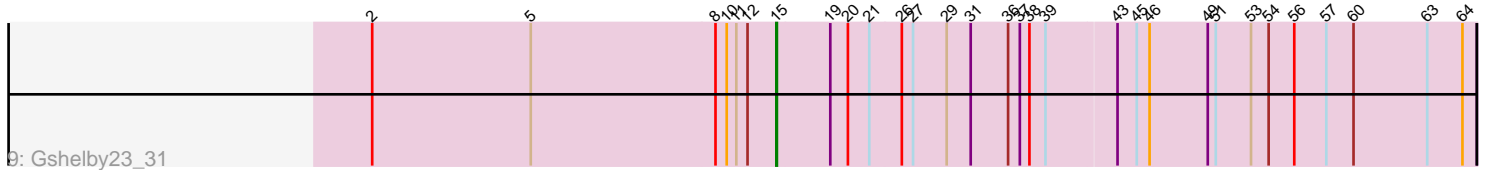
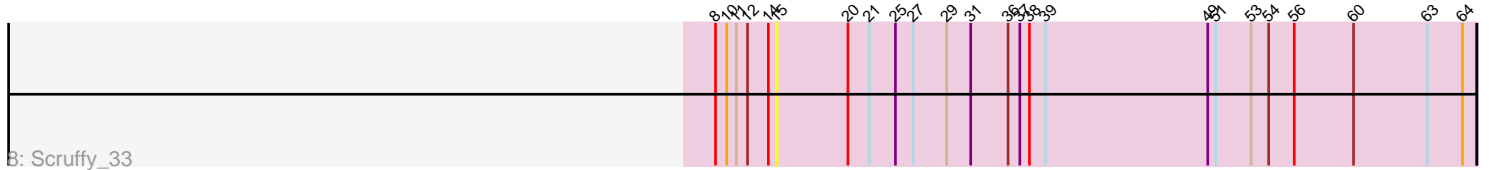
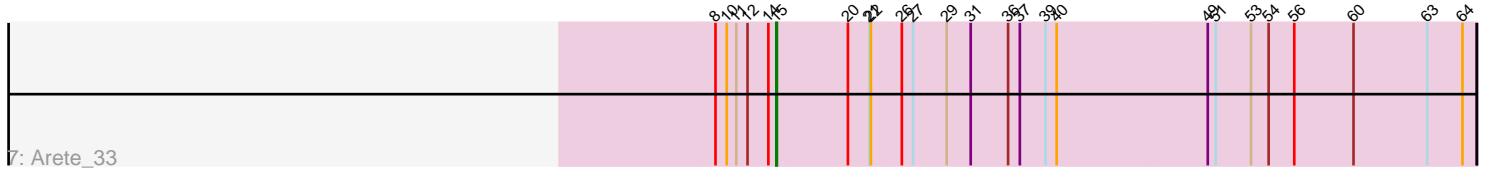
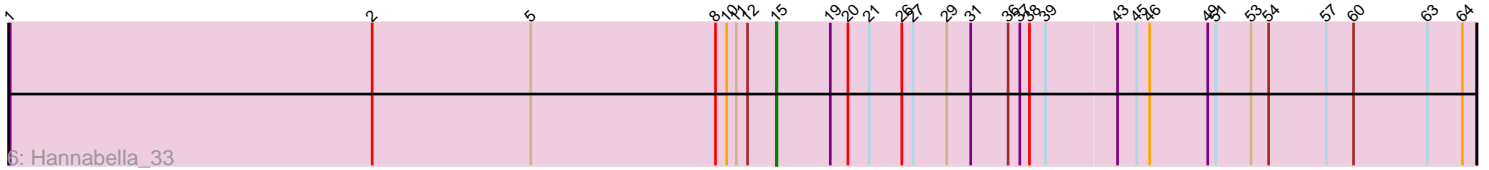
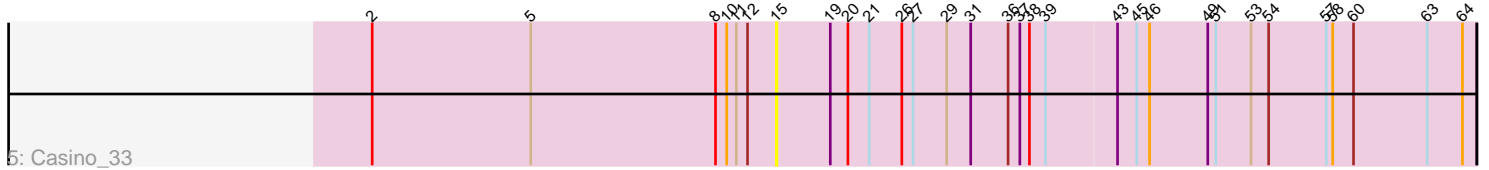
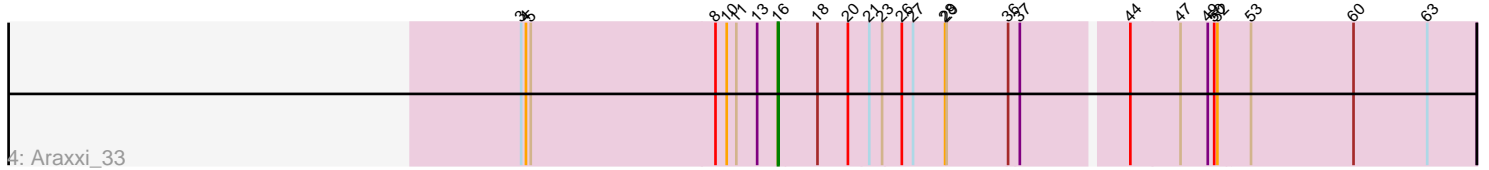
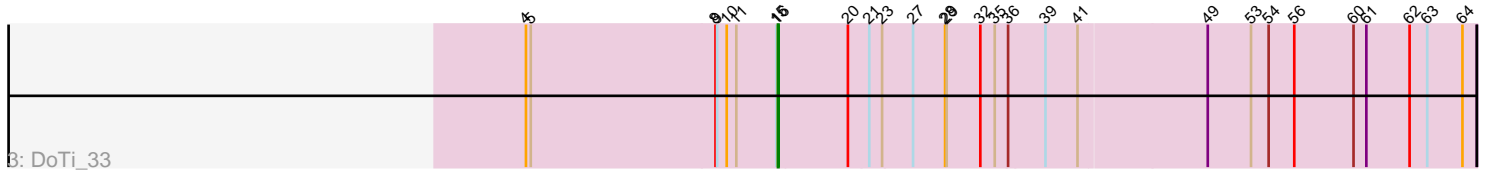
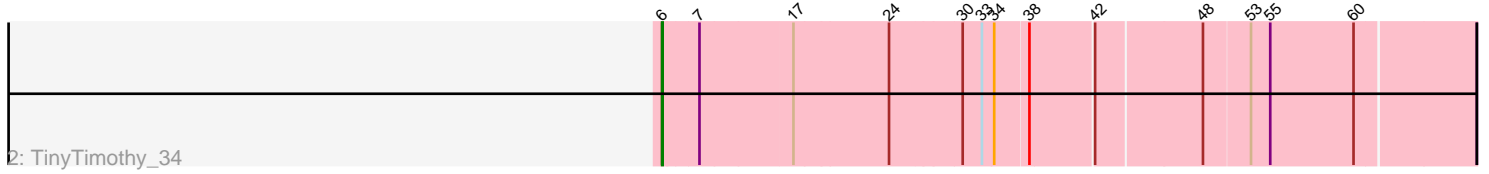
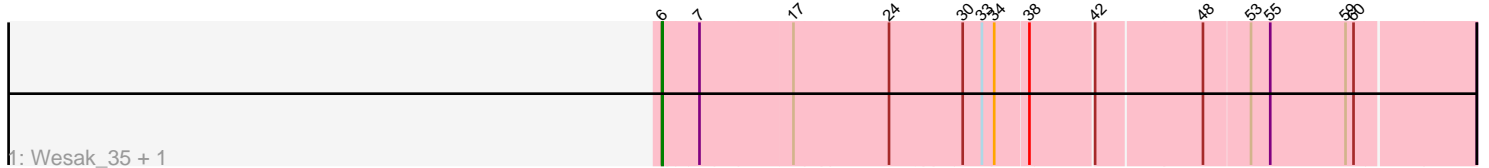


Pham 87532



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 87532 Report

This analysis was run 04/05/24 on database version 557.

Pham number 87532 has 10 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Wesak_35, YellowPanda_37
- Track 2 : TinyTimothy_34
- Track 3 : DoTi_33
- Track 4 : Araxxi_33
- Track 5 : Casino_33
- Track 6 : Hannabella_33
- Track 7 : Arete_33
- Track 8 : Scruffy_33
- Track 9 : Gshelby23_31

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

The start number called the most often in the published annotations is 6, it was called in 3 of the 8 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- TinyTimothy_34, Wesak_35, YellowPanda_37,

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

-

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

- Araxxi_33, Arete_33, Casino_33, DoTi_33, Gshelby23_31, Hannabella_33, Scruffy_33,

Summary by start number:

Start 6:

- Found in 3 of 10 (30.0%) of genes in pham
- Manual Annotations of this start: 3 of 8
- Called 100.0% of time when present
- Phage (with cluster) where this start called: TinyTimothy_34 (EK1), Wesak_35 (EK1), YellowPanda_37 (EK1),

Start 15:

- Found in 6 of 10 (60.0%) of genes in pham
- Manual Annotations of this start: 3 of 8
- Called 83.3% of time when present
- Phage (with cluster) where this start called: Arete_33 (EM1), Casino_33 (EM1), Gshelby23_31 (EM1), Hannabella_33 (EM1), Scruffy_33 (EM1),

Start 16:

- Found in 2 of 10 (20.0%) of genes in pham
- Manual Annotations of this start: 2 of 8
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Araxxi_33 (EM1), DoTi_33 (EM1),

Summary by clusters:

There are 2 clusters represented in this pham: EM1, EK1,

Info for manual annotations of cluster EK1:

- Start number 6 was manually annotated 3 times for cluster EK1.

Info for manual annotations of cluster EM1:

- Start number 15 was manually annotated 3 times for cluster EM1.
- Start number 16 was manually annotated 2 times for cluster EM1.

Gene Information:

Gene: Araxxi_33 Start: 40025, Stop: 41299, Start Num: 16

Candidate Starts for Araxxi_33:

(3, 39545), (4, 39554), (5, 39563), (8, 39908), (10, 39929), (11, 39947), (13, 39986), (Start: 16 @40025 has 2 MA's), (18, 40097), (20, 40154), (21, 40193), (23, 40217), (26, 40253), (27, 40274), (28, 40334), (29, 40337), (36, 40451), (37, 40472), (44, 40658), (47, 40751), (49, 40802), (50, 40814), (52, 40820), (53, 40877), (60, 41069), (63, 41207),

Gene: Arete_33 Start: 39756, Stop: 41057, Start Num: 15

Candidate Starts for Arete_33:

(8, 39642), (10, 39663), (11, 39681), (12, 39702), (14, 39741), (Start: 15 @39756 has 3 MA's), (20, 39885), (21, 39924), (22, 39927), (26, 39984), (27, 40005), (29, 40068), (31, 40113), (36, 40182), (37, 40203), (39, 40251), (40, 40272), (49, 40554), (51, 40569), (53, 40635), (54, 40668), (56, 40716), (60, 40827), (63, 40965), (64, 41031),

Gene: Casino_33 Start: 39737, Stop: 41029, Start Num: 15

Candidate Starts for Casino_33:

(2, 38981), (5, 39278), (8, 39623), (10, 39644), (11, 39662), (12, 39683), (Start: 15 @39737 has 3 MA's), (19, 39833), (20, 39866), (21, 39905), (26, 39965), (27, 39986), (29, 40049), (31, 40094), (36, 40163), (37, 40184), (38, 40202), (39, 40232), (43, 40358), (45, 40394), (46, 40418), (49, 40526), (51, 40541), (53, 40607), (54, 40640), (57, 40748), (58, 40760), (60, 40799), (63, 40937), (64, 41003),

Gene: DoTi_33 Start: 40110, Stop: 41402, Start Num: 16

Candidate Starts for DoTi_33:

(4, 39639), (5, 39648), (8, 39993), (9, 39996), (10, 40014), (11, 40032), (Start: 15 @40107 has 3 MA's), (Start: 16 @40110 has 2 MA's), (20, 40239), (21, 40278), (23, 40302), (27, 40359), (28, 40419),

(29, 40422), (32, 40485), (35, 40512), (36, 40536), (39, 40605), (41, 40665), (49, 40899), (53, 40980), (54, 41013), (56, 41061), (60, 41172), (61, 41196), (62, 41277), (63, 41310), (64, 41376),

Gene: Gshelby23_31 Start: 39672, Stop: 40964, Start Num: 15

Candidate Starts for Gshelby23_31:

(2, 38916), (5, 39213), (8, 39558), (10, 39579), (11, 39597), (12, 39618), (Start: 15 @39672 has 3 MA's), (19, 39768), (20, 39801), (21, 39840), (26, 39900), (27, 39921), (29, 39984), (31, 40029), (36, 40098), (37, 40119), (38, 40137), (39, 40167), (43, 40293), (45, 40329), (46, 40353), (49, 40461), (51, 40476), (53, 40542), (54, 40575), (56, 40623), (57, 40683), (60, 40734), (63, 40872), (64, 40938),

Gene: Hannabella_33 Start: 39713, Stop: 41005, Start Num: 15

Candidate Starts for Hannabella_33:

(1, 38279), (2, 38957), (5, 39254), (8, 39599), (10, 39620), (11, 39638), (12, 39659), (Start: 15 @39713 has 3 MA's), (19, 39809), (20, 39842), (21, 39881), (26, 39941), (27, 39962), (29, 40025), (31, 40070), (36, 40139), (37, 40160), (38, 40178), (39, 40208), (43, 40334), (45, 40370), (46, 40394), (49, 40502), (51, 40517), (53, 40583), (54, 40616), (57, 40724), (60, 40775), (63, 40913), (64, 40979),

Gene: Scruffy_33 Start: 39989, Stop: 41290, Start Num: 15

Candidate Starts for Scruffy_33:

(8, 39875), (10, 39896), (11, 39914), (12, 39935), (14, 39974), (Start: 15 @39989 has 3 MA's), (20, 40118), (21, 40157), (25, 40205), (27, 40238), (29, 40301), (31, 40346), (36, 40415), (37, 40436), (38, 40454), (39, 40484), (49, 40787), (51, 40802), (53, 40868), (54, 40901), (56, 40949), (60, 41060), (63, 41198), (64, 41264),

Gene: TinyTimothy_34 Start: 37295, Stop: 38740, Start Num: 6

Candidate Starts for TinyTimothy_34:

(Start: 6 @37295 has 3 MA's), (7, 37358), (17, 37526), (24, 37700), (30, 37829), (33, 37865), (34, 37886), (38, 37946), (42, 38057), (48, 38249), (53, 38333), (55, 38369), (60, 38525),

Gene: Wesak_35 Start: 37137, Stop: 38582, Start Num: 6

Candidate Starts for Wesak_35:

(Start: 6 @37137 has 3 MA's), (7, 37200), (17, 37368), (24, 37542), (30, 37671), (33, 37707), (34, 37728), (38, 37788), (42, 37899), (48, 38091), (53, 38175), (55, 38211), (59, 38352), (60, 38367),

Gene: YellowPanda_37 Start: 37018, Stop: 38463, Start Num: 6

Candidate Starts for YellowPanda_37:

(Start: 6 @37018 has 3 MA's), (7, 37081), (17, 37249), (24, 37423), (30, 37552), (33, 37588), (34, 37609), (38, 37669), (42, 37780), (48, 37972), (53, 38056), (55, 38092), (59, 38233), (60, 38248),