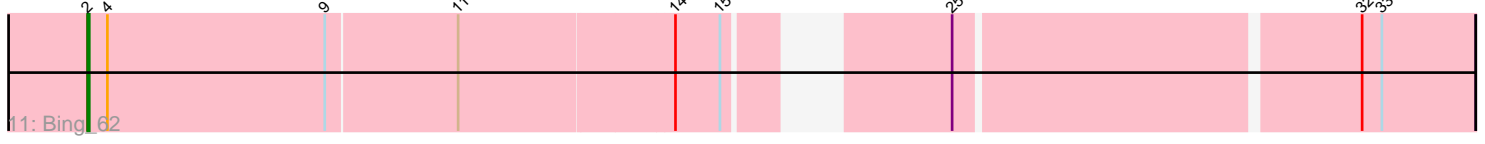
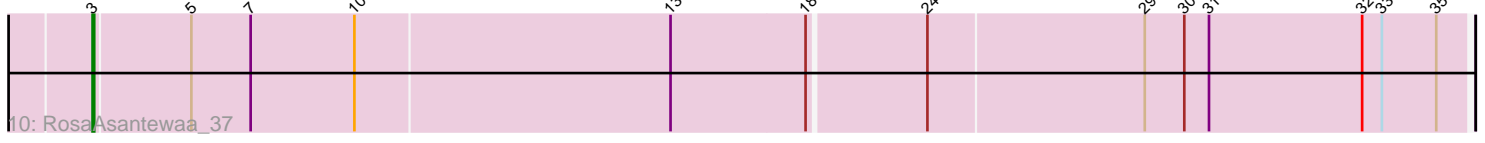
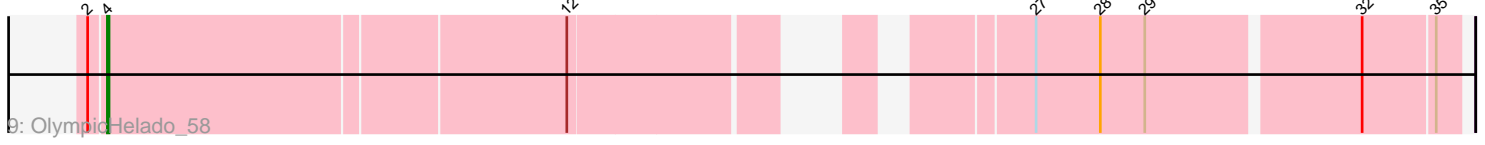
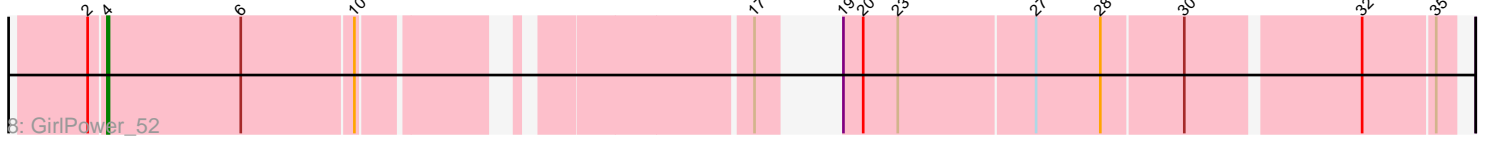
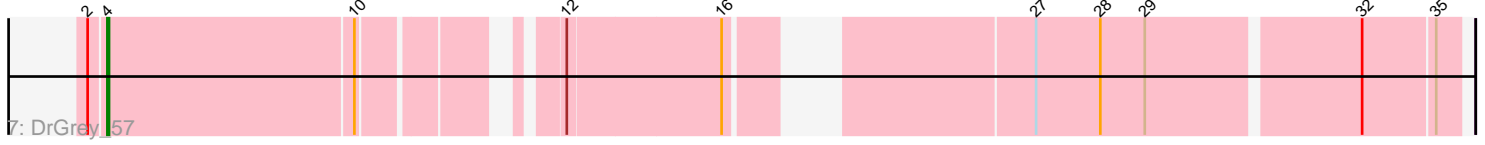
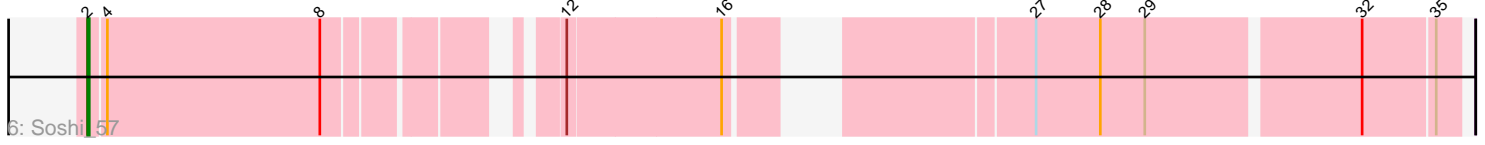
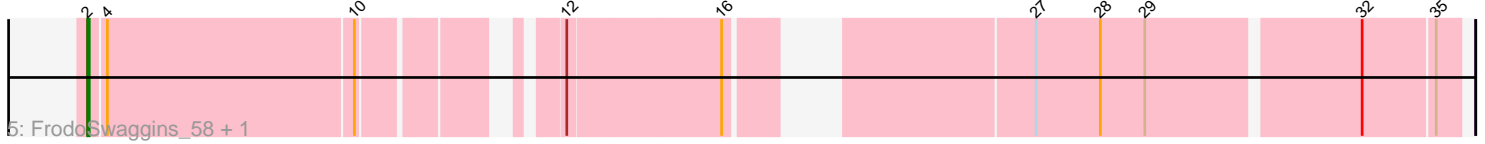
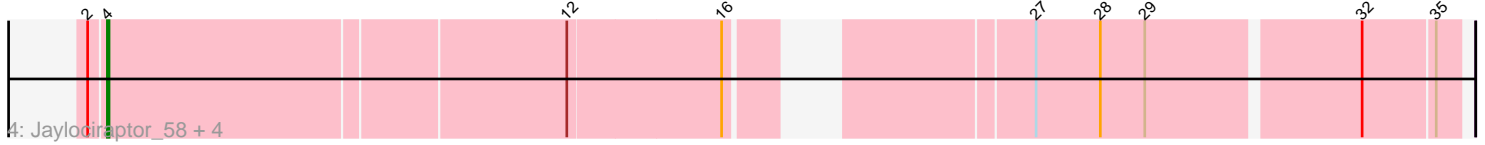
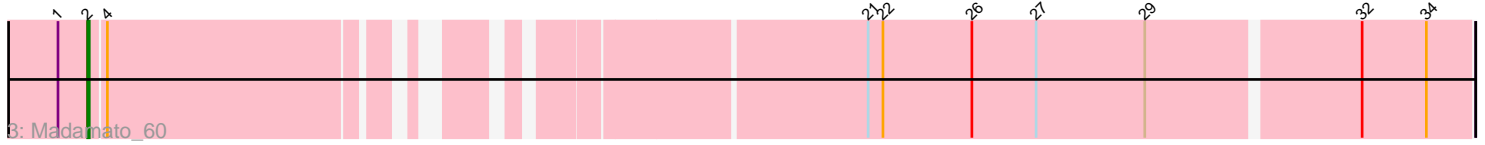
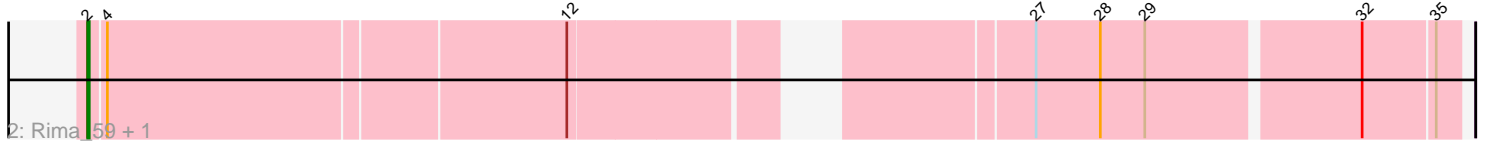
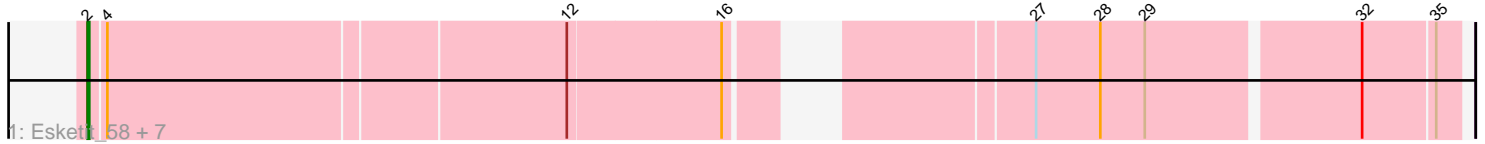


Pham 162133



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 162133 Report

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

Pham number 162133 has 24 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Esketit_58, TaidaOne_58, Meibysrarus_56, TonyStarch_57, Hoshi_57, Maya_58, TieDye_57, IceWarrior_57
- Track 2 : Rima_59, Namu_59
- Track 3 : Madamoto_60
- Track 4 : Jaylociraptor_58, FidgetOrca_58, Indigenous_58, Spectropatronm_58, CherryBlossom_58
- Track 5 : FrodoSwaggins_58, Popy_58
- Track 6 : Soshi_57
- Track 7 : DrGrey_57
- Track 8 : GirlPower_52
- Track 9 : OlympicHelado_58
- Track 10 : RosaAsantewaa_37
- Track 11 : Bing_62

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 15 of the 24 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Bing_62, Esketit_58, FrodoSwaggins_58, Hoshi_57, IceWarrior_57, Madamoto_60, Maya_58, Meibysrarus_56, Namu_59, Popy_58, Rima_59, Soshi_57, TaidaOne_58, TieDye_57, TonyStarch_57,

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

- CherryBlossom_58, DrGrey_57, FidgetOrca_58, GirlPower_52, Indigenous_58, Jaylociraptor_58, OlympicHelado_58, Spectropatronm_58,

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

- RosaAsantewaa_37,

Summary by start number:

Start 2:

- Found in 23 of 24 (95.8%) of genes in pham
- Manual Annotations of this start: 15 of 24
- Called 65.2% of time when present
- Phage (with cluster) where this start called: Bing_62 (BI5), Esketit_58 (BI1), FrodoSwaggins_58 (BI1), Hoshi_57 (BI1), IceWarrior_57 (BI1), Madamoto_60 (BI1), Maya_58 (BI1), Meibysrarus_56 (BI1), Namu_59 (BI1), Popy_58 (BI1), Rima_59 (BI1), Soshi_57 (BI1), TaidaOne_58 (BI1), TieDye_57 (BI1), TonyStarch_57 (BI1),

Start 3:

- Found in 1 of 24 (4.2%) of genes in pham
- Manual Annotations of this start: 1 of 24
- Called 100.0% of time when present
- Phage (with cluster) where this start called: RosaAsantewaa_37 (BI2),

Start 4:

- Found in 23 of 24 (95.8%) of genes in pham
- Manual Annotations of this start: 8 of 24
- Called 34.8% of time when present
- Phage (with cluster) where this start called: CherryBlossom_58 (BI1), DrGrey_57 (BI1), FidgetOrca_58 (BI1), GirlPower_52 (BI1), Indigenous_58 (BI1), Jaylociraptor_58 (BI1), OlympicHelado_58 (BI1), Spectropatronm_58 (BI1),

Summary by clusters:

There are 3 clusters represented in this pham: BI5, BI2, BI1,

Info for manual annotations of cluster BI1:

- Start number 2 was manually annotated 14 times for cluster BI1.
- Start number 4 was manually annotated 8 times for cluster BI1.

Info for manual annotations of cluster BI2:

- Start number 3 was manually annotated 1 time for cluster BI2.

Info for manual annotations of cluster BI5:

- Start number 2 was manually annotated 1 time for cluster BI5.

Gene Information:

Gene: Bing_62 Start: 37589, Stop: 38362, Start Num: 2

Candidate Starts for Bing_62:

(Start: 2 @37589 has 15 MA's), (Start: 4 @37601 has 8 MA's), (9, 37733), (11, 37811), (14, 37937), (15, 37964), (25, 38060), (32, 38294), (33, 38306),

Gene: CherryBlossom_58 Start: 36769, Stop: 37482, Start Num: 4

Candidate Starts for CherryBlossom_58:

(Start: 2 @36760 has 15 MA's), (Start: 4 @36769 has 8 MA's), (12, 37006), (16, 37096), (27, 37237), (28, 37276), (29, 37303), (32, 37426), (35, 37468),

Gene: DrGrey_57 Start: 37134, Stop: 37850, Start Num: 4

Candidate Starts for DrGrey_57:

(Start: 2 @37125 has 15 MA's), (Start: 4 @37134 has 8 MA's), (10, 37281), (12, 37371), (16, 37461), (27, 37605), (28, 37644), (29, 37671), (32, 37794), (35, 37836),

Gene: Esketit_58 Start: 36870, Stop: 37625, Start Num: 2

Candidate Starts for Esketit_58:

(Start: 2 @36870 has 15 MA's), (Start: 4 @36879 has 8 MA's), (12, 37149), (16, 37239), (27, 37380), (28, 37419), (29, 37446), (32, 37569), (35, 37611),

Gene: FidgetOrca_58 Start: 36869, Stop: 37615, Start Num: 4

Candidate Starts for FidgetOrca_58:

(Start: 2 @36860 has 15 MA's), (Start: 4 @36869 has 8 MA's), (12, 37139), (16, 37229), (27, 37370), (28, 37409), (29, 37436), (32, 37559), (35, 37601),

Gene: FrodoSwaggins_58 Start: 37519, Stop: 38244, Start Num: 2

Candidate Starts for FrodoSwaggins_58:

(Start: 2 @37519 has 15 MA's), (Start: 4 @37528 has 8 MA's), (10, 37675), (12, 37765), (16, 37855), (27, 37999), (28, 38038), (29, 38065), (32, 38188), (35, 38230),

Gene: GirlPower_52 Start: 37115, Stop: 37828, Start Num: 4

Candidate Starts for GirlPower_52:

(Start: 2 @37106 has 15 MA's), (Start: 4 @37115 has 8 MA's), (6, 37196), (10, 37262), (17, 37460), (19, 37475), (20, 37487), (23, 37508), (27, 37589), (28, 37628), (30, 37676), (32, 37775), (35, 37817),

Gene: Hoshi_57 Start: 36467, Stop: 37222, Start Num: 2

Candidate Starts for Hoshi_57:

(Start: 2 @36467 has 15 MA's), (Start: 4 @36476 has 8 MA's), (12, 36746), (16, 36836), (27, 36977), (28, 37016), (29, 37043), (32, 37166), (35, 37208),

Gene: IceWarrior_57 Start: 36546, Stop: 37301, Start Num: 2

Candidate Starts for IceWarrior_57:

(Start: 2 @36546 has 15 MA's), (Start: 4 @36555 has 8 MA's), (12, 36825), (16, 36915), (27, 37056), (28, 37095), (29, 37122), (32, 37245), (35, 37287),

Gene: Indigenous_58 Start: 36873, Stop: 37619, Start Num: 4

Candidate Starts for Indigenous_58:

(Start: 2 @36864 has 15 MA's), (Start: 4 @36873 has 8 MA's), (12, 37143), (16, 37233), (27, 37374), (28, 37413), (29, 37440), (32, 37563), (35, 37605),

Gene: Jaylociraptor_58 Start: 36872, Stop: 37618, Start Num: 4

Candidate Starts for Jaylociraptor_58:

(Start: 2 @36863 has 15 MA's), (Start: 4 @36872 has 8 MA's), (12, 37142), (16, 37232), (27, 37373), (28, 37412), (29, 37439), (32, 37562), (35, 37604),

Gene: Madamoto_60 Start: 37006, Stop: 37764, Start Num: 2

Candidate Starts for Madamoto_60:

(1, 36988), (Start: 2 @37006 has 15 MA's), (Start: 4 @37015 has 8 MA's), (21, 37408), (22, 37417), (26, 37471), (27, 37510), (29, 37576), (32, 37699), (34, 37738),

Gene: Maya_58 Start: 36877, Stop: 37632, Start Num: 2

Candidate Starts for Maya_58:

(Start: 2 @36877 has 15 MA's), (Start: 4 @36886 has 8 MA's), (12, 37156), (16, 37246), (27, 37387), (28, 37426), (29, 37453), (32, 37576), (35, 37618),

Gene: Meibysrarus_56 Start: 36240, Stop: 36995, Start Num: 2

Candidate Starts for Meibysrarus_56:

(Start: 2 @36240 has 15 MA's), (Start: 4 @36249 has 8 MA's), (12, 36519), (16, 36609), (27, 36750), (28, 36789), (29, 36816), (32, 36939), (35, 36981),

Gene: Namo_59 Start: 37214, Stop: 37969, Start Num: 2

Candidate Starts for Namo_59:

(Start: 2 @37214 has 15 MA's), (Start: 4 @37223 has 8 MA's), (12, 37493), (27, 37724), (28, 37763), (29, 37790), (32, 37913), (35, 37955),

Gene: OlympicHelado_58 Start: 36900, Stop: 37625, Start Num: 4

Candidate Starts for OlympicHelado_58:

(Start: 2 @36891 has 15 MA's), (Start: 4 @36900 has 8 MA's), (12, 37170), (27, 37380), (28, 37419), (29, 37446), (32, 37569), (35, 37611),

Gene: Popy_58 Start: 37519, Stop: 38244, Start Num: 2

Candidate Starts for Popy_58:

(Start: 2 @37519 has 15 MA's), (Start: 4 @37528 has 8 MA's), (10, 37675), (12, 37765), (16, 37855), (27, 37999), (28, 38038), (29, 38065), (32, 38188), (35, 38230),

Gene: Rima_59 Start: 37214, Stop: 37969, Start Num: 2

Candidate Starts for Rima_59:

(Start: 2 @37214 has 15 MA's), (Start: 4 @37223 has 8 MA's), (12, 37493), (27, 37724), (28, 37763), (29, 37790), (32, 37913), (35, 37955),

Gene: RosaAsantewaa_37 Start: 28089, Stop: 28907, Start Num: 3

Candidate Starts for RosaAsantewaa_37:

(Start: 3 @28089 has 1 MA's), (5, 28146), (7, 28182), (10, 28245), (13, 28434), (18, 28515), (24, 28584), (29, 28713), (30, 28737), (31, 28752), (32, 28845), (33, 28857), (35, 28890),

Gene: Soshi_57 Start: 37138, Stop: 37860, Start Num: 2

Candidate Starts for Soshi_57:

(Start: 2 @37138 has 15 MA's), (Start: 4 @37147 has 8 MA's), (8, 37276), (12, 37384), (16, 37474), (27, 37615), (28, 37654), (29, 37681), (32, 37804), (35, 37846),

Gene: Spectropatronm_58 Start: 36879, Stop: 37625, Start Num: 4

Candidate Starts for Spectropatronm_58:

(Start: 2 @36870 has 15 MA's), (Start: 4 @36879 has 8 MA's), (12, 37149), (16, 37239), (27, 37380), (28, 37419), (29, 37446), (32, 37569), (35, 37611),

Gene: TaidaOne_58 Start: 37373, Stop: 38128, Start Num: 2

Candidate Starts for TaidaOne_58:

(Start: 2 @37373 has 15 MA's), (Start: 4 @37382 has 8 MA's), (12, 37652), (16, 37742), (27, 37883), (28, 37922), (29, 37949), (32, 38072), (35, 38114),

Gene: TieDye_57 Start: 36461, Stop: 37204, Start Num: 2

Candidate Starts for TieDye_57:

(Start: 2 @36461 has 15 MA's), (Start: 4 @36470 has 8 MA's), (12, 36728), (16, 36818), (27, 36959), (28, 36998), (29, 37025), (32, 37148), (35, 37190),

Gene: TonyStarch_57 Start: 36612, Stop: 37367, Start Num: 2

Candidate Starts for TonyStarch_57:

(Start: 2 @36612 has 15 MA's), (Start: 4 @36621 has 8 MA's), (12, 36891), (16, 36981), (27, 37122), (28, 37161), (29, 37188), (32, 37311), (35, 37353),