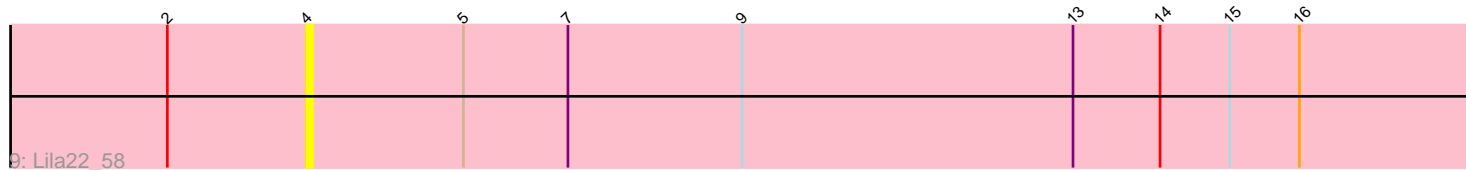
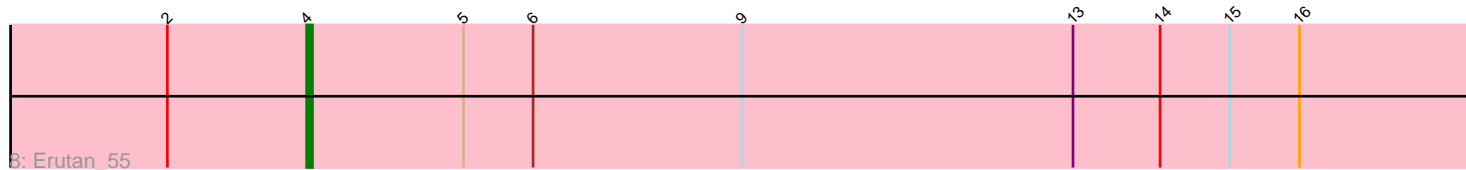
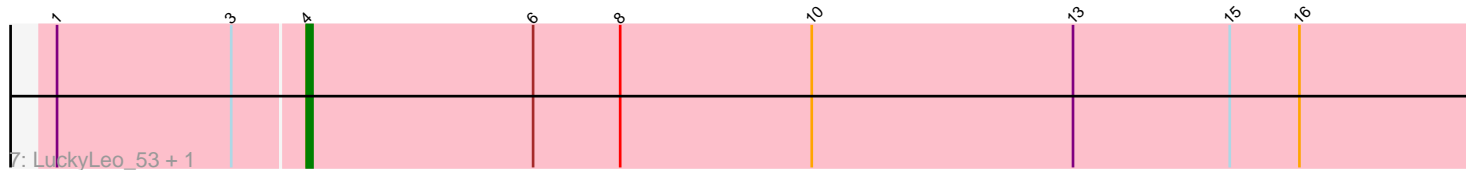
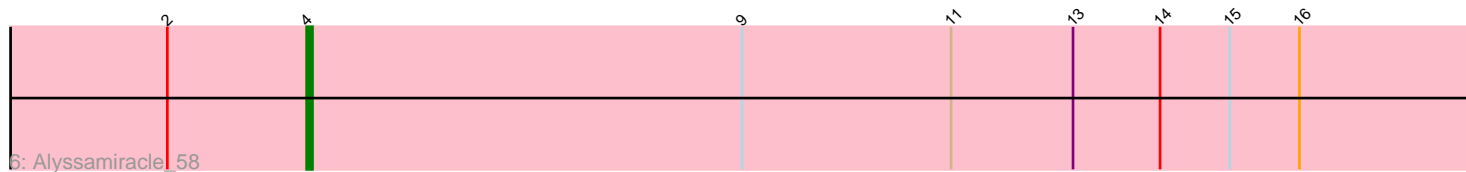
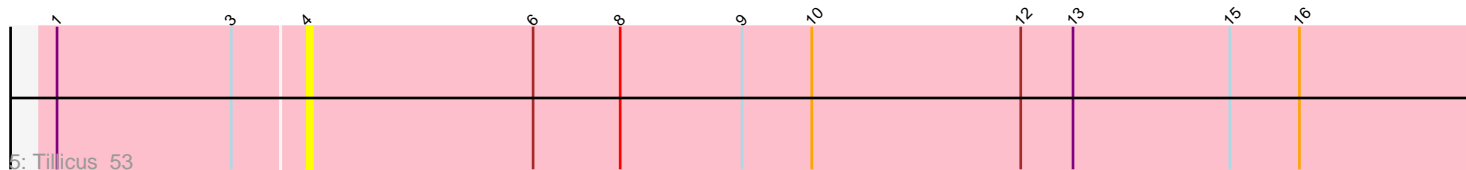
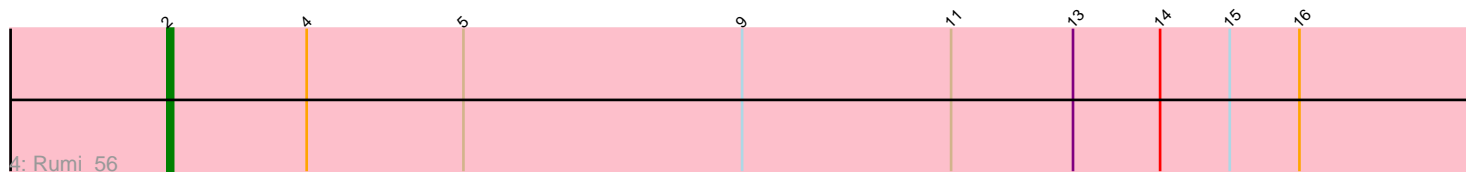
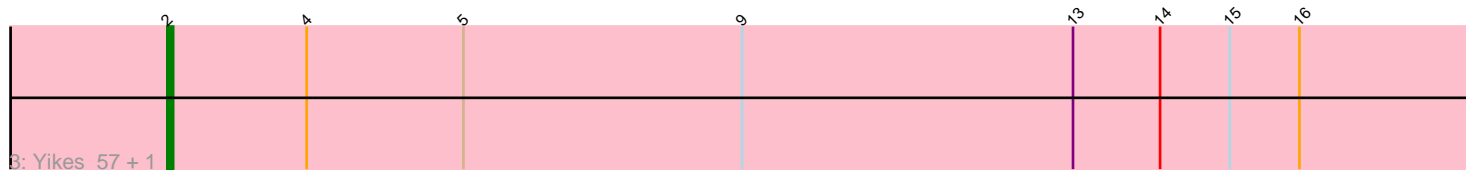
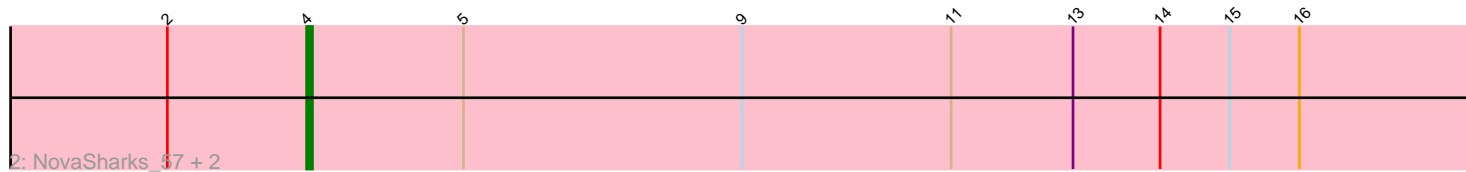
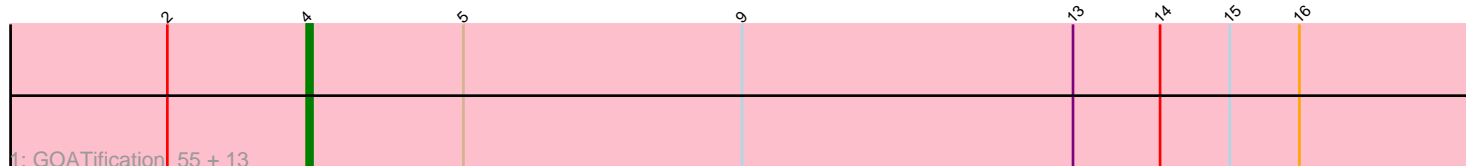


Pham 5023



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 5023 Report

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

Pham number 5023 has 26 members, 7 are drafts.

Phages represented in each track:

- Track 1 : GOATification_55, NorManre_58, Patos_58, OtterstedtS21_55, Fulcrum_55, Penjamin420_57, Jalebi_55, BirthdayBoy_57, MoiGyank_62, Gretellyn_55, DoobyDoo_55, Gibbin_57, ParvusTarda_54, Sampudon_56
- Track 2 : NovaSharks_57, Avian_55, Genamy16_58
- Track 3 : Yikes_57, Sadboi_56
- Track 4 : Rumi_56
- Track 5 : Tillicus_53
- Track 6 : Alyssamiracle_58
- Track 7 : LuckyLeo_53, Apeppi_51
- Track 8 : Erutan_55
- Track 9 : Lila22_58

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

The start number called the most often in the published annotations is 4, it was called in 16 of the 19 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Alyssamiracle_58, Apeppi_51, Avian_55, BirthdayBoy_57, DoobyDoo_55, Erutan_55, Fulcrum_55, GOATification_55, Genamy16_58, Gibbin_57, Gretellyn_55, Jalebi_55, Lila22_58, LuckyLeo_53, MoiGyank_62, NorManre_58, NovaSharks_57, OtterstedtS21_55, ParvusTarda_54, Patos_58, Penjamin420_57, Sampudon_56, Tillicus_53,

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

- Rumi_56, Sadboi_56, Yikes_57,

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

-

Summary by start number:

Start 2:

- Found in 23 of 26 (88.5%) of genes in pham

- Manual Annotations of this start: 3 of 19
- Called 13.0% of time when present
- Phage (with cluster) where this start called: Rumi_56 (DV), Sadboi_56 (DV), Yikes_57 (DV),

Start 4:

- Found in 26 of 26 (100.0%) of genes in pham
- Manual Annotations of this start: 16 of 19
- Called 88.5% of time when present
- Phage (with cluster) where this start called: Alyssamiracle_58 (DV), Apeppi_51 (DV), Avian_55 (DV), BirthdayBoy_57 (DV), DoobyDoo_55 (DV), Erutan_55 (DV), Fulcrum_55 (DV), GOATification_55 (DV), Genamy16_58 (DV), Gibbin_57 (DV), GretelLyn_55 (DV), Jalebi_55 (DV), Lila22_58 (DV), LuckyLeo_53 (DV), MoiGyank_62 (DV), NorManre_58 (DV), NovaSharks_57 (DV), OtterstedtS21_55 (DV), ParvusTarda_54 (DV), Patos_58 (DV), Penjamin420_57 (DV), Sampudon_56 (DV), Tillicus_53 (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 3 times for cluster DV.
- Start number 4 was manually annotated 16 times for cluster DV.

Gene Information:

Gene: Alyssamiracle_58 Start: 38276, Stop: 38500, Start Num: 4

Candidate Starts for Alyssamiracle_58:

(Start: 2 @38252 has 3 MA's), (Start: 4 @38276 has 16 MA's), (9, 38351), (11, 38387), (13, 38408), (14, 38423), (15, 38435), (16, 38447),

Gene: Apeppi_51 Start: 38490, Stop: 38714, Start Num: 4

Candidate Starts for Apeppi_51:

(1, 38448), (3, 38478), (Start: 4 @38490 has 16 MA's), (6, 38529), (8, 38544), (10, 38577), (13, 38622), (15, 38649), (16, 38661),

Gene: Avian_55 Start: 38004, Stop: 38228, Start Num: 4

Candidate Starts for Avian_55:

(Start: 2 @37980 has 3 MA's), (Start: 4 @38004 has 16 MA's), (5, 38031), (9, 38079), (11, 38115), (13, 38136), (14, 38151), (15, 38163), (16, 38175),

Gene: BirthdayBoy_57 Start: 39564, Stop: 39788, Start Num: 4

Candidate Starts for BirthdayBoy_57:

(Start: 2 @39540 has 3 MA's), (Start: 4 @39564 has 16 MA's), (5, 39591), (9, 39639), (13, 39696), (14, 39711), (15, 39723), (16, 39735),

Gene: DoobyDoo_55 Start: 38219, Stop: 38443, Start Num: 4

Candidate Starts for DoobyDoo_55:

(Start: 2 @38195 has 3 MA's), (Start: 4 @38219 has 16 MA's), (5, 38246), (9, 38294), (13, 38351), (14, 38366), (15, 38378), (16, 38390),

Gene: Erutan_55 Start: 38750, Stop: 38974, Start Num: 4

Candidate Starts for Erutan_55:

(Start: 2 @38726 has 3 MA's), (Start: 4 @38750 has 16 MA's), (5, 38777), (6, 38789), (9, 38825), (13, 38882), (14, 38897), (15, 38909), (16, 38921),

Gene: Fulcrum_55 Start: 38858, Stop: 39082, Start Num: 4

Candidate Starts for Fulcrum_55:

(Start: 2 @38834 has 3 MA's), (Start: 4 @38858 has 16 MA's), (5, 38885), (9, 38933), (13, 38990), (14, 39005), (15, 39017), (16, 39029),

Gene: GOATification_55 Start: 38858, Stop: 39082, Start Num: 4

Candidate Starts for GOATification_55:

(Start: 2 @38834 has 3 MA's), (Start: 4 @38858 has 16 MA's), (5, 38885), (9, 38933), (13, 38990), (14, 39005), (15, 39017), (16, 39029),

Gene: Genamy16_58 Start: 38262, Stop: 38486, Start Num: 4

Candidate Starts for Genamy16_58:

(Start: 2 @38238 has 3 MA's), (Start: 4 @38262 has 16 MA's), (5, 38289), (9, 38337), (11, 38373), (13, 38394), (14, 38409), (15, 38421), (16, 38433),

Gene: Gibbin_57 Start: 39636, Stop: 39860, Start Num: 4

Candidate Starts for Gibbin_57:

(Start: 2 @39612 has 3 MA's), (Start: 4 @39636 has 16 MA's), (5, 39663), (9, 39711), (13, 39768), (14, 39783), (15, 39795), (16, 39807),

Gene: Gretellyn_55 Start: 39710, Stop: 39934, Start Num: 4

Candidate Starts for Gretellyn_55:

(Start: 2 @39686 has 3 MA's), (Start: 4 @39710 has 16 MA's), (5, 39737), (9, 39785), (13, 39842), (14, 39857), (15, 39869), (16, 39881),

Gene: Jalebi_55 Start: 40055, Stop: 40279, Start Num: 4

Candidate Starts for Jalebi_55:

(Start: 2 @40031 has 3 MA's), (Start: 4 @40055 has 16 MA's), (5, 40082), (9, 40130), (13, 40187), (14, 40202), (15, 40214), (16, 40226),

Gene: Lila22_58 Start: 39553, Stop: 39777, Start Num: 4

Candidate Starts for Lila22_58:

(Start: 2 @39529 has 3 MA's), (Start: 4 @39553 has 16 MA's), (5, 39580), (7, 39598), (9, 39628), (13, 39685), (14, 39700), (15, 39712), (16, 39724),

Gene: LuckyLeo_53 Start: 38490, Stop: 38714, Start Num: 4

Candidate Starts for LuckyLeo_53:

(1, 38448), (3, 38478), (Start: 4 @38490 has 16 MA's), (6, 38529), (8, 38544), (10, 38577), (13, 38622), (15, 38649), (16, 38661),

Gene: MoiGyank_62 Start: 39990, Stop: 40214, Start Num: 4

Candidate Starts for MoiGyank_62:

(Start: 2 @39966 has 3 MA's), (Start: 4 @39990 has 16 MA's), (5, 40017), (9, 40065), (13, 40122), (14, 40137), (15, 40149), (16, 40161),

Gene: NorManre_58 Start: 39345, Stop: 39569, Start Num: 4

Candidate Starts for NorManre_58:

(Start: 2 @39321 has 3 MA's), (Start: 4 @39345 has 16 MA's), (5, 39372), (9, 39420), (13, 39477), (14, 39492), (15, 39504), (16, 39516),

Gene: NovaSharks_57 Start: 37853, Stop: 38077, Start Num: 4

Candidate Starts for NovaSharks_57:

(Start: 2 @37829 has 3 MA's), (Start: 4 @37853 has 16 MA's), (5, 37880), (9, 37928), (11, 37964), (13, 37985), (14, 38000), (15, 38012), (16, 38024),

Gene: OtterstedtS21_55 Start: 38996, Stop: 39220, Start Num: 4

Candidate Starts for OtterstedtS21_55:

(Start: 2 @38972 has 3 MA's), (Start: 4 @38996 has 16 MA's), (5, 39023), (9, 39071), (13, 39128), (14, 39143), (15, 39155), (16, 39167),

Gene: ParvusTarda_54 Start: 38376, Stop: 38600, Start Num: 4

Candidate Starts for ParvusTarda_54:

(Start: 2 @38352 has 3 MA's), (Start: 4 @38376 has 16 MA's), (5, 38403), (9, 38451), (13, 38508), (14, 38523), (15, 38535), (16, 38547),

Gene: Patos_58 Start: 39344, Stop: 39568, Start Num: 4

Candidate Starts for Patos_58:

(Start: 2 @39320 has 3 MA's), (Start: 4 @39344 has 16 MA's), (5, 39371), (9, 39419), (13, 39476), (14, 39491), (15, 39503), (16, 39515),

Gene: Penjamin420_57 Start: 39166, Stop: 39390, Start Num: 4

Candidate Starts for Penjamin420_57:

(Start: 2 @39142 has 3 MA's), (Start: 4 @39166 has 16 MA's), (5, 39193), (9, 39241), (13, 39298), (14, 39313), (15, 39325), (16, 39337),

Gene: Rumi_56 Start: 37526, Stop: 37774, Start Num: 2

Candidate Starts for Rumi_56:

(Start: 2 @37526 has 3 MA's), (Start: 4 @37550 has 16 MA's), (5, 37577), (9, 37625), (11, 37661), (13, 37682), (14, 37697), (15, 37709), (16, 37721),

Gene: Sadboi_56 Start: 39687, Stop: 39935, Start Num: 2

Candidate Starts for Sadboi_56:

(Start: 2 @39687 has 3 MA's), (Start: 4 @39711 has 16 MA's), (5, 39738), (9, 39786), (13, 39843), (14, 39858), (15, 39870), (16, 39882),

Gene: Sampudon_56 Start: 40055, Stop: 40279, Start Num: 4

Candidate Starts for Sampudon_56:

(Start: 2 @40031 has 3 MA's), (Start: 4 @40055 has 16 MA's), (5, 40082), (9, 40130), (13, 40187), (14, 40202), (15, 40214), (16, 40226),

Gene: Tillicus_53 Start: 38431, Stop: 38646, Start Num: 4

Candidate Starts for Tillicus_53:

(1, 38389), (3, 38419), (Start: 4 @38431 has 16 MA's), (6, 38470), (8, 38485), (9, 38506), (10, 38518), (12, 38554), (13, 38563), (15, 38590), (16, 38602),

Gene: Yikes_57 Start: 40098, Stop: 40346, Start Num: 2

Candidate Starts for Yikes_57:

(Start: 2 @40098 has 3 MA's), (Start: 4 @40122 has 16 MA's), (5, 40149), (9, 40197), (13, 40254), (14, 40269), (15, 40281), (16, 40293),