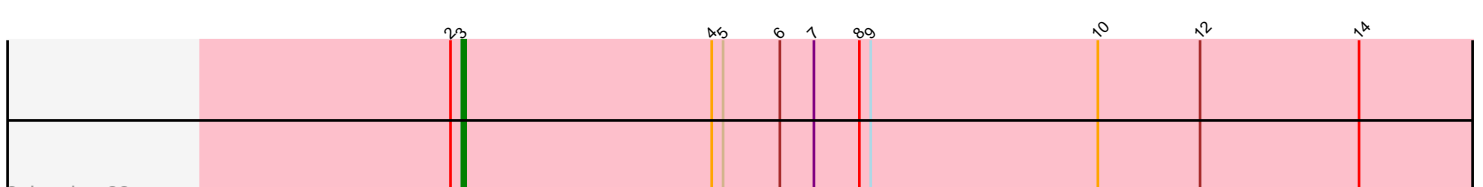
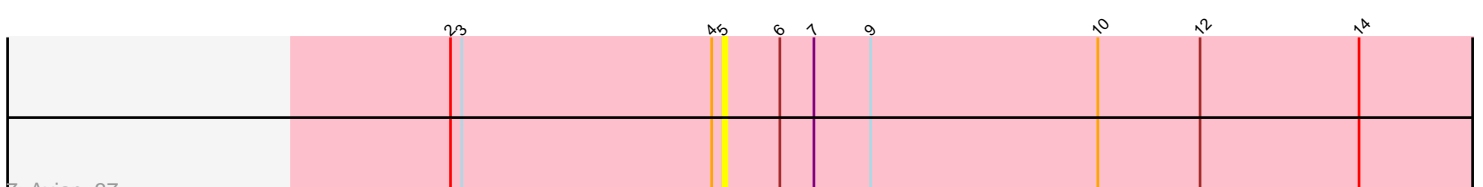
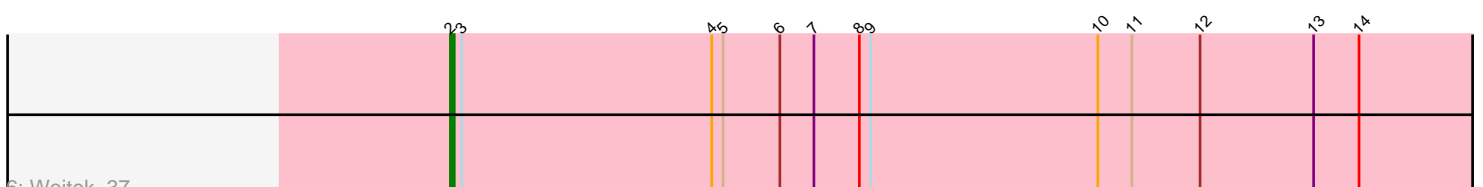
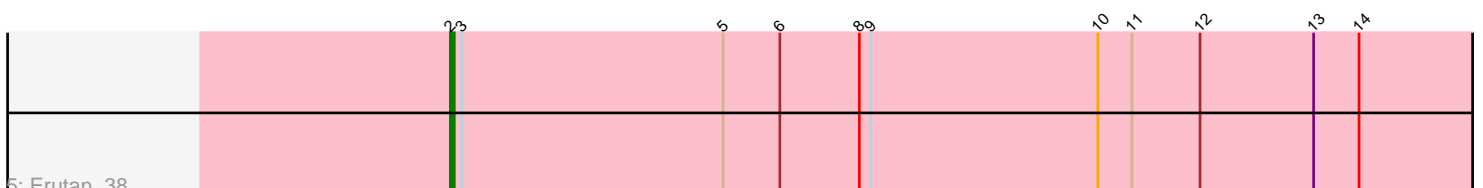
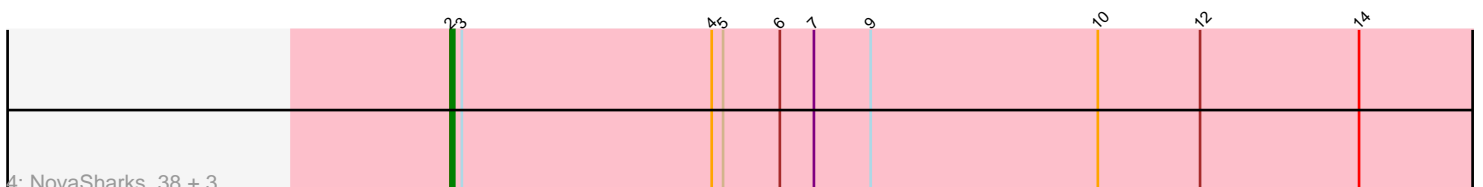
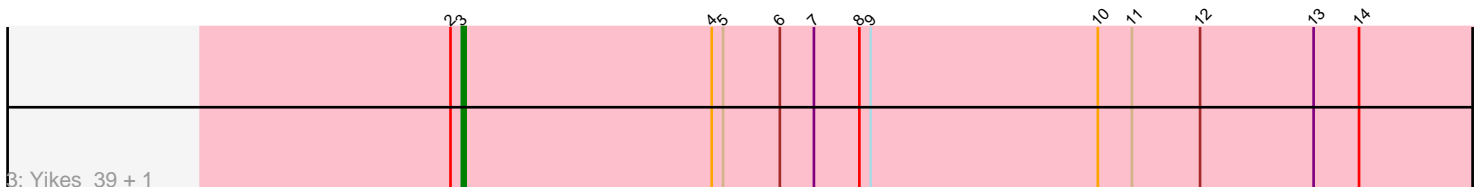
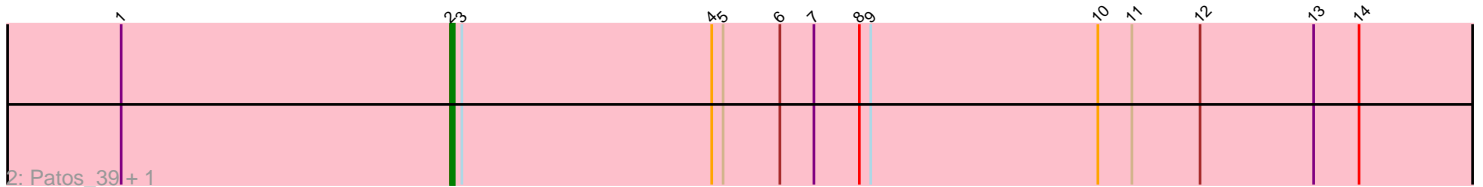
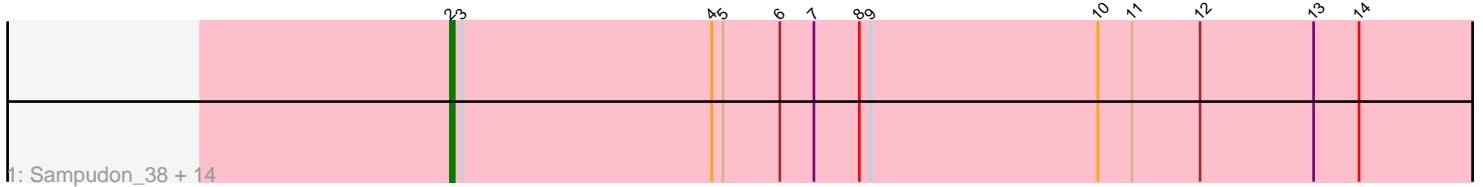


Pham 163866



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 163866 Report

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

Pham number 163866 has 27 members, 5 are drafts.

Phages represented in each track:

- Track 1 : Sampudon_38, ParvusTarda_38, OtterstedtS21_38, Jalebi_37, MoiGyank_42, DoobyDoo_37, GOATification_39, Fulcrum_39, Zany_37, Gibbin_39, BirthdayBoy_39, GretellLyn_38, Lila22_39, Penjamin420_40, Sadboi_39
- Track 2 : Patos_39, NorManre_39
- Track 3 : Yikes_39, Ranch_38
- Track 4 : NovaSharks_38, Rumi_38, Genamy16_39, Alyssamiracle_39
- Track 5 : Erutan_38
- Track 6 : Wojtek_37
- Track 7 : Avian_37
- Track 8 : Lambo_38

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

The start number called the most often in the published annotations is 2, it was called in 19 of the 22 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Alyssamiracle_39, BirthdayBoy_39, DoobyDoo_37, Erutan_38, Fulcrum_39, GOATification_39, Genamy16_39, Gibbin_39, GretellLyn_38, Jalebi_37, Lila22_39, MoiGyank_42, NorManre_39, NovaSharks_38, OtterstedtS21_38, ParvusTarda_38, Patos_39, Penjamin420_40, Rumi_38, Sadboi_39, Sampudon_38, Wojtek_37, Zany_37,

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

- Avian_37, Lambo_38, Ranch_38, Yikes_39,

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

-

Summary by start number:

Start 2:

- Found in 27 of 27 (100.0%) of genes in pham
- Manual Annotations of this start: 19 of 22

- Called 85.2% of time when present
- Phage (with cluster) where this start called: Alyssamiracle_39 (DV), BirthdayBoy_39 (DV), DoobyDoo_37 (DV), Erutan_38 (DV), Fulcrum_39 (DV), GOATification_39 (DV), Genamy16_39 (DV), Gibbin_39 (DV), GretelLyn_38 (DV), Jalebi_37 (DV), Lila22_39 (DV), MoiGyank_42 (DV), NorManre_39 (DV), NovaSharks_38 (DV), OtterstedtS21_38 (DV), ParvusTarda_38 (DV), Patos_39 (DV), Penjamin420_40 (DV), Rumi_38 (DV), Sadboi_39 (DV), Sampudon_38 (DV), Wojtek_37 (DV), Zany_37 (DV),

Start 3:

- Found in 27 of 27 (100.0%) of genes in pham
- Manual Annotations of this start: 3 of 22
- Called 11.1% of time when present
- Phage (with cluster) where this start called: Lambo_38 (DV), Ranch_38 (DV), Yikes_39 (DV),

Start 5:

- Found in 27 of 27 (100.0%) of genes in pham
- No Manual Annotations of this start.
- Called 3.7% of time when present
- Phage (with cluster) where this start called: Avian_37 (DV),

Summary by clusters:

There is one cluster represented in this pham: DV

Info for manual annotations of cluster DV:

- Start number 2 was manually annotated 19 times for cluster DV.
- Start number 3 was manually annotated 3 times for cluster DV.

Gene Information:

Gene: Alyssamiracle_39 Start: 30903, Stop: 31175, Start Num: 2

Candidate Starts for Alyssamiracle_39:

(Start: 2 @30903 has 19 MA's), (Start: 3 @30906 has 3 MA's), (4, 30972), (5, 30975), (6, 30990), (7, 30999), (9, 31014), (10, 31074), (12, 31101), (14, 31143),

Gene: Avian_37 Start: 30957, Stop: 31157, Start Num: 5

Candidate Starts for Avian_37:

(Start: 2 @30885 has 19 MA's), (Start: 3 @30888 has 3 MA's), (4, 30954), (5, 30957), (6, 30972), (7, 30981), (9, 30996), (10, 31056), (12, 31083), (14, 31125),

Gene: BirthdayBoy_39 Start: 32632, Stop: 32904, Start Num: 2

Candidate Starts for BirthdayBoy_39:

(Start: 2 @32632 has 19 MA's), (Start: 3 @32635 has 3 MA's), (4, 32701), (5, 32704), (6, 32719), (7, 32728), (8, 32740), (9, 32743), (10, 32803), (11, 32812), (12, 32830), (13, 32860), (14, 32872),

Gene: DoobyDoo_37 Start: 31583, Stop: 31855, Start Num: 2

Candidate Starts for DoobyDoo_37:

(Start: 2 @31583 has 19 MA's), (Start: 3 @31586 has 3 MA's), (4, 31652), (5, 31655), (6, 31670), (7, 31679), (8, 31691), (9, 31694), (10, 31754), (11, 31763), (12, 31781), (13, 31811), (14, 31823),

Gene: Erutan_38 Start: 32091, Stop: 32363, Start Num: 2

Candidate Starts for Erutan_38:

(Start: 2 @32091 has 19 MA's), (Start: 3 @32094 has 3 MA's), (5, 32163), (6, 32178), (8, 32199), (9, 32202), (10, 32262), (11, 32271), (12, 32289), (13, 32319), (14, 32331),

Gene: Fulcrum_39 Start: 32612, Stop: 32884, Start Num: 2

Candidate Starts for Fulcrum_39:

(Start: 2 @32612 has 19 MA's), (Start: 3 @32615 has 3 MA's), (4, 32681), (5, 32684), (6, 32699), (7, 32708), (8, 32720), (9, 32723), (10, 32783), (11, 32792), (12, 32810), (13, 32840), (14, 32852),

Gene: GOATification_39 Start: 32612, Stop: 32884, Start Num: 2

Candidate Starts for GOATification_39:

(Start: 2 @32612 has 19 MA's), (Start: 3 @32615 has 3 MA's), (4, 32681), (5, 32684), (6, 32699), (7, 32708), (8, 32720), (9, 32723), (10, 32783), (11, 32792), (12, 32810), (13, 32840), (14, 32852),

Gene: Genamy16_39 Start: 30903, Stop: 31175, Start Num: 2

Candidate Starts for Genamy16_39:

(Start: 2 @30903 has 19 MA's), (Start: 3 @30906 has 3 MA's), (4, 30972), (5, 30975), (6, 30990), (7, 30999), (9, 31014), (10, 31074), (12, 31101), (14, 31143),

Gene: Gibbin_39 Start: 32710, Stop: 32982, Start Num: 2

Candidate Starts for Gibbin_39:

(Start: 2 @32710 has 19 MA's), (Start: 3 @32713 has 3 MA's), (4, 32779), (5, 32782), (6, 32797), (7, 32806), (8, 32818), (9, 32821), (10, 32881), (11, 32890), (12, 32908), (13, 32938), (14, 32950),

Gene: Gretellyn_38 Start: 32976, Stop: 33248, Start Num: 2

Candidate Starts for Gretellyn_38:

(Start: 2 @32976 has 19 MA's), (Start: 3 @32979 has 3 MA's), (4, 33045), (5, 33048), (6, 33063), (7, 33072), (8, 33084), (9, 33087), (10, 33147), (11, 33156), (12, 33174), (13, 33204), (14, 33216),

Gene: Jalebi_37 Start: 33145, Stop: 33417, Start Num: 2

Candidate Starts for Jalebi_37:

(Start: 2 @33145 has 19 MA's), (Start: 3 @33148 has 3 MA's), (4, 33214), (5, 33217), (6, 33232), (7, 33241), (8, 33253), (9, 33256), (10, 33316), (11, 33325), (12, 33343), (13, 33373), (14, 33385),

Gene: Lambo_38 Start: 32633, Stop: 32902, Start Num: 3

Candidate Starts for Lambo_38:

(Start: 2 @32630 has 19 MA's), (Start: 3 @32633 has 3 MA's), (4, 32699), (5, 32702), (6, 32717), (7, 32726), (8, 32738), (9, 32741), (10, 32801), (12, 32828), (14, 32870),

Gene: Lila22_39 Start: 32585, Stop: 32857, Start Num: 2

Candidate Starts for Lila22_39:

(Start: 2 @32585 has 19 MA's), (Start: 3 @32588 has 3 MA's), (4, 32654), (5, 32657), (6, 32672), (7, 32681), (8, 32693), (9, 32696), (10, 32756), (11, 32765), (12, 32783), (13, 32813), (14, 32825),

Gene: MoiGyank_42 Start: 33015, Stop: 33287, Start Num: 2

Candidate Starts for MoiGyank_42:

(Start: 2 @33015 has 19 MA's), (Start: 3 @33018 has 3 MA's), (4, 33084), (5, 33087), (6, 33102), (7, 33111), (8, 33123), (9, 33126), (10, 33186), (11, 33195), (12, 33213), (13, 33243), (14, 33255),

Gene: NorManre_39 Start: 32221, Stop: 32493, Start Num: 2

Candidate Starts for NorManre_39:

(1, 32134), (Start: 2 @32221 has 19 MA's), (Start: 3 @32224 has 3 MA's), (4, 32290), (5, 32293), (6, 32308), (7, 32317), (8, 32329), (9, 32332), (10, 32392), (11, 32401), (12, 32419), (13, 32449), (14, 32461),

Gene: NovaSharks_38 Start: 30493, Stop: 30765, Start Num: 2

Candidate Starts for NovaSharks_38:

(Start: 2 @30493 has 19 MA's), (Start: 3 @30496 has 3 MA's), (4, 30562), (5, 30565), (6, 30580), (7, 30589), (9, 30604), (10, 30664), (12, 30691), (14, 30733),

Gene: OtterstedtS21_38 Start: 32292, Stop: 32564, Start Num: 2

Candidate Starts for OtterstedtS21_38:

(Start: 2 @32292 has 19 MA's), (Start: 3 @32295 has 3 MA's), (4, 32361), (5, 32364), (6, 32379), (7, 32388), (8, 32400), (9, 32403), (10, 32463), (11, 32472), (12, 32490), (13, 32520), (14, 32532),

Gene: ParvusTarda_38 Start: 31760, Stop: 32032, Start Num: 2

Candidate Starts for ParvusTarda_38:

(Start: 2 @31760 has 19 MA's), (Start: 3 @31763 has 3 MA's), (4, 31829), (5, 31832), (6, 31847), (7, 31856), (8, 31868), (9, 31871), (10, 31931), (11, 31940), (12, 31958), (13, 31988), (14, 32000),

Gene: Patos_39 Start: 32221, Stop: 32493, Start Num: 2

Candidate Starts for Patos_39:

(1, 32134), (Start: 2 @32221 has 19 MA's), (Start: 3 @32224 has 3 MA's), (4, 32290), (5, 32293), (6, 32308), (7, 32317), (8, 32329), (9, 32332), (10, 32392), (11, 32401), (12, 32419), (13, 32449), (14, 32461),

Gene: Penjamin420_40 Start: 32436, Stop: 32708, Start Num: 2

Candidate Starts for Penjamin420_40:

(Start: 2 @32436 has 19 MA's), (Start: 3 @32439 has 3 MA's), (4, 32505), (5, 32508), (6, 32523), (7, 32532), (8, 32544), (9, 32547), (10, 32607), (11, 32616), (12, 32634), (13, 32664), (14, 32676),

Gene: Ranch_38 Start: 31121, Stop: 31390, Start Num: 3

Candidate Starts for Ranch_38:

(Start: 2 @31118 has 19 MA's), (Start: 3 @31121 has 3 MA's), (4, 31187), (5, 31190), (6, 31205), (7, 31214), (8, 31226), (9, 31229), (10, 31289), (11, 31298), (12, 31316), (13, 31346), (14, 31358),

Gene: Rumi_38 Start: 30496, Stop: 30768, Start Num: 2

Candidate Starts for Rumi_38:

(Start: 2 @30496 has 19 MA's), (Start: 3 @30499 has 3 MA's), (4, 30565), (5, 30568), (6, 30583), (7, 30592), (9, 30607), (10, 30667), (12, 30694), (14, 30736),

Gene: Sadboi_39 Start: 32977, Stop: 33249, Start Num: 2

Candidate Starts for Sadboi_39:

(Start: 2 @32977 has 19 MA's), (Start: 3 @32980 has 3 MA's), (4, 33046), (5, 33049), (6, 33064), (7, 33073), (8, 33085), (9, 33088), (10, 33148), (11, 33157), (12, 33175), (13, 33205), (14, 33217),

Gene: Sampudon_38 Start: 33145, Stop: 33417, Start Num: 2

Candidate Starts for Sampudon_38:

(Start: 2 @33145 has 19 MA's), (Start: 3 @33148 has 3 MA's), (4, 33214), (5, 33217), (6, 33232), (7, 33241), (8, 33253), (9, 33256), (10, 33316), (11, 33325), (12, 33343), (13, 33373), (14, 33385),

Gene: Wojtek_37 Start: 31844, Stop: 32116, Start Num: 2

Candidate Starts for Wojtek_37:

(Start: 2 @31844 has 19 MA's), (Start: 3 @31847 has 3 MA's), (4, 31913), (5, 31916), (6, 31931), (7, 31940), (8, 31952), (9, 31955), (10, 32015), (11, 32024), (12, 32042), (13, 32072), (14, 32084),

Gene: Yikes_39 Start: 33227, Stop: 33496, Start Num: 3

Candidate Starts for Yikes_39:

(Start: 2 @33224 has 19 MA's), (Start: 3 @33227 has 3 MA's), (4, 33293), (5, 33296), (6, 33311), (7, 33320), (8, 33332), (9, 33335), (10, 33395), (11, 33404), (12, 33422), (13, 33452), (14, 33464),

Gene: Zany_37 Start: 32749, Stop: 33021, Start Num: 2

Candidate Starts for Zany_37:

(Start: 2 @32749 has 19 MA's), (Start: 3 @32752 has 3 MA's), (4, 32818), (5, 32821), (6, 32836), (7, 32845), (8, 32857), (9, 32860), (10, 32920), (11, 32929), (12, 32947), (13, 32977), (14, 32989),