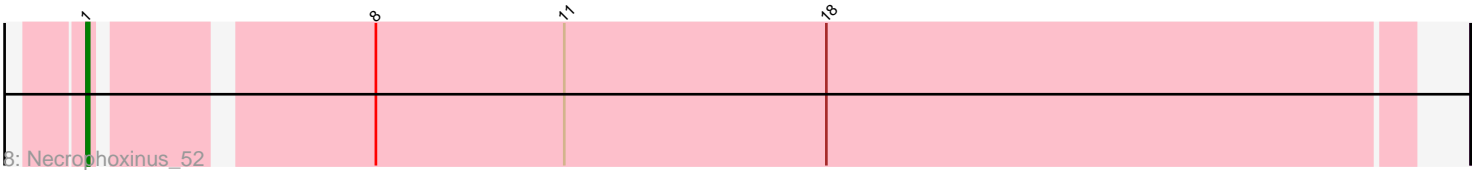
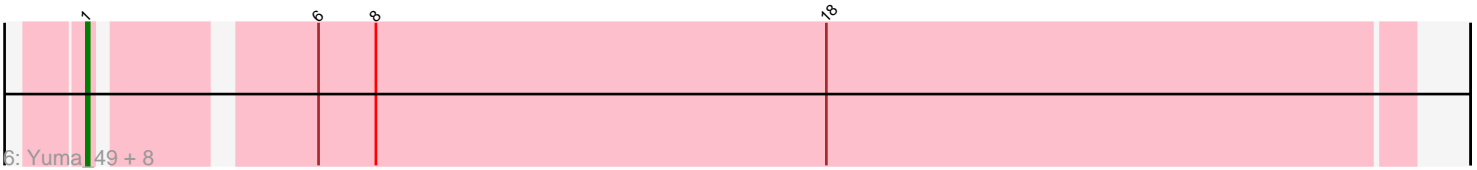
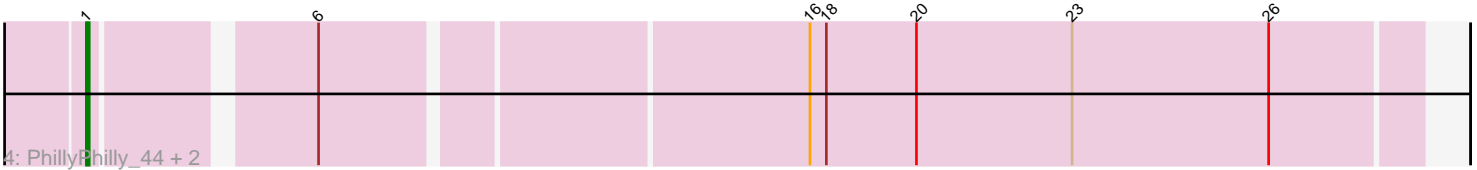
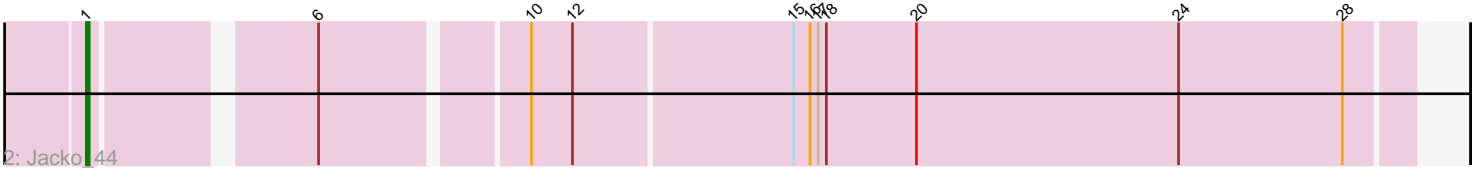
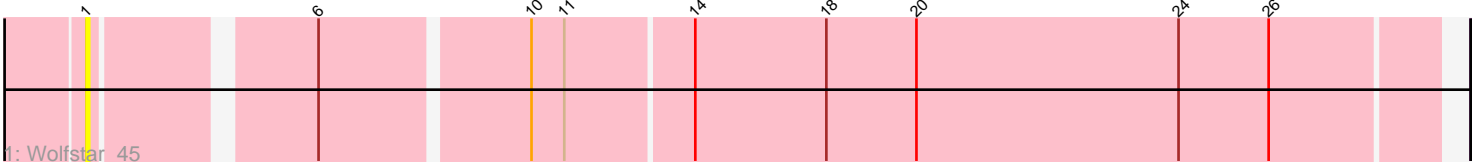


Pham 3286



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 3286 Report

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

WARNING: Pham size does not match number of genes in report. Either unphamerated genes have been added (by you) or starterator has removed genes due to invalid start codon.

Pham number 3286 has 26 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Wolfstar_45
- Track 2 : Jacko_44
- Track 3 : OlinDD_42, Hortus1_42, Pioneer3_42, Alleb_43, Tandem_42, Platte_42
- Track 4 : PhillyPhilly_44, DejaVu_46, Pavlo_43
- Track 5 : Roman_45, Hubbs_45, Lupine_43
- Track 6 : Yuma_49, Fork_46, DustyDino_53, Musetta_50, Welcome_51, RunningBrook_52, Lyell_50, Erenyeager_50, StevieWelch_50
- Track 7 : ASegato_49
- Track 8 : Necrophoxinus_52
- Track 9 : CN1A_47

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:

- ASegato_49, Alleb_43, DejaVu_46, DustyDino_53, Erenyeager_50, Fork_46, Hortus1_42, Hubbs_45, Jacko_44, Lupine_43, Lyell_50, Musetta_50, Necrophoxinus_52, OlinDD_42, Pavlo_43, PhillyPhilly_44, Pioneer3_42, Platte_42, Roman_45, RunningBrook_52, StevieWelch_50, Tandem_42, Welcome_51, Wolfstar_45, Yuma_49,

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

-

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

- CN1A_47,

Summary by start number:

Start 1:

- Found in 25 of 26 (96.2%) of genes in pham
- Manual Annotations of this start: 22 of 22
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ASegato_49 (ED2), Alleb_43 (ED1), DejaVu_46 (ED1), DustyDino_53 (ED2), Erenyeager_50 (ED2), Fork_46 (ED2), Hortus1_42 (ED1), Hubbs_45 (ED1), Jacko_44 (ED1), Lupine_43 (ED1), Lyell_50 (ED2), Musetta_50 (ED2), Necrophoxinus_52 (ED2), OlinDD_42 (ED1), Pavlo_43 (ED1), PhillyPhilly_44 (ED1), Pioneer3_42 (ED1), Platte_42 (ED1), Roman_45 (ED1), RunningBrook_52 (ED2), StevieWelch_50 (ED2), Tandem_42 (ED1), Welcome_51 (ED2), Wolfstar_45 (ED), Yuma_49 (ED2),

Start 2:

- Found in 1 of 26 (3.8%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: CN1A_47 (singleton),

Summary by clusters:

There are 4 clusters represented in this pham: ED2, ED, singleton, ED1,

Info for manual annotations of cluster ED1:

- Start number 1 was manually annotated 13 times for cluster ED1.

Info for manual annotations of cluster ED2:

- Start number 1 was manually annotated 9 times for cluster ED2.

Gene Information:

Gene: ASegato_49 Start: 23275, Stop: 23760, Start Num: 1

Candidate Starts for ASegato_49:

(Start: 1 @23275 has 22 MA's), (6, 23344), (8, 23365), (18, 23530), (29, 23749),

Gene: Alleb_43 Start: 22351, Stop: 22809, Start Num: 1

Candidate Starts for Alleb_43:

(Start: 1 @22351 has 22 MA's), (4, 22396), (6, 22426), (9, 22492), (11, 22504), (16, 22591), (18, 22597), (22, 22642), (24, 22726), (26, 22759),

Gene: CN1A_47 Start: 34081, Stop: 33614, Start Num: 2

Candidate Starts for CN1A_47:

(2, 34081), (3, 34060), (5, 34045), (7, 34021), (13, 33934), (14, 33892), (15, 33856), (19, 33841), (21, 33808), (25, 33685), (27, 33679),

Gene: DejaVu_46 Start: 22527, Stop: 22988, Start Num: 1

Candidate Starts for DejaVu_46:

(Start: 1 @22527 has 22 MA's), (6, 22599), (16, 22767), (18, 22773), (20, 22806), (23, 22863), (26, 22935),

Gene: DustyDino_53 Start: 24219, Stop: 24686, Start Num: 1
Candidate Starts for DustyDino_53:
(Start: 1 @24219 has 22 MA's), (6, 24288), (8, 24309), (18, 24474),

Gene: Erenyeager_50 Start: 23613, Stop: 24080, Start Num: 1
Candidate Starts for Erenyeager_50:
(Start: 1 @23613 has 22 MA's), (6, 23682), (8, 23703), (18, 23868),

Gene: Fork_46 Start: 22928, Stop: 23395, Start Num: 1
Candidate Starts for Fork_46:
(Start: 1 @22928 has 22 MA's), (6, 22997), (8, 23018), (18, 23183),

Gene: Hortus1_42 Start: 22341, Stop: 22799, Start Num: 1
Candidate Starts for Hortus1_42:
(Start: 1 @22341 has 22 MA's), (4, 22386), (6, 22416), (9, 22482), (11, 22494), (16, 22581), (18, 22587), (22, 22632), (24, 22716), (26, 22749),

Gene: Hubbs_45 Start: 22739, Stop: 23200, Start Num: 1
Candidate Starts for Hubbs_45:
(Start: 1 @22739 has 22 MA's), (6, 22811), (16, 22979), (18, 22985), (20, 23018), (23, 23075), (26, 23147),

Gene: Jacko_44 Start: 20533, Stop: 20991, Start Num: 1
Candidate Starts for Jacko_44:
(Start: 1 @20533 has 22 MA's), (6, 20605), (10, 20674), (12, 20689), (15, 20767), (16, 20773), (17, 20776), (18, 20779), (20, 20812), (24, 20908), (28, 20968),

Gene: Lupine_43 Start: 21940, Stop: 22401, Start Num: 1
Candidate Starts for Lupine_43:
(Start: 1 @21940 has 22 MA's), (6, 22012), (16, 22180), (18, 22186), (20, 22219), (23, 22276), (26, 22348),

Gene: Lyell_50 Start: 23532, Stop: 23999, Start Num: 1
Candidate Starts for Lyell_50:
(Start: 1 @23532 has 22 MA's), (6, 23601), (8, 23622), (18, 23787),

Gene: Musetta_50 Start: 23646, Stop: 24113, Start Num: 1
Candidate Starts for Musetta_50:
(Start: 1 @23646 has 22 MA's), (6, 23715), (8, 23736), (18, 23901),

Gene: Necrophoxinus_52 Start: 24227, Stop: 24694, Start Num: 1
Candidate Starts for Necrophoxinus_52:
(Start: 1 @24227 has 22 MA's), (8, 24317), (11, 24386), (18, 24482),

Gene: OlinDD_42 Start: 22340, Stop: 22798, Start Num: 1
Candidate Starts for OlinDD_42:
(Start: 1 @22340 has 22 MA's), (4, 22385), (6, 22415), (9, 22481), (11, 22493), (16, 22580), (18, 22586), (22, 22631), (24, 22715), (26, 22748),

Gene: Pavlo_43 Start: 22218, Stop: 22679, Start Num: 1
Candidate Starts for Pavlo_43:
(Start: 1 @22218 has 22 MA's), (6, 22290), (16, 22458), (18, 22464), (20, 22497), (23, 22554), (26, 22626),

Gene: PhillyPhilly_44 Start: 22120, Stop: 22581, Start Num: 1

Candidate Starts for PhillyPhilly_44:

(Start: 1 @22120 has 22 MA's), (6, 22192), (16, 22360), (18, 22366), (20, 22399), (23, 22456), (26, 22528),

Gene: Pioneer3_42 Start: 22348, Stop: 22806, Start Num: 1

Candidate Starts for Pioneer3_42:

(Start: 1 @22348 has 22 MA's), (4, 22393), (6, 22423), (9, 22489), (11, 22501), (16, 22588), (18, 22594), (22, 22639), (24, 22723), (26, 22756),

Gene: Platte_42 Start: 22133, Stop: 22591, Start Num: 1

Candidate Starts for Platte_42:

(Start: 1 @22133 has 22 MA's), (4, 22178), (6, 22208), (9, 22274), (11, 22286), (16, 22373), (18, 22379), (22, 22424), (24, 22508), (26, 22541),

Gene: Roman_45 Start: 22586, Stop: 23047, Start Num: 1

Candidate Starts for Roman_45:

(Start: 1 @22586 has 22 MA's), (6, 22658), (16, 22826), (18, 22832), (20, 22865), (23, 22922), (26, 22994),

Gene: RunningBrook_52 Start: 24219, Stop: 24686, Start Num: 1

Candidate Starts for RunningBrook_52:

(Start: 1 @24219 has 22 MA's), (6, 24288), (8, 24309), (18, 24474),

Gene: StevieWelch_50 Start: 23614, Stop: 24081, Start Num: 1

Candidate Starts for StevieWelch_50:

(Start: 1 @23614 has 22 MA's), (6, 23683), (8, 23704), (18, 23869),

Gene: Tandem_42 Start: 22287, Stop: 22745, Start Num: 1

Candidate Starts for Tandem_42:

(Start: 1 @22287 has 22 MA's), (4, 22332), (6, 22362), (9, 22428), (11, 22440), (16, 22527), (18, 22533), (22, 22578), (24, 22662), (26, 22695),

Gene: Welcome_51 Start: 23631, Stop: 24098, Start Num: 1

Candidate Starts for Welcome_51:

(Start: 1 @23631 has 22 MA's), (6, 23700), (8, 23721), (18, 23886),

Gene: Wolfstar_45 Start: 22121, Stop: 22591, Start Num: 1

Candidate Starts for Wolfstar_45:

(Start: 1 @22121 has 22 MA's), (6, 22193), (10, 22265), (11, 22277), (14, 22322), (18, 22370), (20, 22403), (24, 22499), (26, 22532),

Gene: Yuma_49 Start: 23546, Stop: 24013, Start Num: 1

Candidate Starts for Yuma_49:

(Start: 1 @23546 has 22 MA's), (6, 23615), (8, 23636), (18, 23801),