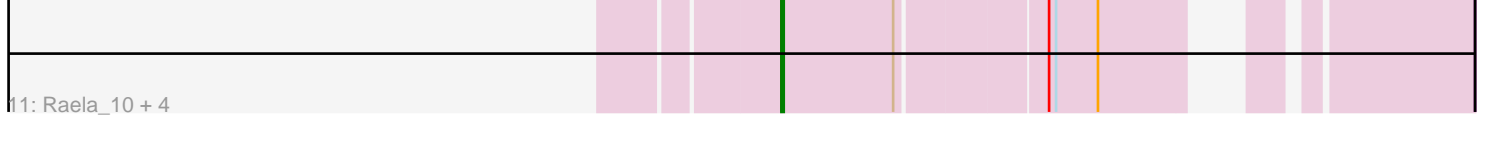
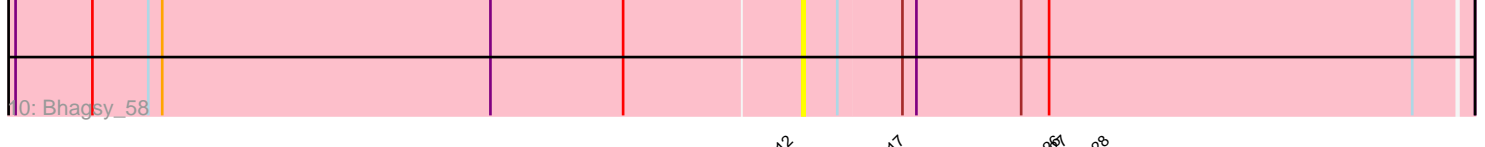
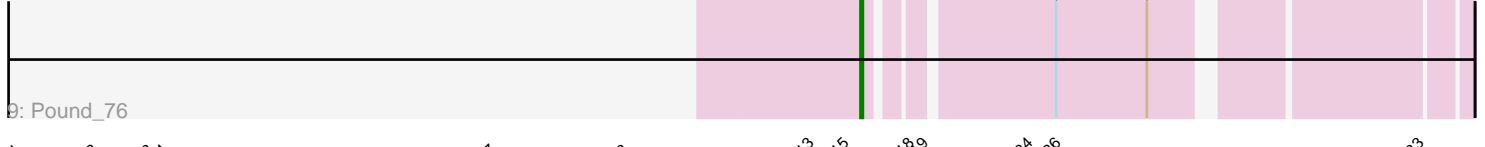
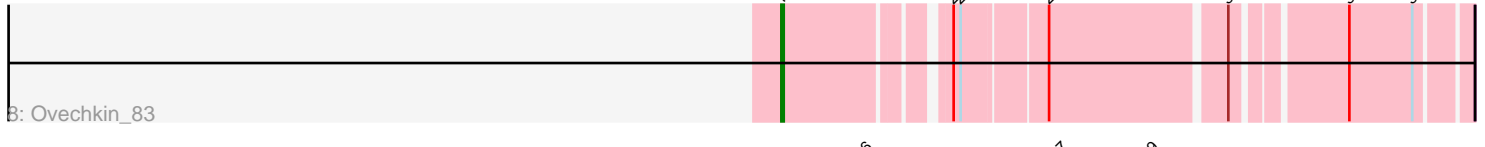
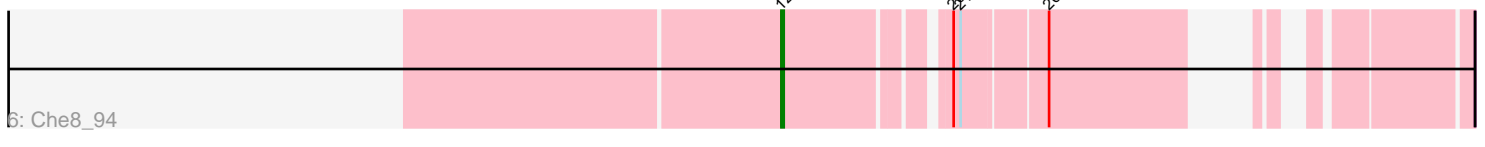
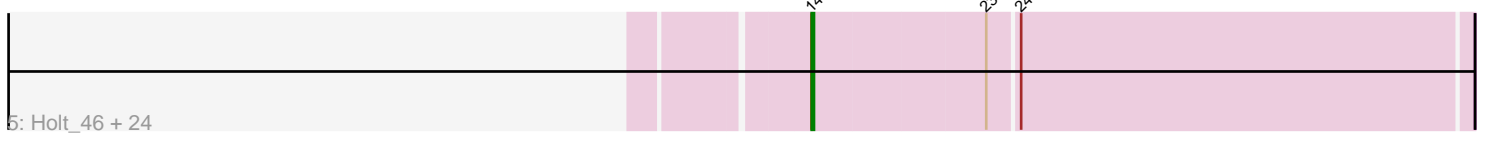
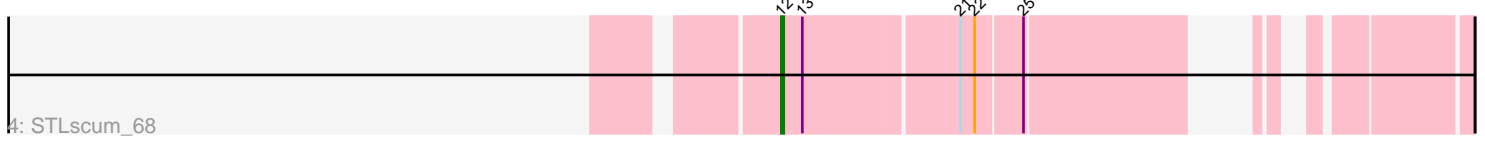
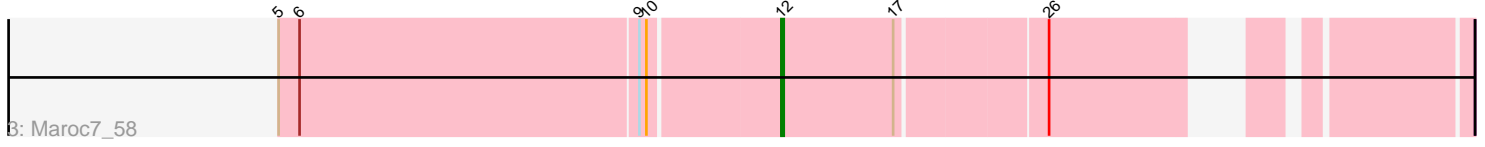
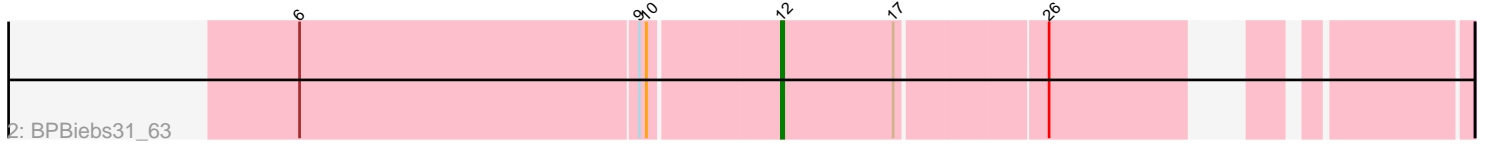
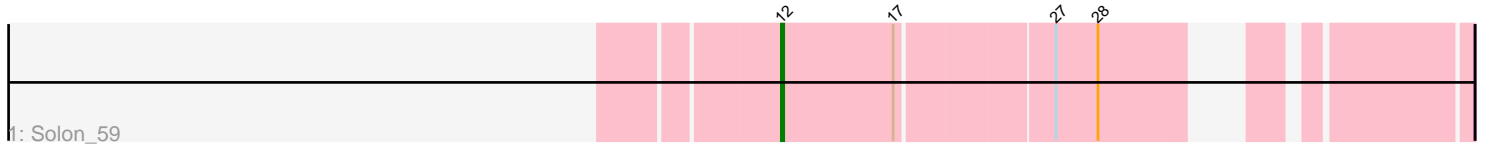


Pham 216342



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 216342 Report

This analysis was run 02/22/25 on database version 588.

Pham number 216342 has 39 members, 6 are drafts.

Phages represented in each track:

- Track 1 : Solon_59
- Track 2 : BPBiebs31_63
- Track 3 : Maroc7_58
- Track 4 : STLscum_68
- Track 5 : Holt_46, Becksu_44, MISSy_43, Palpatine_46, Terminus_45, MPhalcon_43, Quallification_44, Phaux_45, Buck_44, Murica_45, Policronamos_46, Kostya_44, Rimmer_44, Nala_44, xkcd_47, HufflyPuff_45, Petra64142_48, StormChicken_45, PhatBacter_46, FireRed_46, FairyPath_43, Misfit_45, Youngblood_45, BugsBunny_44, Nimrod_46
- Track 6 : Che8_94
- Track 7 : Frankie_90
- Track 8 : Ovechkin_83
- Track 9 : Pound_76
- Track 10 : Bhagsy_58
- Track 11 : Raela_10, Tesla_10, Poise_10, Blackbeetle_10, SG4_82

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

The start number called the most often in the published annotations is 14, it was called in 20 of the 33 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:

-

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

- BPBiebs31_63, Bhagsy_58, Blackbeetle_10, Che8_94, Frankie_90, Maroc7_58, Ovechkin_83, Poise_10, Pound_76, Raela_10, SG4_82, STLscum_68, Solon_59,

Tesla_10,

Summary by start number:

Start 12:

- Found in 12 of 39 (30.8%) of genes in pham
- Manual Annotations of this start: 12 of 33
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BPBiebs31_63 (A1), Blackbeetle_10 (S), Che8_94 (F1), Frankie_90 (F1), Maroc7_58 (A1), Ovechkin_83 (F1), Poise_10 (S), Raela_10 (S), SG4_82 (F1), STLscum_68 (A1), Solon_59 (A1), Tesla_10 (S),

Start 13:

- Found in 2 of 39 (5.1%) of genes in pham
- No Manual Annotations of this start.
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Bhagsy_58 (P1),

Start 14:

- Found in 25 of 39 (64.1%) of genes in pham
- Manual Annotations of this start: 20 of 33
- 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 1 of 39 (2.6%) of genes in pham
- Manual Annotations of this start: 1 of 33
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Pound_76 (J),

Summary by clusters:

There are 6 clusters represented in this pham: F1, P1, E, J, A1, S,

Info for manual annotations of cluster A1:

- Start number 12 was manually annotated 4 times for cluster A1.

Info for manual annotations of cluster E:

- Start number 14 was manually annotated 20 times for cluster E.

Info for manual annotations of cluster F1:

- Start number 12 was manually annotated 4 times for cluster F1.

Info for manual annotations of cluster J:

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

Info for manual annotations of cluster S:

- Start number 12 was manually annotated 4 times for cluster S.

Gene Information:

Gene: BPBiabs31_63 Start: 41560, Stop: 41312, Start Num: 12

Candidate Starts for BPBiabs31_63:

(6, 41761), (9, 41617), (10, 41614), (Start: 12 @41560 has 12 MA's), (17, 41512), (26, 41452),

Gene: Becksu_44 Start: 35976, Stop: 35701, Start Num: 14

Candidate Starts for Becksu_44:

(Start: 14 @35976 has 20 MA's), (23, 35904), (24, 35892),

Gene: Bhagsy_58 Start: 38100, Stop: 38384, Start Num: 13

Candidate Starts for Bhagsy_58:

(1, 37764), (2, 37797), (3, 37821), (4, 37827), (7, 37968), (8, 38025), (13, 38100), (15, 38115), (18, 38142), (19, 38148), (24, 38193), (26, 38205), (33, 38361),

Gene: Blackbeetle_10 Start: 3064, Stop: 3315, Start Num: 12

Candidate Starts for Blackbeetle_10:

(Start: 12 @3064 has 12 MA's), (17, 3112), (26, 3172), (27, 3175), (28, 3193),

Gene: Buck_44 Start: 36027, Stop: 35752, Start Num: 14

Candidate Starts for Buck_44:

(Start: 14 @36027 has 20 MA's), (23, 35955), (24, 35943),

Gene: BugsBunny_44 Start: 35858, Stop: 35583, Start Num: 14

Candidate Starts for BugsBunny_44:

(Start: 14 @35858 has 20 MA's), (23, 35786), (24, 35774),

Gene: Che8_94 Start: 51968, Stop: 52192, Start Num: 12

Candidate Starts for Che8_94:

(Start: 12 @51968 has 12 MA's), (20, 52028), (21, 52031), (26, 52064),

Gene: FairyPath_43 Start: 35922, Stop: 35647, Start Num: 14

Candidate Starts for FairyPath_43:

(Start: 14 @35922 has 20 MA's), (23, 35850), (24, 35838),

Gene: FireRed_46 Start: 36297, Stop: 36022, Start Num: 14

Candidate Starts for FireRed_46:

(Start: 14 @36297 has 20 MA's), (23, 36225), (24, 36213),

Gene: Frankie_90 Start: 50801, Stop: 51076, Start Num: 12

Candidate Starts for Frankie_90:

(11, 50762), (Start: 12 @50801 has 12 MA's), (20, 50861), (21, 50864), (26, 50897), (31, 51023),

Gene: Holt_46 Start: 35597, Stop: 35322, Start Num: 14

Candidate Starts for Holt_46:

(Start: 14 @35597 has 20 MA's), (23, 35525), (24, 35513),

Gene: HufflyPuff_45 Start: 36253, Stop: 35978, Start Num: 14

Candidate Starts for HufflyPuff_45:

(Start: 14 @36253 has 20 MA's), (23, 36181), (24, 36169),

Gene: Kostya_44 Start: 35744, Stop: 35469, Start Num: 14

Candidate Starts for Kostya_44:

(Start: 14 @35744 has 20 MA's), (23, 35672), (24, 35660),

Gene: MISSy_43 Start: 35306, Stop: 35031, Start Num: 14

Candidate Starts for MISSy_43:

(Start: 14 @35306 has 20 MA's), (23, 35234), (24, 35222),

Gene: MPhalcon_43 Start: 35299, Stop: 35024, Start Num: 14

Candidate Starts for MPhalcon_43:

(Start: 14 @35299 has 20 MA's), (23, 35227), (24, 35215),

Gene: Maroc7_58 Start: 41045, Stop: 40797, Start Num: 12

Candidate Starts for Maroc7_58:

(5, 41255), (6, 41246), (9, 41102), (10, 41099), (Start: 12 @41045 has 12 MA's), (17, 40997), (26, 40937),

Gene: Misfit_45 Start: 36318, Stop: 36043, Start Num: 14

Candidate Starts for Misfit_45:

(Start: 14 @36318 has 20 MA's), (23, 36246), (24, 36234),

Gene: Murica_45 Start: 36253, Stop: 35978, Start Num: 14

Candidate Starts for Murica_45:

(Start: 14 @36253 has 20 MA's), (23, 36181), (24, 36169),

Gene: Nala_44 Start: 35811, Stop: 35536, Start Num: 14

Candidate Starts for Nala_44:

(Start: 14 @35811 has 20 MA's), (23, 35739), (24, 35727),

Gene: Nimrod_46 Start: 36511, Stop: 36236, Start Num: 14

Candidate Starts for Nimrod_46:

(Start: 14 @36511 has 20 MA's), (23, 36439), (24, 36427),

Gene: Ovechkin_83 Start: 49406, Stop: 49663, Start Num: 12

Candidate Starts for Ovechkin_83:

(Start: 12 @49406 has 12 MA's), (20, 49466), (21, 49469), (26, 49502), (30, 49574), (32, 49616), (33, 49643),

Gene: Palpatine_46 Start: 36283, Stop: 36008, Start Num: 14

Candidate Starts for Palpatine_46:

(Start: 14 @36283 has 20 MA's), (23, 36211), (24, 36199),

Gene: Petra64142_48 Start: 36747, Stop: 36472, Start Num: 14

Candidate Starts for Petra64142_48:

(Start: 14 @36747 has 20 MA's), (23, 36675), (24, 36663),

Gene: PhatBacter_46 Start: 36297, Stop: 36022, Start Num: 14

Candidate Starts for PhatBacter_46:

(Start: 14 @36297 has 20 MA's), (23, 36225), (24, 36213),

Gene: Phaux_45 Start: 36295, Stop: 36020, Start Num: 14

Candidate Starts for Phaux_45:
(Start: 14 @36295 has 20 MA's), (23, 36223), (24, 36211),

Gene: Poise_10 Start: 3064, Stop: 3315, Start Num: 12
Candidate Starts for Poise_10:
(Start: 12 @3064 has 12 MA's), (17, 3112), (26, 3172), (27, 3175), (28, 3193),

Gene: Policronamos_46 Start: 36295, Stop: 36020, Start Num: 14
Candidate Starts for Policronamos_46:
(Start: 14 @36295 has 20 MA's), (23, 36223), (24, 36211),

Gene: Pound_76 Start: 53125, Stop: 52898, Start Num: 16
Candidate Starts for Pound_76:
(Start: 16 @53125 has 1 MA's), (27, 53056), (29, 53017),

Gene: Quallification_44 Start: 35933, Stop: 35658, Start Num: 14
Candidate Starts for Quallification_44:
(Start: 14 @35933 has 20 MA's), (23, 35861), (24, 35849),

Gene: Raela_10 Start: 3468, Stop: 3719, Start Num: 12
Candidate Starts for Raela_10:
(Start: 12 @3468 has 12 MA's), (17, 3516), (26, 3576), (27, 3579), (28, 3597),

Gene: Rimmer_44 Start: 35637, Stop: 35362, Start Num: 14
Candidate Starts for Rimmer_44:
(Start: 14 @35637 has 20 MA's), (23, 35565), (24, 35553),

Gene: SG4_82 Start: 49730, Stop: 49978, Start Num: 12
Candidate Starts for SG4_82:
(Start: 12 @49730 has 12 MA's), (17, 49778), (26, 49838), (27, 49841), (28, 49859),

Gene: STLscum_68 Start: 42547, Stop: 42314, Start Num: 12
Candidate Starts for STLscum_68:
(Start: 12 @42547 has 12 MA's), (13, 42538), (21, 42475), (22, 42469), (25, 42451),

Gene: Solon_59 Start: 40107, Stop: 39859, Start Num: 12
Candidate Starts for Solon_59:
(Start: 12 @40107 has 12 MA's), (17, 40059), (27, 39996), (28, 39978),

Gene: StormChicken_45 Start: 36245, Stop: 35970, Start Num: 14
Candidate Starts for StormChicken_45:
(Start: 14 @36245 has 20 MA's), (23, 36173), (24, 36161),

Gene: Terminus_45 Start: 36318, Stop: 36043, Start Num: 14
Candidate Starts for Terminus_45:
(Start: 14 @36318 has 20 MA's), (23, 36246), (24, 36234),

Gene: Tesla_10 Start: 3055, Stop: 3306, Start Num: 12
Candidate Starts for Tesla_10:
(Start: 12 @3055 has 12 MA's), (17, 3103), (26, 3163), (27, 3166), (28, 3184),

Gene: Youngblood_45 Start: 36248, Stop: 35973, Start Num: 14
Candidate Starts for Youngblood_45:

(Start: 14 @36248 has 20 MA's), (23, 36176), (24, 36164),

Gene: xkcd_47 Start: 36438, Stop: 36163, Start Num: 14

Candidate Starts for xkcd_47:

(Start: 14 @36438 has 20 MA's), (23, 36366), (24, 36354),