36, 37279),

Gene: Toast_31 Start: 24834, Stop: 25559, Start Num: 4
Candidate Starts for Toast_31:
(1, 24654), (2, 24747), (3, 24759), (Start: 4 @24834 has 22 MA's), (5, 24855), (6, 24861), (10, 24945), (21, 25149), (35, 25461),

Gene: William_31 Start: 24660, Stop: 25385, Start Num: 4
Candidate Starts for William_31:

(Start: 4 @24660 has 22 MA's), (5, 24681), (6, 24687), (10, 24771), (21, 24975), (29, 25104), (35, 25287), (37, 25332),

Gene: WilliamBoone_57 Start: 36532, Stop: 37251, Start Num: 4
Candidate Starts for WilliamBoone_57:
(Start: 4 @36532 has 22 MA's), (6, 36556), (Start: 7 @36592 has 1 MA's), (8, 36610), (9, 36622), (11, 36655), (12, 36670), (13, 36706), (20, 36808), (23, 36871), (26, 36916), (27, 36964), (28, 36967), (30, 36988), (32, 37084), (36, 37180), (38, 37240),