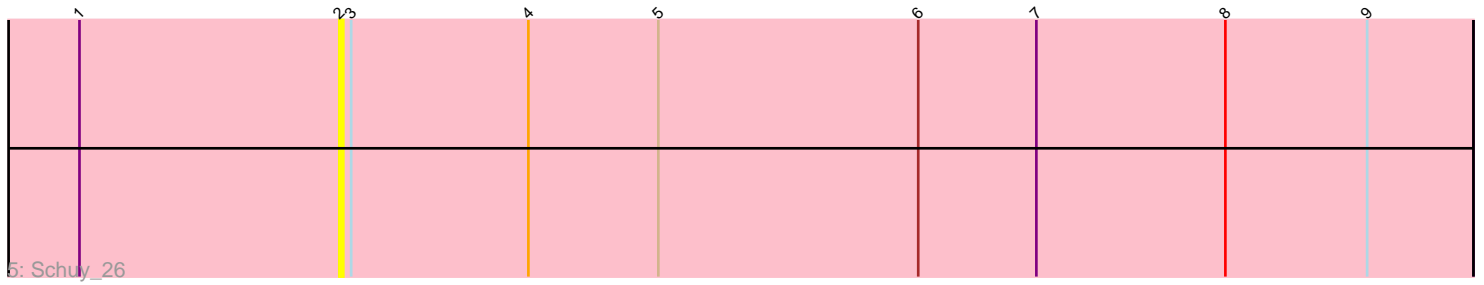
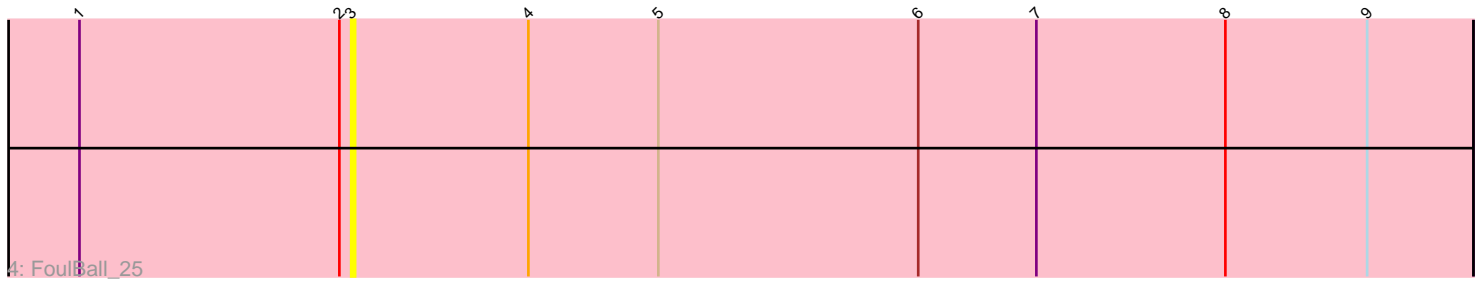
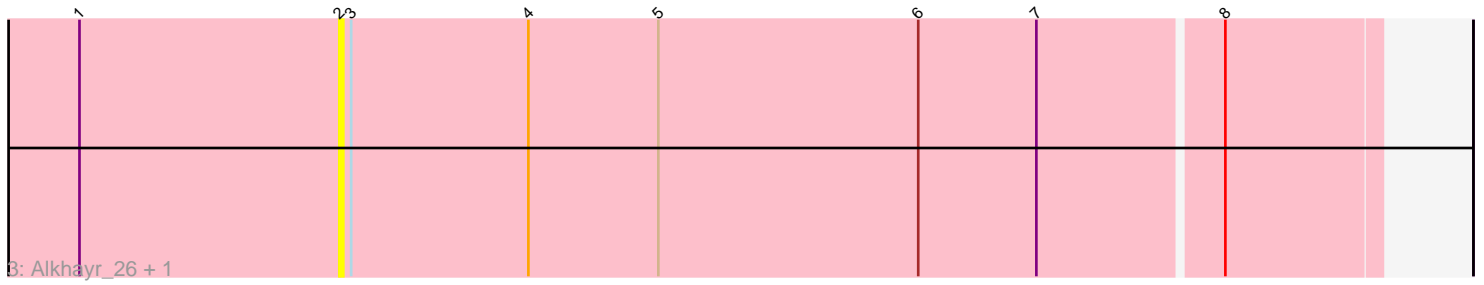
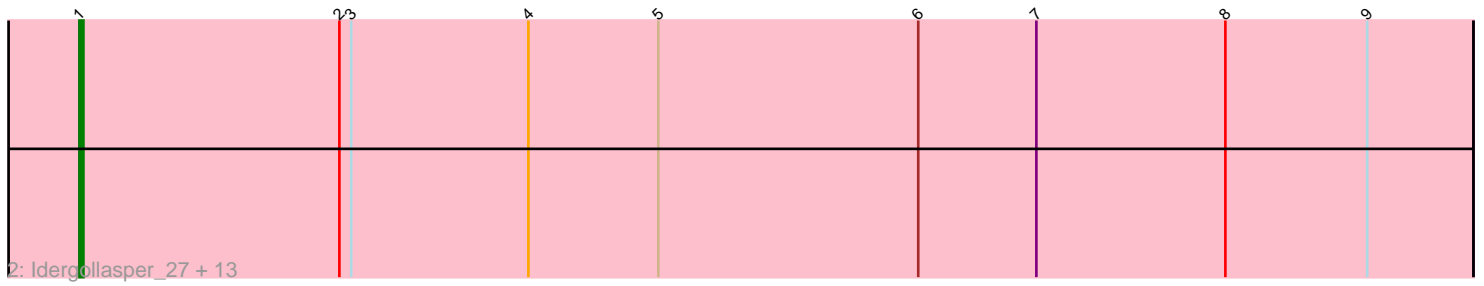
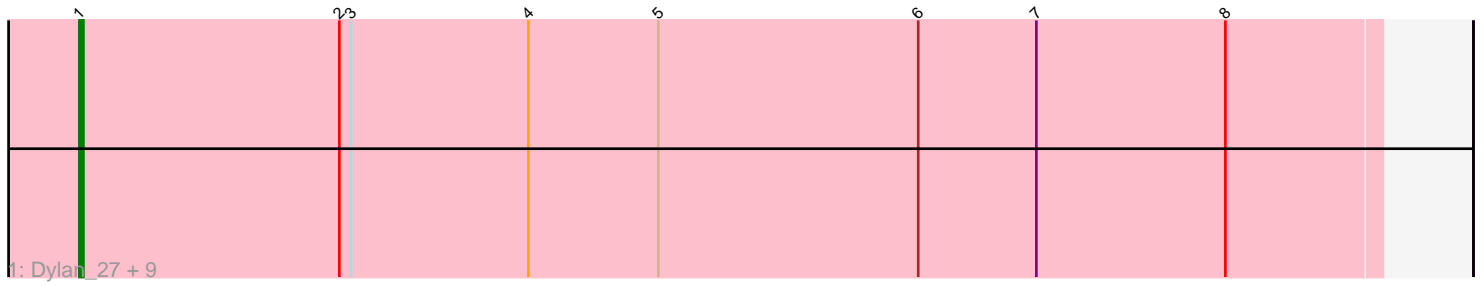


Pham 3438



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 3438 Report

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

Pham number 3438 has 28 members, 6 are drafts.

Phages represented in each track:

- Track 1 : Dylan_27, Zakhe101_28, Wildflower_26, Ashwin_27, YungJamal_30, Winget_28, Corndog_29, Smooch_30, Shida_28, Firecracker_28
- Track 2 : Idergollasper_27, JangDynasty_27, Vorrps_27, Familton_28, MadKillah_29, NiebruSaylor_27, TelAviv_25, SchoolBus_27, Mori_27, Ryadel_30, Catdawg_27, Murai_28, Krili_27, Blessica_28
- Track 3 : Alkhayr_26, Bora_25
- Track 4 : FoulBall_25
- Track 5 : Schuy_26

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 22 of the 22 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Ashwin_27, Blessica_28, Catdawg_27, Corndog_29, Dylan_27, Familton_28, Firecracker_28, Idergollasper_27, JangDynasty_27, Krili_27, MadKillah_29, Mori_27, Murai_28, NiebruSaylor_27, Ryadel_30, SchoolBus_27, Shida_28, Smooch_30, TelAviv_25, Vorrps_27, Wildflower_26, Winget_28, YungJamal_30, Zakhe101_28,

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

- Alkhayr_26, Bora_25, FoulBall_25, Schuy_26,

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

•

Summary by start number:

Start 1:

- Found in 28 of 28 (100.0%) of genes in pham
- Manual Annotations of this start: 22 of 22
- Called 85.7% of time when present
- Phage (with cluster) where this start called: Ashwin_27 (O), Blessica_28 (O), Catdawg_27 (O), Corndog_29 (O), Dylan_27 (O), Familton_28 (O), Firecracker_28

(O), Idergollasper_27 (O), JangDynasty_27 (O), Krili_27 (O), MadKillah_29 (O), Mori_27 (O), Murai_28 (O), NiebruSaylor_27 (O), Ryadel_30 (O), SchoolBus_27 (O), Shida_28 (O), Smooch_30 (O), TelAviv_25 (O), Vorrps_27 (O), Wildflower_26 (O), Winget_28 (O), YungJamal_30 (O), Zakhe101_28 (O),

Start 2:

- Found in 28 of 28 (100.0%) of genes in pham
- No Manual Annotations of this start.
- Called 10.7% of time when present
- Phage (with cluster) where this start called: Alkhayr_26 (O), Bora_25 (O), Schuy_26 (O),

Start 3:

- Found in 28 of 28 (100.0%) of genes in pham
- No Manual Annotations of this start.
- Called 3.6% of time when present
- Phage (with cluster) where this start called: FoulBall_25 (O),

Summary by clusters:

There is one cluster represented in this pham: O

Info for manual annotations of cluster O:

- Start number 1 was manually annotated 22 times for cluster O.

Gene Information:

Gene: Alkhayr_26 Start: 12411, Stop: 12671, Start Num: 2

Candidate Starts for Alkhayr_26:

(Start: 1 @12345 has 22 MA's), (2, 12411), (3, 12414), (4, 12459), (5, 12492), (6, 12558), (7, 12588), (8, 12633),

Gene: Ashwin_27 Start: 12370, Stop: 12699, Start Num: 1

Candidate Starts for Ashwin_27:

(Start: 1 @12370 has 22 MA's), (2, 12436), (3, 12439), (4, 12484), (5, 12517), (6, 12583), (7, 12613), (8, 12661),

Gene: Blessica_28 Start: 12368, Stop: 12721, Start Num: 1

Candidate Starts for Blessica_28:

(Start: 1 @12368 has 22 MA's), (2, 12434), (3, 12437), (4, 12482), (5, 12515), (6, 12581), (7, 12611), (8, 12659), (9, 12695),

Gene: Bora_25 Start: 11889, Stop: 12152, Start Num: 2

Candidate Starts for Bora_25:

(Start: 1 @11823 has 22 MA's), (2, 11889), (3, 11892), (4, 11937), (5, 11970), (6, 12036), (7, 12066), (8, 12114),

Gene: Catdawg_27 Start: 11974, Stop: 12327, Start Num: 1

Candidate Starts for Catdawg_27:

(Start: 1 @11974 has 22 MA's), (2, 12040), (3, 12043), (4, 12088), (5, 12121), (6, 12187), (7, 12217), (8, 12265), (9, 12301),

Gene: Corndog_29 Start: 12449, Stop: 12778, Start Num: 1

Candidate Starts for Corndog_29:

(Start: 1 @12449 has 22 MA's), (2, 12515), (3, 12518), (4, 12563), (5, 12596), (6, 12662), (7, 12692), (8, 12740),

Gene: Dylan_27 Start: 12175, Stop: 12504, Start Num: 1

Candidate Starts for Dylan_27:

(Start: 1 @12175 has 22 MA's), (2, 12241), (3, 12244), (4, 12289), (5, 12322), (6, 12388), (7, 12418), (8, 12466),

Gene: Familton_28 Start: 11975, Stop: 12328, Start Num: 1

Candidate Starts for Familton_28:

(Start: 1 @11975 has 22 MA's), (2, 12041), (3, 12044), (4, 12089), (5, 12122), (6, 12188), (7, 12218), (8, 12266), (9, 12302),

Gene: Firecracker_28 Start: 12073, Stop: 12402, Start Num: 1

Candidate Starts for Firecracker_28:

(Start: 1 @12073 has 22 MA's), (2, 12139), (3, 12142), (4, 12187), (5, 12220), (6, 12286), (7, 12316), (8, 12364),

Gene: FoulBall_25 Start: 12044, Stop: 12328, Start Num: 3

Candidate Starts for FoulBall_25:

(Start: 1 @11975 has 22 MA's), (2, 12041), (3, 12044), (4, 12089), (5, 12122), (6, 12188), (7, 12218), (8, 12266), (9, 12302),

Gene: Idergollasper_27 Start: 11975, Stop: 12328, Start Num: 1

Candidate Starts for Idergollasper_27:

(Start: 1 @11975 has 22 MA's), (2, 12041), (3, 12044), (4, 12089), (5, 12122), (6, 12188), (7, 12218), (8, 12266), (9, 12302),

Gene: JangDynasty_27 Start: 12064, Stop: 12417, Start Num: 1

Candidate Starts for JangDynasty_27:

(Start: 1 @12064 has 22 MA's), (2, 12130), (3, 12133), (4, 12178), (5, 12211), (6, 12277), (7, 12307), (8, 12355), (9, 12391),

Gene: Krili_27 Start: 12139, Stop: 12492, Start Num: 1

Candidate Starts for Krili_27:

(Start: 1 @12139 has 22 MA's), (2, 12205), (3, 12208), (4, 12253), (5, 12286), (6, 12352), (7, 12382), (8, 12430), (9, 12466),

Gene: MadKillah_29 Start: 12367, Stop: 12720, Start Num: 1

Candidate Starts for MadKillah_29:

(Start: 1 @12367 has 22 MA's), (2, 12433), (3, 12436), (4, 12481), (5, 12514), (6, 12580), (7, 12610), (8, 12658), (9, 12694),

Gene: Mori_27 Start: 12010, Stop: 12363, Start Num: 1

Candidate Starts for Mori_27:

(Start: 1 @12010 has 22 MA's), (2, 12076), (3, 12079), (4, 12124), (5, 12157), (6, 12223), (7, 12253), (8, 12301), (9, 12337),

Gene: Murai_28 Start: 12206, Stop: 12559, Start Num: 1

Candidate Starts for Murai_28:

(Start: 1 @12206 has 22 MA's), (2, 12272), (3, 12275), (4, 12320), (5, 12353), (6, 12419), (7, 12449), (8, 12497), (9, 12533),

Gene: NiebruSaylor_27 Start: 12011, Stop: 12364, Start Num: 1

Candidate Starts for NiebruSaylor_27:

(Start: 1 @12011 has 22 MA's), (2, 12077), (3, 12080), (4, 12125), (5, 12158), (6, 12224), (7, 12254), (8, 12302), (9, 12338),

Gene: Ryadel_30 Start: 12788, Stop: 13141, Start Num: 1

Candidate Starts for Ryadel_30:

(Start: 1 @12788 has 22 MA's), (2, 12854), (3, 12857), (4, 12902), (5, 12935), (6, 13001), (7, 13031), (8, 13079), (9, 13115),

Gene: SchoolBus_27 Start: 11975, Stop: 12328, Start Num: 1

Candidate Starts for SchoolBus_27:

(Start: 1 @11975 has 22 MA's), (2, 12041), (3, 12044), (4, 12089), (5, 12122), (6, 12188), (7, 12218), (8, 12266), (9, 12302),

Gene: Schuy_26 Start: 12433, Stop: 12720, Start Num: 2

Candidate Starts for Schuy_26:

(Start: 1 @12367 has 22 MA's), (2, 12433), (3, 12436), (4, 12481), (5, 12514), (6, 12580), (7, 12610), (8, 12658), (9, 12694),

Gene: Shida_28 Start: 12272, Stop: 12601, Start Num: 1

Candidate Starts for Shida_28:

(Start: 1 @12272 has 22 MA's), (2, 12338), (3, 12341), (4, 12386), (5, 12419), (6, 12485), (7, 12515), (8, 12563),

Gene: Smooch_30 Start: 13526, Stop: 13855, Start Num: 1

Candidate Starts for Smooch_30:

(Start: 1 @13526 has 22 MA's), (2, 13592), (3, 13595), (4, 13640), (5, 13673), (6, 13739), (7, 13769), (8, 13817),

Gene: TelAviv_25 Start: 11972, Stop: 12325, Start Num: 1

Candidate Starts for TelAviv_25:

(Start: 1 @11972 has 22 MA's), (2, 12038), (3, 12041), (4, 12086), (5, 12119), (6, 12185), (7, 12215), (8, 12263), (9, 12299),

Gene: Vorrrps_27 Start: 12011, Stop: 12364, Start Num: 1

Candidate Starts for Vorrrps_27:

(Start: 1 @12011 has 22 MA's), (2, 12077), (3, 12080), (4, 12125), (5, 12158), (6, 12224), (7, 12254), (8, 12302), (9, 12338),

Gene: Wildflower_26 Start: 12034, Stop: 12363, Start Num: 1

Candidate Starts for Wildflower_26:

(Start: 1 @12034 has 22 MA's), (2, 12100), (3, 12103), (4, 12148), (5, 12181), (6, 12247), (7, 12277), (8, 12325),

Gene: Winget_28 Start: 12248, Stop: 12577, Start Num: 1

Candidate Starts for Winget_28:

(Start: 1 @12248 has 22 MA's), (2, 12314), (3, 12317), (4, 12362), (5, 12395), (6, 12461), (7, 12491), (8, 12539),

Gene: YungJamal_30 Start: 12329, Stop: 12658, Start Num: 1

Candidate Starts for YungJamal_30:

(Start: 1 @12329 has 22 MA's), (2, 12395), (3, 12398), (4, 12443), (5, 12476), (6, 12542), (7, 12572), (8, 12620),

Gene: Zakhe101_28 Start: 12179, Stop: 12508, Start Num: 1

Candidate Starts for Zakhe101_28:

(Start: 1 @12179 has 22 MA's), (2, 12245), (3, 12248), (4, 12293), (5, 12326), (6, 12392), (7, 12422), (8, 12470),