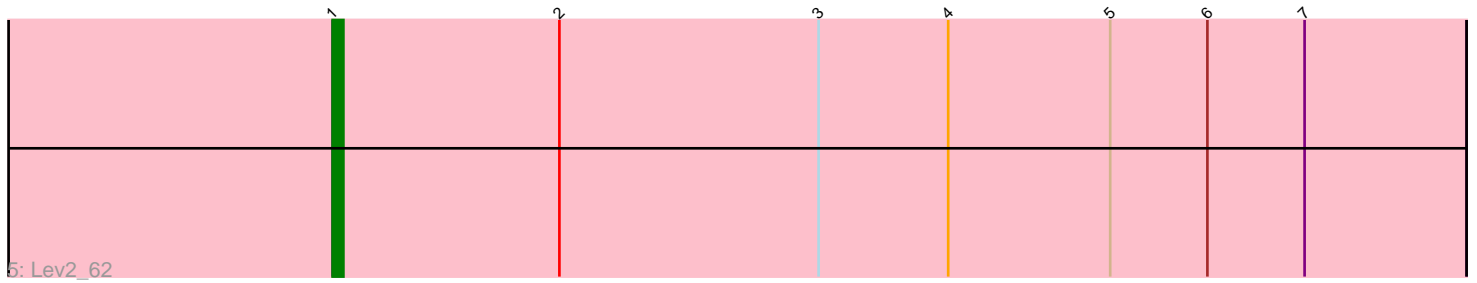
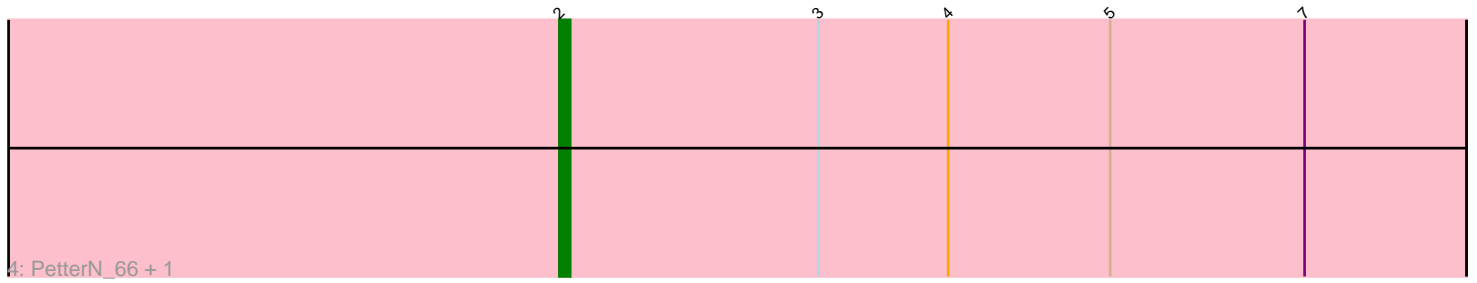
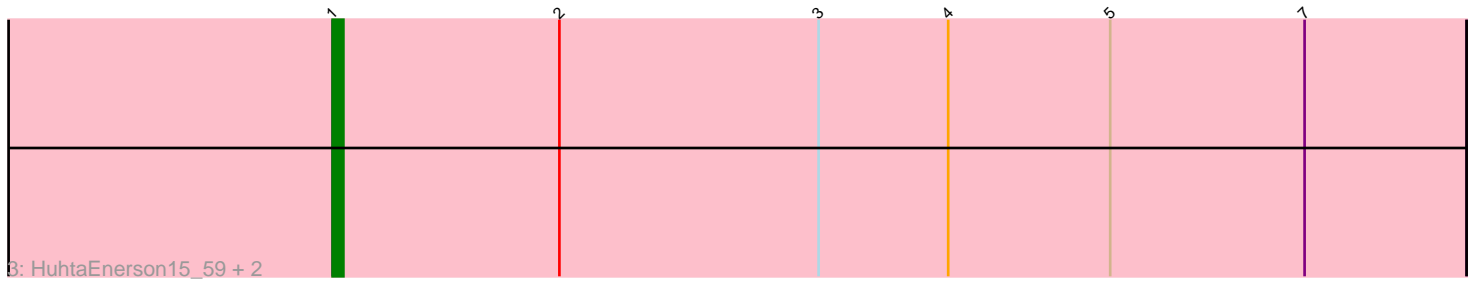
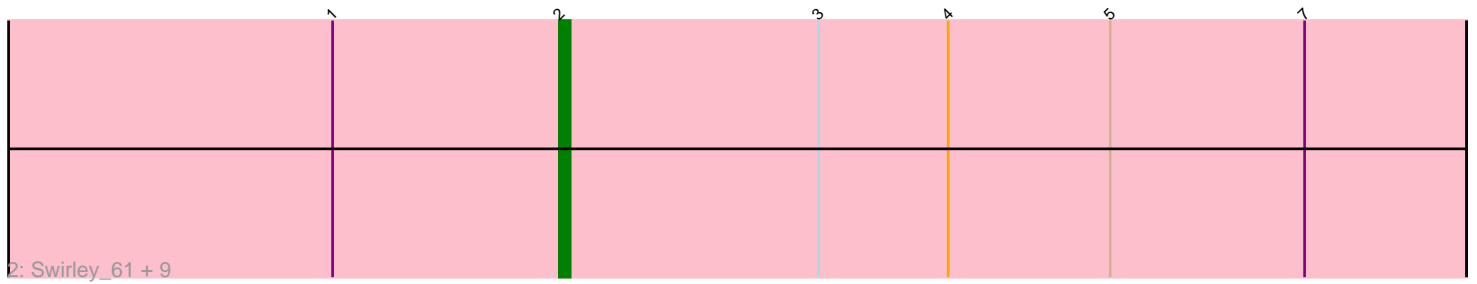
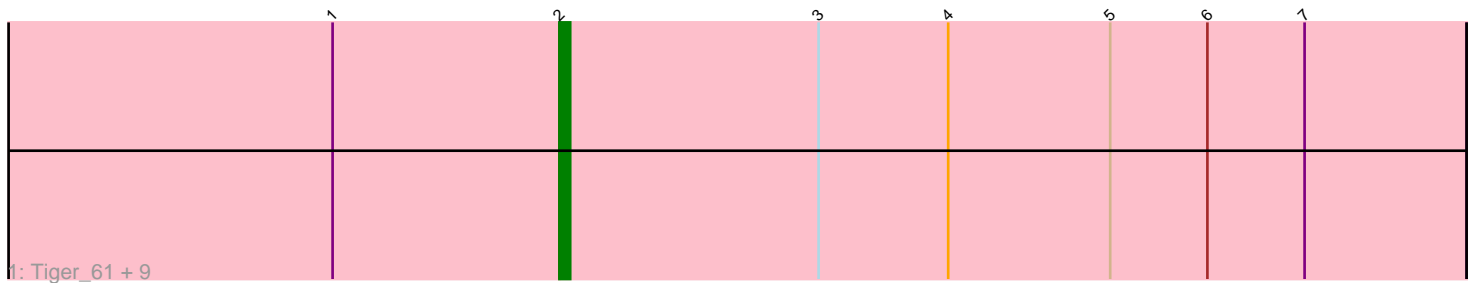


Pham 3148



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 3148 Report

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

Pham number 3148 has 26 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Tiger_61, AgentM_61, Discoknowium_59, Aragog_61, UnionJack_62, Jovo_62, PickleBack_62, Phlorence_60, ForGetIt_62, Conspiracy_62
- Track 2 : Swirley_61, Cuco_60, Jabiru_62, Airmid_61, Coog_58, ElTiger69_63, LittleCherry_59, Naca_61, Milcery_59, Tarynearal_58
- Track 3 : HuhtaEnerson15_59, Bonamassa_59, Midas2_58
- Track 4 : PetterN_66, Chadwick_63
- Track 5 : Lev2_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 22 of the 26 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AgentM_61, Airmid_61, Aragog_61, Chadwick_63, Conspiracy_62, Coog_58, Cuco_60, Discoknowium_59, ElTiger69_63, ForGetIt_62, Jabiru_62, Jovo_62, LittleCherry_59, Milcery_59, Naca_61, PetterN_66, Phlorence_60, PickleBack_62, Swirley_61, Tarynearal_58, Tiger_61, UnionJack_62,

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

- Bonamassa_59, HuhtaEnerson15_59, Lev2_62, Midas2_58,

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

-

Summary by start number:

Start 1:

- Found in 24 of 26 (92.3%) of genes in pham
- Manual Annotations of this start: 4 of 26
- Called 16.7% of time when present
- Phage (with cluster) where this start called: Bonamassa_59 (A5), HuhtaEnerson15_59 (A5), Lev2_62 (A5), Midas2_58 (A5),

Start 2:

- Found in 26 of 26 (100.0%) of genes in pham
- Manual Annotations of this start: 22 of 26
- Called 84.6% of time when present
- Phage (with cluster) where this start called: AgentM_61 (A5), Airmid_61 (A5), Aragog_61 (A5), Chadwick_63 (A5), Conspiracy_62 (A5), Coog_58 (A5), Cuco_60 (A5), Discoknowium_59 (A5), EITiger69_63 (A5), ForGetIt_62 (A5), Jabiru_62 (A5), Jovo_62 (A5), LittleCherry_59 (A5), Milcery_59 (A5), Naca_61 (A5), PetterN_66 (A5), Phlorence_60 (A5), PickleBack_62 (A5), Swirley_61 (A5), Tarynearal_58 (A5), Tiger_61 (A5), UnionJack_62 (A5),

Summary by clusters:

There is one cluster represented in this pham: A5

Info for manual annotations of cluster A5:

- Start number 1 was manually annotated 4 times for cluster A5.
- Start number 2 was manually annotated 22 times for cluster A5.

Gene Information:

Gene: AgentM_61 Start: 39977, Stop: 39894, Start Num: 2

Candidate Starts for AgentM_61:

(Start: 1 @39998 has 4 MA's), (Start: 2 @39977 has 22 MA's), (3, 39953), (4, 39941), (5, 39926), (6, 39917), (7, 39908),

Gene: Airmid_61 Start: 39969, Stop: 39886, Start Num: 2

Candidate Starts for Airmid_61:

(Start: 1 @39990 has 4 MA's), (Start: 2 @39969 has 22 MA's), (3, 39945), (4, 39933), (5, 39918), (7, 39900),

Gene: Aragog_61 Start: 39997, Stop: 39914, Start Num: 2

Candidate Starts for Aragog_61:

(Start: 1 @40018 has 4 MA's), (Start: 2 @39997 has 22 MA's), (3, 39973), (4, 39961), (5, 39946), (6, 39937), (7, 39928),

Gene: Bonamassa_59 Start: 39840, Stop: 39736, Start Num: 1

Candidate Starts for Bonamassa_59:

(Start: 1 @39840 has 4 MA's), (Start: 2 @39819 has 22 MA's), (3, 39795), (4, 39783), (5, 39768), (7, 39750),

Gene: Chadwick_63 Start: 39945, Stop: 39862, Start Num: 2

Candidate Starts for Chadwick_63:

(Start: 2 @39945 has 22 MA's), (3, 39921), (4, 39909), (5, 39894), (7, 39876),

Gene: Conspiracy_62 Start: 40219, Stop: 40136, Start Num: 2

Candidate Starts for Conspiracy_62:

(Start: 1 @40240 has 4 MA's), (Start: 2 @40219 has 22 MA's), (3, 40195), (4, 40183), (5, 40168), (6, 40159), (7, 40150),

Gene: Coog_58 Start: 40033, Stop: 39950, Start Num: 2

Candidate Starts for Coog_58:

(Start: 1 @40054 has 4 MA's), (Start: 2 @40033 has 22 MA's), (3, 40009), (4, 39997), (5, 39982), (7, 39964),

Gene: Cuco_60 Start: 39893, Stop: 39810, Start Num: 2

Candidate Starts for Cuco_60:

(Start: 1 @39914 has 4 MA's), (Start: 2 @39893 has 22 MA's), (3, 39869), (4, 39857), (5, 39842), (7, 39824),

Gene: Discoknowium_59 Start: 39736, Stop: 39653, Start Num: 2

Candidate Starts for Discoknowium_59:

(Start: 1 @39757 has 4 MA's), (Start: 2 @39736 has 22 MA's), (3, 39712), (4, 39700), (5, 39685), (6, 39676), (7, 39667),

Gene: ElTiger69_63 Start: 40193, Stop: 40110, Start Num: 2

Candidate Starts for ElTiger69_63:

(Start: 1 @40214 has 4 MA's), (Start: 2 @40193 has 22 MA's), (3, 40169), (4, 40157), (5, 40142), (7, 40124),

Gene: ForGetIt_62 Start: 40244, Stop: 40161, Start Num: 2

Candidate Starts for ForGetIt_62:

(Start: 1 @40265 has 4 MA's), (Start: 2 @40244 has 22 MA's), (3, 40220), (4, 40208), (5, 40193), (6, 40184), (7, 40175),

Gene: HuhtaEnerson15_59 Start: 39734, Stop: 39630, Start Num: 1

Candidate Starts for HuhtaEnerson15_59:

(Start: 1 @39734 has 4 MA's), (Start: 2 @39713 has 22 MA's), (3, 39689), (4, 39677), (5, 39662), (7, 39644),

Gene: Jabiru_62 Start: 40112, Stop: 40029, Start Num: 2

Candidate Starts for Jabiru_62:

(Start: 1 @40133 has 4 MA's), (Start: 2 @40112 has 22 MA's), (3, 40088), (4, 40076), (5, 40061), (7, 40043),

Gene: Jovo_62 Start: 40500, Stop: 40417, Start Num: 2

Candidate Starts for Jovo_62:

(Start: 1 @40521 has 4 MA's), (Start: 2 @40500 has 22 MA's), (3, 40476), (4, 40464), (5, 40449), (6, 40440), (7, 40431),

Gene: Lev2_62 Start: 40153, Stop: 40049, Start Num: 1

Candidate Starts for Lev2_62:

(Start: 1 @40153 has 4 MA's), (Start: 2 @40132 has 22 MA's), (3, 40108), (4, 40096), (5, 40081), (6, 40072), (7, 40063),

Gene: LittleCherry_59 Start: 39583, Stop: 39500, Start Num: 2

Candidate Starts for LittleCherry_59:

(Start: 1 @39604 has 4 MA's), (Start: 2 @39583 has 22 MA's), (3, 39559), (4, 39547), (5, 39532), (7, 39514),

Gene: Midas2_58 Start: 40054, Stop: 39950, Start Num: 1

Candidate Starts for Midas2_58:

(Start: 1 @40054 has 4 MA's), (Start: 2 @40033 has 22 MA's), (3, 40009), (4, 39997), (5, 39982), (7, 39964),

Gene: Milcery_59 Start: 39531, Stop: 39448, Start Num: 2

Candidate Starts for Milcery_59:

(Start: 1 @39552 has 4 MA's), (Start: 2 @39531 has 22 MA's), (3, 39507), (4, 39495), (5, 39480), (7, 39462),

Gene: Naca_61 Start: 40497, Stop: 40414, Start Num: 2

Candidate Starts for Naca_61:

(Start: 1 @40518 has 4 MA's), (Start: 2 @40497 has 22 MA's), (3, 40473), (4, 40461), (5, 40446), (7, 40428),

Gene: PetterN_66 Start: 40243, Stop: 40160, Start Num: 2

Candidate Starts for PetterN_66:

(Start: 2 @40243 has 22 MA's), (3, 40219), (4, 40207), (5, 40192), (7, 40174),

Gene: Phlorence_60 Start: 39877, Stop: 39794, Start Num: 2

Candidate Starts for Phlorence_60:

(Start: 1 @39898 has 4 MA's), (Start: 2 @39877 has 22 MA's), (3, 39853), (4, 39841), (5, 39826), (6, 39817), (7, 39808),

Gene: PickleBack_62 Start: 40054, Stop: 39971, Start Num: 2

Candidate Starts for PickleBack_62:

(Start: 1 @40075 has 4 MA's), (Start: 2 @40054 has 22 MA's), (3, 40030), (4, 40018), (5, 40003), (6, 39994), (7, 39985),

Gene: Swirley_61 Start: 39922, Stop: 39839, Start Num: 2

Candidate Starts for Swirley_61:

(Start: 1 @39943 has 4 MA's), (Start: 2 @39922 has 22 MA's), (3, 39898), (4, 39886), (5, 39871), (7, 39853),

Gene: Tarynearal_58 Start: 39517, Stop: 39434, Start Num: 2

Candidate Starts for Tarynearal_58:

(Start: 1 @39538 has 4 MA's), (Start: 2 @39517 has 22 MA's), (3, 39493), (4, 39481), (5, 39466), (7, 39448),

Gene: Tiger_61 Start: 39798, Stop: 39715, Start Num: 2

Candidate Starts for Tiger_61:

(Start: 1 @39819 has 4 MA's), (Start: 2 @39798 has 22 MA's), (3, 39774), (4, 39762), (5, 39747), (6, 39738), (7, 39729),

Gene: UnionJack_62 Start: 39784, Stop: 39701, Start Num: 2

Candidate Starts for UnionJack_62:

(Start: 1 @39805 has 4 MA's), (Start: 2 @39784 has 22 MA's), (3, 39760), (4, 39748), (5, 39733), (6, 39724), (7, 39715),