



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 220014 Report

This analysis was run 03/28/25 on database version 593.

Pham number 220014 has 27 members, 6 are drafts.

Phages represented in each track:

- Track 1 : Bernardo_66
- Track 2 : Holt_46, Becksu_44, MISSy_43, StormChicken_45, Terminus_45, MPhalcon_43, Quallification_44, Phaux_45, Buck_44, Murica_45, Kostya_44, Rimmer_44, Nala_44, xkcd_47, HufflyPuff_45, Petra64142_48, PhatBacter_46, Palpatine_46, Policronamos_46, FireRed_46, FairyPath_43, Misfit_45, Youngblood_45, BugsBunny_44, Nimrod_46
- Track 3 : Bhagsy_58

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

The start number called the most often in the published annotations is 10, it was called in 20 of the 21 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Becksu_44, Buck_44, BugsBunny_44, FairyPath_43, FireRed_46, Holt_46, HufflyPuff_45, Kostya_44, MISSy_43, MPhalcon_43, Misfit_45, Murica_45, Nala_44, Nimrod_46, Palpatine_46, Petra64142_48, PhatBacter_46, Phaux_45, Policronamos_46, Quallification_44, Rimmer_44, StormChicken_45, Terminus_45, Youngblood_45, xkcd_47,

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:

- Bernardo_66, Bhagsy_58,

Summary by start number:

Start 9:

- Found in 1 of 27 (3.7%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bhagsy_58 (P1),

Start 10:

- Found in 25 of 27 (92.6%) of genes in pham
- Manual Annotations of this start: 20 of 21
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Becksu_44 (E), Buck_44 (E), BugsBunny_44 (E), FairyPath_43 (E), FireRed_46 (E), Holt_46 (E), HufflyPuff_45 (E), Kostya_44 (E), MISSy_43 (E), MPhalcon_43 (E), Misfit_45 (E), Murica_45 (E), Nala_44 (E), Nimrod_46 (E), Palpatine_46 (E), Petra64142_48 (E), PhatBacter_46 (E), Phaux_45 (E), Policronamos_46 (E), Quallification_44 (E), Rimmer_44 (E), StormChicken_45 (E), Terminus_45 (E), Youngblood_45 (E), xkcd_47 (E),

Start 16:

- Found in 26 of 27 (96.3%) of genes in pham
- Manual Annotations of this start: 1 of 21
- Called 3.8% of time when present
- Phage (with cluster) where this start called: Bernardo_66 (B3),

Summary by clusters:

There are 3 clusters represented in this pham: P1, E, B3,

Info for manual annotations of cluster B3:

- Start number 16 was manually annotated 1 time for cluster B3.

Info for manual annotations of cluster E:

- Start number 10 was manually annotated 20 times for cluster E.

Gene Information:

Gene: Becksu_44 Start: 35976, Stop: 35701, Start Num: 10

Candidate Starts for Becksu_44:

(Start: 10 @35976 has 20 MA's), (Start: 16 @35904 has 1 MA's), (17, 35892),

Gene: Bernardo_66 Start: 55939, Stop: 55739, Start Num: 16

Candidate Starts for Bernardo_66:

(5, 56266), (8, 56077), (11, 56014), (12, 56011), (Start: 16 @55939 has 1 MA's), (19, 55816), (20, 55765), (21, 55759),

Gene: Bhagsy_58 Start: 38100, Stop: 38384, Start Num: 9

Candidate Starts for Bhagsy_58:

(1, 37764), (2, 37797), (3, 37821), (4, 37827), (6, 37968), (7, 38025), (9, 38100), (13, 38115), (14, 38142), (15, 38148), (17, 38193), (18, 38205), (20, 38361),

Gene: Buck_44 Start: 36027, Stop: 35752, Start Num: 10

Candidate Starts for Buck_44:

(Start: 10 @36027 has 20 MA's), (Start: 16 @35955 has 1 MA's), (17, 35943),

Gene: BugsBunny_44 Start: 35858, Stop: 35583, Start Num: 10

Candidate Starts for BugsBunny_44:

(Start: 10 @35858 has 20 MA's), (Start: 16 @35786 has 1 MA's), (17, 35774),

Gene: FairyPath_43 Start: 35922, Stop: 35647, Start Num: 10
Candidate Starts for FairyPath_43:
(Start: 10 @35922 has 20 MA's), (Start: 16 @35850 has 1 MA's), (17, 35838),

Gene: FireRed_46 Start: 36297, Stop: 36022, Start Num: 10
Candidate Starts for FireRed_46:
(Start: 10 @36297 has 20 MA's), (Start: 16 @36225 has 1 MA's), (17, 36213),

Gene: Holt_46 Start: 35597, Stop: 35322, Start Num: 10
Candidate Starts for Holt_46:
(Start: 10 @35597 has 20 MA's), (Start: 16 @35525 has 1 MA's), (17, 35513),

Gene: HufflyPuff_45 Start: 36253, Stop: 35978, Start Num: 10
Candidate Starts for HufflyPuff_45:
(Start: 10 @36253 has 20 MA's), (Start: 16 @36181 has 1 MA's), (17, 36169),

Gene: Kostya_44 Start: 35744, Stop: 35469, Start Num: 10
Candidate Starts for Kostya_44:
(Start: 10 @35744 has 20 MA's), (Start: 16 @35672 has 1 MA's), (17, 35660),

Gene: MISSy_43 Start: 35306, Stop: 35031, Start Num: 10
Candidate Starts for MISSy_43:
(Start: 10 @35306 has 20 MA's), (Start: 16 @35234 has 1 MA's), (17, 35222),

Gene: MPhalcon_43 Start: 35299, Stop: 35024, Start Num: 10
Candidate Starts for MPhalcon_43:
(Start: 10 @35299 has 20 MA's), (Start: 16 @35227 has 1 MA's), (17, 35215),

Gene: Misfit_45 Start: 36318, Stop: 36043, Start Num: 10
Candidate Starts for Misfit_45:
(Start: 10 @36318 has 20 MA's), (Start: 16 @36246 has 1 MA's), (17, 36234),

Gene: Murica_45 Start: 36253, Stop: 35978, Start Num: 10
Candidate Starts for Murica_45:
(Start: 10 @36253 has 20 MA's), (Start: 16 @36181 has 1 MA's), (17, 36169),

Gene: Nala_44 Start: 35811, Stop: 35536, Start Num: 10
Candidate Starts for Nala_44:
(Start: 10 @35811 has 20 MA's), (Start: 16 @35739 has 1 MA's), (17, 35727),

Gene: Nimrod_46 Start: 36511, Stop: 36236, Start Num: 10
Candidate Starts for Nimrod_46:
(Start: 10 @36511 has 20 MA's), (Start: 16 @36439 has 1 MA's), (17, 36427),

Gene: Palpatine_46 Start: 36283, Stop: 36008, Start Num: 10
Candidate Starts for Palpatine_46:
(Start: 10 @36283 has 20 MA's), (Start: 16 @36211 has 1 MA's), (17, 36199),

Gene: Petra64142_48 Start: 36747, Stop: 36472, Start Num: 10
Candidate Starts for Petra64142_48:
(Start: 10 @36747 has 20 MA's), (Start: 16 @36675 has 1 MA's), (17, 36663),

Gene: PhatBacter_46 Start: 36297, Stop: 36022, Start Num: 10
Candidate Starts for PhatBacter_46:
(Start: 10 @36297 has 20 MA's), (Start: 16 @36225 has 1 MA's), (17, 36213),

Gene: Phaux_45 Start: 36295, Stop: 36020, Start Num: 10
Candidate Starts for Phaux_45:
(Start: 10 @36295 has 20 MA's), (Start: 16 @36223 has 1 MA's), (17, 36211),

Gene: Policronamos_46 Start: 36295, Stop: 36020, Start Num: 10
Candidate Starts for Policronamos_46:
(Start: 10 @36295 has 20 MA's), (Start: 16 @36223 has 1 MA's), (17, 36211),

Gene: Quallification_44 Start: 35933, Stop: 35658, Start Num: 10
Candidate Starts for Quallification_44:
(Start: 10 @35933 has 20 MA's), (Start: 16 @35861 has 1 MA's), (17, 35849),

Gene: Rimmer_44 Start: 35637, Stop: 35362, Start Num: 10
Candidate Starts for Rimmer_44:
(Start: 10 @35637 has 20 MA's), (Start: 16 @35565 has 1 MA's), (17, 35553),

Gene: StormChicken_45 Start: 36245, Stop: 35970, Start Num: 10
Candidate Starts for StormChicken_45:
(Start: 10 @36245 has 20 MA's), (Start: 16 @36173 has 1 MA's), (17, 36161),

Gene: Terminus_45 Start: 36318, Stop: 36043, Start Num: 10
Candidate Starts for Terminus_45:
(Start: 10 @36318 has 20 MA's), (Start: 16 @36246 has 1 MA's), (17, 36234),

Gene: Youngblood_45 Start: 36248, Stop: 35973, Start Num: 10
Candidate Starts for Youngblood_45:
(Start: 10 @36248 has 20 MA's), (Start: 16 @36176 has 1 MA's), (17, 36164),

Gene: xkcd_47 Start: 36438, Stop: 36163, Start Num: 10
Candidate Starts for xkcd_47:
(Start: 10 @36438 has 20 MA's), (Start: 16 @36366 has 1 MA's), (17, 36354),