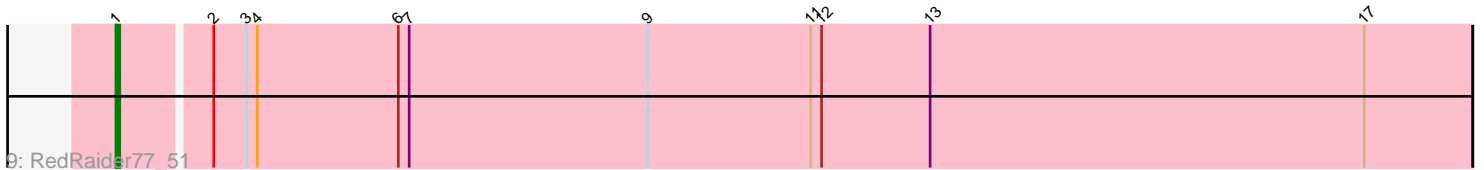
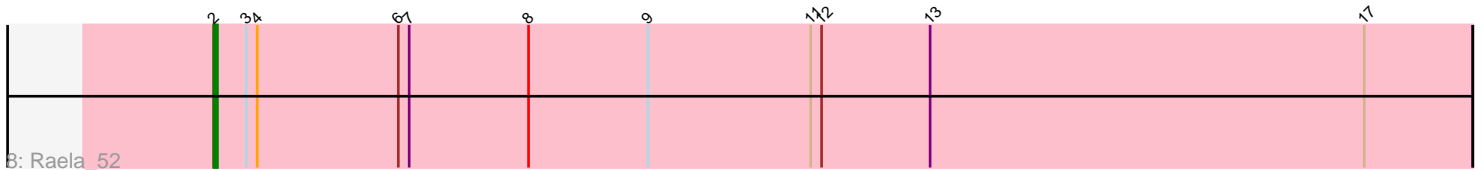
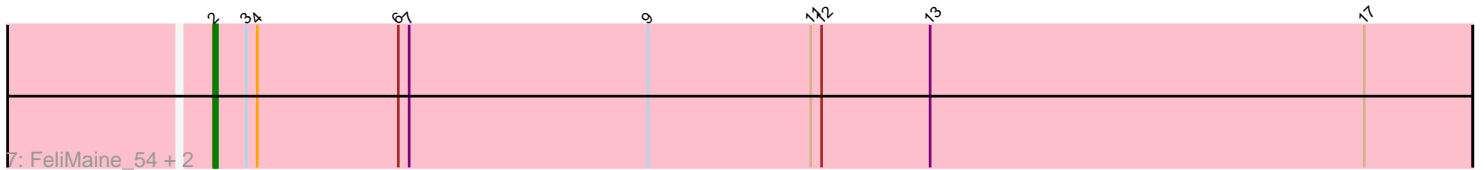
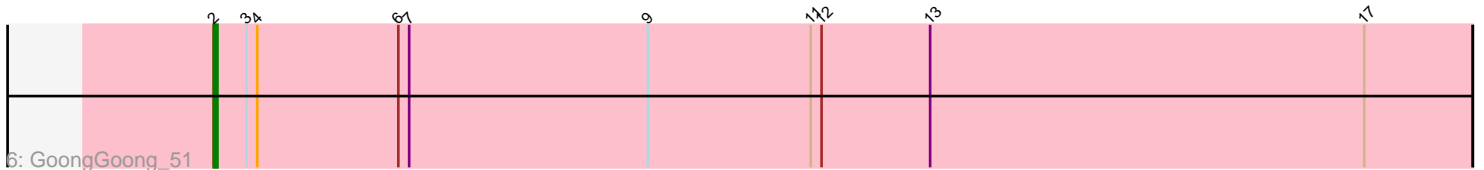
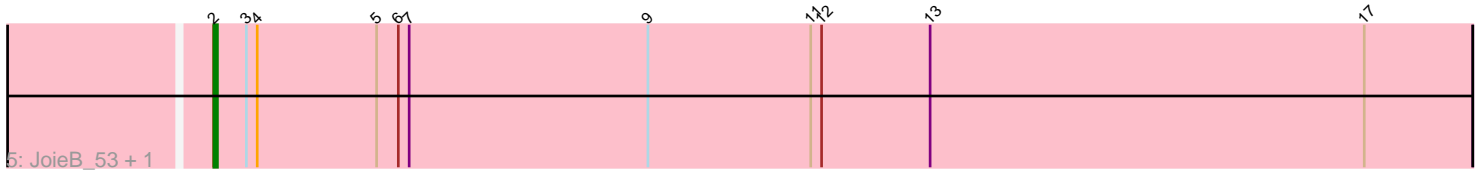
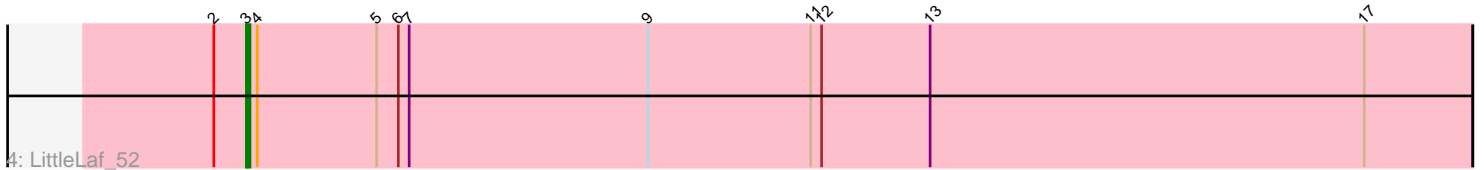
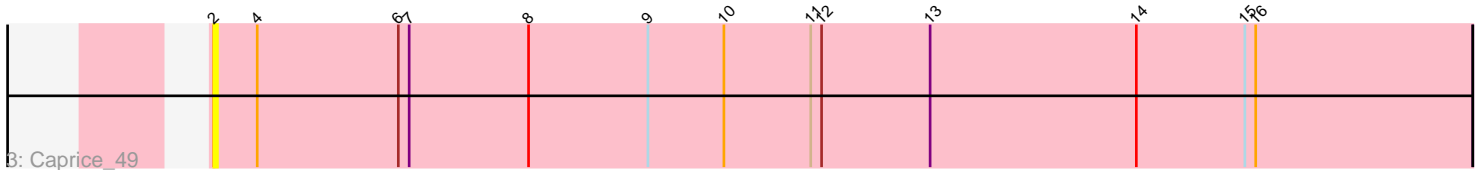
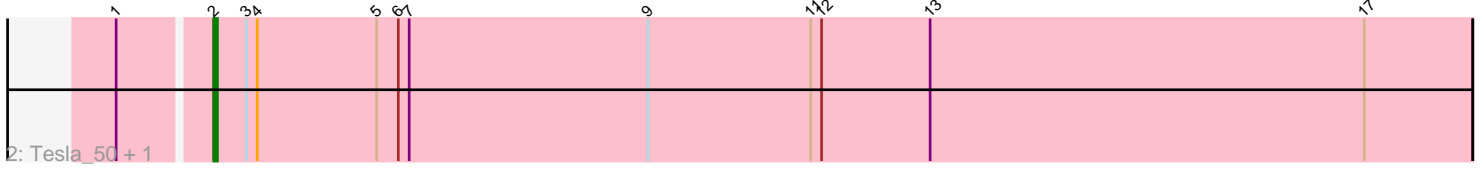
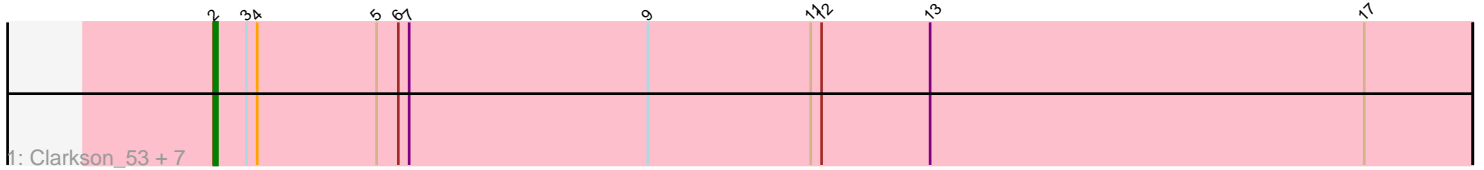


Pham 293164



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 293164 Report

This analysis was run 04/18/26 on database version 643.

Pham number 293164 has 20 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Clarkson_53, Blackbeetle_52, Huphlepuuff_54, VasuNzinga_52, Beelzebub_56, Pringar_52, Lilbit_51, Poise_52
- Track 2 : Tesla_50, Marvin_49
- Track 3 : Caprice_49
- Track 4 : LittleLaf_52
- Track 5 : JoieB_53, Corazon_50
- Track 6 : GoongGoong_51
- Track 7 : FeliMaine_54, Gattaca_51, MosMoris_50
- Track 8 : Raela_52
- Track 9 : RedRaider77_51

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 17 of the 19 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Beelzebub_56, Blackbeetle_52, Caprice_49, Clarkson_53, Corazon_50, FeliMaine_54, Gattaca_51, GoongGoong_51, Huphlepuuff_54, JoieB_53, Lilbit_51, Marvin_49, MosMoris_50, Poise_52, Pringar_52, Raela_52, Tesla_50, VasuNzinga_52,

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

- LittleLaf_52, RedRaider77_51,

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

-

Summary by start number:

Start 1:

- Found in 3 of 20 (15.0%) of genes in pham
- Manual Annotations of this start: 1 of 19
- Called 33.3% of time when present

- Phage (with cluster) where this start called: RedRaider77_51 (S),

Start 2:

- Found in 20 of 20 (100.0%) of genes in pham
- Manual Annotations of this start: 17 of 19
- Called 90.0% of time when present
- Phage (with cluster) where this start called: Beelzebub_56 (S), Blackbeetle_52 (S), Caprice_49 (S), Clarkson_53 (S), Corazon_50 (S), FeliMaine_54 (S), Gattaca_51 (S), GoongGoong_51 (S), Huphlepuuff_54 (S), JoieB_53 (S), Lilbit_51 (S), Marvin_49 (S), MosMoris_50 (S), Poise_52 (S), Pringar_52 (S), Raela_52 (S), Tesla_50 (S), VasuNzinga_52 (S),

Start 3:

- Found in 19 of 20 (95.0%) of genes in pham
- Manual Annotations of this start: 1 of 19
- Called 5.3% of time when present
- Phage (with cluster) where this start called: LittleLaf_52 (S),

Summary by clusters:

There is one cluster represented in this pham: S

Info for manual annotations of cluster S:

- Start number 1 was manually annotated 1 time for cluster S.
- Start number 2 was manually annotated 17 times for cluster S.
- Start number 3 was manually annotated 1 time for cluster S.

Gene Information:

Gene: Beelzebub_56 Start: 29928, Stop: 30275, Start Num: 2

Candidate Starts for Beelzebub_56:

(Start: 2 @29928 has 17 MA's), (Start: 3 @29937 has 1 MA's), (4, 29940), (5, 29973), (6, 29979), (7, 29982), (9, 30048), (11, 30093), (12, 30096), (13, 30126), (17, 30246),

Gene: Blackbeetle_52 Start: 28974, Stop: 29321, Start Num: 2

Candidate Starts for Blackbeetle_52:

(Start: 2 @28974 has 17 MA's), (Start: 3 @28983 has 1 MA's), (4, 28986), (5, 29019), (6, 29025), (7, 29028), (9, 29094), (11, 29139), (12, 29142), (13, 29172), (17, 29292),

Gene: Caprice_49 Start: 29287, Stop: 29634, Start Num: 2

Candidate Starts for Caprice_49:

(Start: 2 @29287 has 17 MA's), (4, 29299), (6, 29338), (7, 29341), (8, 29374), (9, 29407), (10, 29428), (11, 29452), (12, 29455), (13, 29485), (14, 29542), (15, 29572), (16, 29575),

Gene: Clarkson_53 Start: 29656, Stop: 30003, Start Num: 2

Candidate Starts for Clarkson_53:

(Start: 2 @29656 has 17 MA's), (Start: 3 @29665 has 1 MA's), (4, 29668), (5, 29701), (6, 29707), (7, 29710), (9, 29776), (11, 29821), (12, 29824), (13, 29854), (17, 29974),

Gene: Corazon_50 Start: 29850, Stop: 30197, Start Num: 2

Candidate Starts for Corazon_50:

(Start: 2 @29850 has 17 MA's), (Start: 3 @29859 has 1 MA's), (4, 29862), (5, 29895), (6, 29901), (7, 29904), (9, 29970), (11, 30015), (12, 30018), (13, 30048), (17, 30168),

Gene: FeliMaine_54 Start: 29898, Stop: 30245, Start Num: 2

Candidate Starts for FeliMaine_54:

(Start: 2 @29898 has 17 MA's), (Start: 3 @29907 has 1 MA's), (4, 29910), (6, 29949), (7, 29952), (9, 30018), (11, 30063), (12, 30066), (13, 30096), (17, 30216),

Gene: Gattaca_51 Start: 29077, Stop: 29424, Start Num: 2

Candidate Starts for Gattaca_51:

(Start: 2 @29077 has 17 MA's), (Start: 3 @29086 has 1 MA's), (4, 29089), (6, 29128), (7, 29131), (9, 29197), (11, 29242), (12, 29245), (13, 29275), (17, 29395),

Gene: GoongGoong_51 Start: 28876, Stop: 29223, Start Num: 2

Candidate Starts for GoongGoong_51:

(Start: 2 @28876 has 17 MA's), (Start: 3 @28885 has 1 MA's), (4, 28888), (6, 28927), (7, 28930), (9, 28996), (11, 29041), (12, 29044), (13, 29074), (17, 29194),

Gene: Huphleuff_54 Start: 29461, Stop: 29808, Start Num: 2

Candidate Starts for Huphleuff_54:

(Start: 2 @29461 has 17 MA's), (Start: 3 @29470 has 1 MA's), (4, 29473), (5, 29506), (6, 29512), (7, 29515), (9, 29581), (11, 29626), (12, 29629), (13, 29659), (17, 29779),

Gene: JoieB_53 Start: 29894, Stop: 30241, Start Num: 2

Candidate Starts for JoieB_53:

(Start: 2 @29894 has 17 MA's), (Start: 3 @29903 has 1 MA's), (4, 29906), (5, 29939), (6, 29945), (7, 29948), (9, 30014), (11, 30059), (12, 30062), (13, 30092), (17, 30212),

Gene: Lilbit_51 Start: 29657, Stop: 30004, Start Num: 2

Candidate Starts for Lilbit_51:

(Start: 2 @29657 has 17 MA's), (Start: 3 @29666 has 1 MA's), (4, 29669), (5, 29702), (6, 29708), (7, 29711), (9, 29777), (11, 29822), (12, 29825), (13, 29855), (17, 29975),

Gene: LittleLaf_52 Start: 29395, Stop: 29733, Start Num: 3

Candidate Starts for LittleLaf_52:

(Start: 2 @29386 has 17 MA's), (Start: 3 @29395 has 1 MA's), (4, 29398), (5, 29431), (6, 29437), (7, 29440), (9, 29506), (11, 29551), (12, 29554), (13, 29584), (17, 29704),

Gene: Marvin_49 Start: 29144, Stop: 29491, Start Num: 2

Candidate Starts for Marvin_49:

(Start: 1 @29120 has 1 MA's), (Start: 2 @29144 has 17 MA's), (Start: 3 @29153 has 1 MA's), (4, 29156), (5, 29189), (6, 29195), (7, 29198), (9, 29264), (11, 29309), (12, 29312), (13, 29342), (17, 29462),

Gene: MosMoris_50 Start: 29077, Stop: 29424, Start Num: 2

Candidate Starts for MosMoris_50:

(Start: 2 @29077 has 17 MA's), (Start: 3 @29086 has 1 MA's), (4, 29089), (6, 29128), (7, 29131), (9, 29197), (11, 29242), (12, 29245), (13, 29275), (17, 29395),

Gene: Poise_52 Start: 28974, Stop: 29321, Start Num: 2

Candidate Starts for Poise_52:

(Start: 2 @28974 has 17 MA's), (Start: 3 @28983 has 1 MA's), (4, 28986), (5, 29019), (6, 29025), (7, 29028), (9, 29094), (11, 29139), (12, 29142), (13, 29172), (17, 29292),

Gene: Pringar_52 Start: 29262, Stop: 29609, Start Num: 2

Candidate Starts for Pringar_52:

(Start: 2 @29262 has 17 MA's), (Start: 3 @29271 has 1 MA's), (4, 29274), (5, 29307), (6, 29313), (7, 29316), (9, 29382), (11, 29427), (12, 29430), (13, 29460), (17, 29580),

Gene: Raela_52 Start: 29529, Stop: 29876, Start Num: 2

Candidate Starts for Raela_52:

(Start: 2 @29529 has 17 MA's), (Start: 3 @29538 has 1 MA's), (4, 29541), (6, 29580), (7, 29583), (8, 29616), (9, 29649), (11, 29694), (12, 29697), (13, 29727), (17, 29847),

Gene: RedRaider77_51 Start: 28894, Stop: 29265, Start Num: 1

Candidate Starts for RedRaider77_51:

(Start: 1 @28894 has 1 MA's), (Start: 2 @28918 has 17 MA's), (Start: 3 @28927 has 1 MA's), (4, 28930), (6, 28969), (7, 28972), (9, 29038), (11, 29083), (12, 29086), (13, 29116), (17, 29236),

Gene: Tesla_50 Start: 28767, Stop: 29114, Start Num: 2

Candidate Starts for Tesla_50:

(Start: 1 @28743 has 1 MA's), (Start: 2 @28767 has 17 MA's), (Start: 3 @28776 has 1 MA's), (4, 28779), (5, 28812), (6, 28818), (7, 28821), (9, 28887), (11, 28932), (12, 28935), (13, 28965), (17, 29085),

Gene: VasuNzinga_52 Start: 28836, Stop: 29183, Start Num: 2

Candidate Starts for VasuNzinga_52:

(Start: 2 @28836 has 17 MA's), (Start: 3 @28845 has 1 MA's), (4, 28848), (5, 28881), (6, 28887), (7, 28890), (9, 28956), (11, 29001), (12, 29004), (13, 29034), (17, 29154),