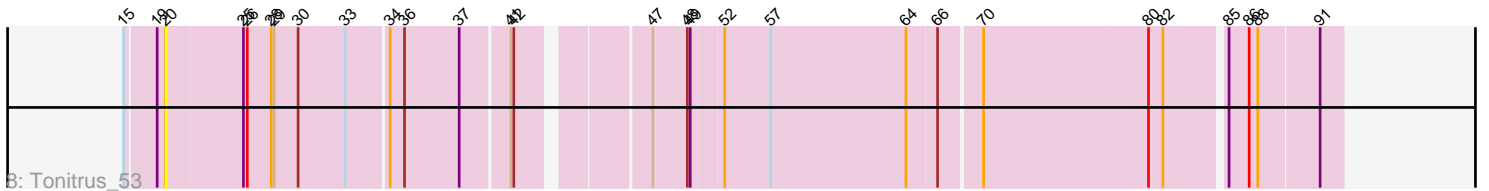
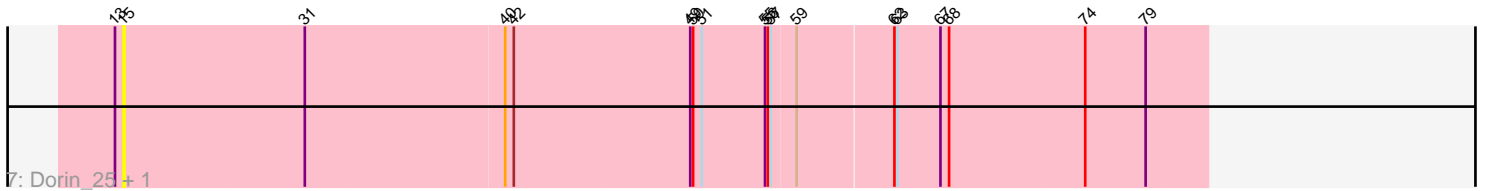
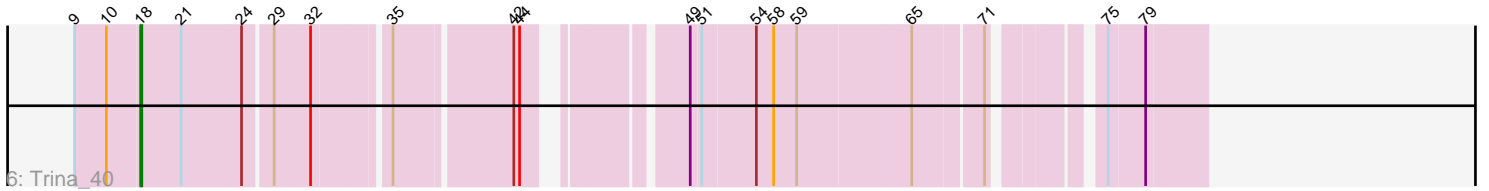
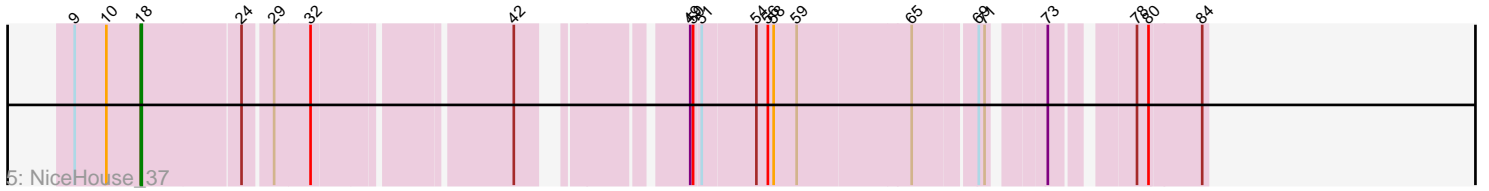
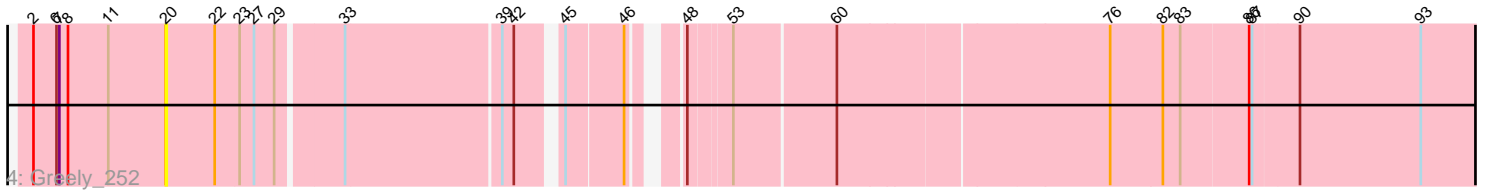
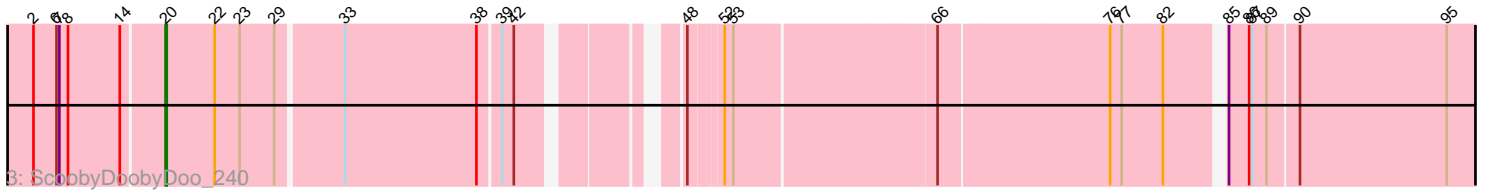
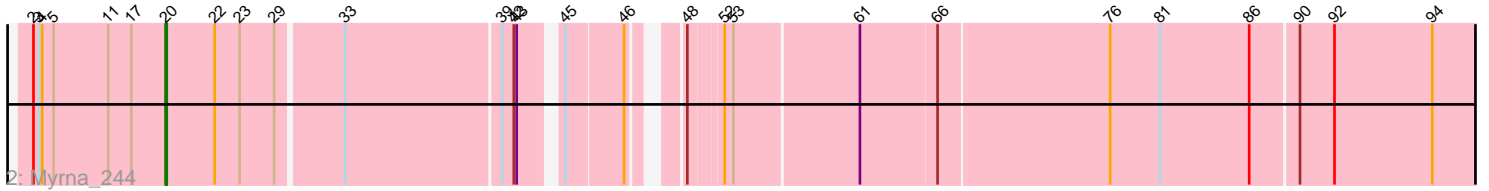
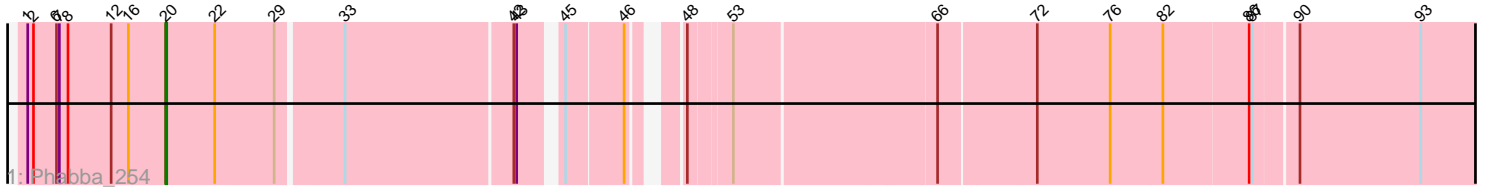


# Pham 163119



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 163119 Report

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

Pham number 163119 has 9 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Phabba\_254
- Track 2 : Myrna\_244
- Track 3 : ScoobyDoobyDoo\_240
- Track 4 : Greely\_252
- Track 5 : NiceHouse\_37
- Track 6 : Trina\_40
- Track 7 : Dorin\_25, Francesca\_25
- Track 8 : Tonitrus\_53

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

The start number called the most often in the published annotations is 20, it was called in 3 of the 5 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Greely\_252, Myrna\_244, Phabba\_254, ScoobyDoobyDoo\_240, Tonitrus\_53,

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

- 

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

- Dorin\_25, Francesca\_25, NiceHouse\_37, Trina\_40,

### **Summary by start number:**

Start 15:

- Found in 3 of 9 ( 33.3% ) of genes in pham
- No Manual Annotations of this start.
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Dorin\_25 (CG), Francesca\_25 (CG),

Start 18:

- Found in 2 of 9 ( 22.2% ) of genes in pham
- Manual Annotations of this start: 2 of 5

- Called 100.0% of time when present
- Phage (with cluster) where this start called: NiceHouse\_37 (CE), Trina\_40 (CE),

Start 20:

- Found in 5 of 9 ( 55.6% ) of genes in pham
- Manual Annotations of this start: 3 of 5
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Greely\_252 (C2), Myrna\_244 (C2), Phabba\_254 (C2), ScoobyDoobyDoo\_240 (C2), Tonitrus\_53 (singleton),

### **Summary by clusters:**

There are 4 clusters represented in this pham: C2, singleton, CG, CE,

Info for manual annotations of cluster C2:

- Start number 20 was manually annotated 3 times for cluster C2.

Info for manual annotations of cluster CE:

- Start number 18 was manually annotated 2 times for cluster CE.

### **Gene Information:**

Gene: Dorin\_25 Start: 10932, Stop: 9823, Start Num: 15

Candidate Starts for Dorin\_25:

(13, 10941), (15, 10932), (31, 10746), (40, 10542), (42, 10533), (49, 10350), (50, 10347), (51, 10338), (55, 10272), (56, 10269), (57, 10266), (59, 10242), (62, 10146), (63, 10143), (67, 10098), (68, 10089), (74, 9948), (79, 9885),

Gene: Francesca\_25 Start: 11054, Stop: 9945, Start Num: 15

Candidate Starts for Francesca\_25:

(13, 11063), (15, 11054), (31, 10868), (40, 10664), (42, 10655), (49, 10472), (50, 10469), (51, 10460), (55, 10394), (56, 10391), (57, 10388), (59, 10364), (62, 10268), (63, 10265), (67, 10220), (68, 10211), (74, 10070), (79, 10007),

Gene: Greely\_252 Start: 146842, Stop: 148137, Start Num: 20

Candidate Starts for Greely\_252:

(2, 146704), (6, 146728), (7, 146731), (8, 146740), (11, 146782), (Start: 20 @146842 has 3 MA's), (22, 146893), (23, 146917), (27, 146932), (29, 146953), (33, 147016), (39, 147172), (42, 147184), (45, 147220), (46, 147277), (48, 147310), (53, 147349), (60, 147451), (76, 147721), (82, 147775), (83, 147793), (86, 147862), (87, 147865), (90, 147910), (93, 148036),

Gene: Myrna\_244 Start: 146826, Stop: 148115, Start Num: 20

Candidate Starts for Myrna\_244:

(2, 146688), (3, 146694), (4, 146697), (5, 146709), (11, 146766), (17, 146790), (Start: 20 @146826 has 3 MA's), (22, 146877), (23, 146901), (29, 146937), (33, 147000), (39, 147156), (42, 147168), (43, 147171), (45, 147204), (46, 147261), (48, 147294), (52, 147324), (53, 147333), (61, 147459), (66, 147534), (76, 147705), (81, 147756), (86, 147849), (90, 147894), (92, 147930), (94, 148032),

Gene: NiceHouse\_37 Start: 15636, Stop: 14689, Start Num: 18

Candidate Starts for NiceHouse\_37:

(9, 15705), (10, 15672), (Start: 18 @15636 has 2 MA's), (24, 15537), (29, 15510), (32, 15474), (42, 15291), (49, 15156), (50, 15153), (51, 15147), (54, 15093), (56, 15081), (58, 15075), (59, 15051), (65, 14937), (69, 14877), (71, 14871), (73, 14826), (78, 14757), (80, 14745), (84, 14694),

Gene: Phabba\_254 Start: 146209, Stop: 147498, Start Num: 20

Candidate Starts for Phabba\_254:

(1, 146065), (2, 146071), (6, 146095), (7, 146098), (8, 146107), (12, 146152), (16, 146170), (Start: 20 @146209 has 3 MA's), (22, 146260), (29, 146320), (33, 146383), (42, 146551), (43, 146554), (45, 146587), (46, 146644), (48, 146677), (53, 146716), (66, 146917), (72, 147013), (76, 147088), (82, 147142), (86, 147229), (87, 147232), (90, 147271), (93, 147397),

Gene: ScoobyDoobyDoo\_240 Start: 143216, Stop: 144490, Start Num: 20

Candidate Starts for ScoobyDoobyDoo\_240:

(2, 143084), (6, 143108), (7, 143111), (8, 143120), (14, 143174), (Start: 20 @143216 has 3 MA's), (22, 143267), (23, 143291), (29, 143327), (33, 143390), (38, 143525), (39, 143546), (42, 143558), (48, 143684), (52, 143714), (53, 143723), (66, 143924), (76, 144095), (77, 144107), (82, 144149), (85, 144200), (86, 144221), (87, 144224), (89, 144239), (90, 144269), (95, 144422),

Gene: Tonitrus\_53 Start: 39964, Stop: 41100, Start Num: 20

Candidate Starts for Tonitrus\_53:

(15, 39925), (19, 39955), (Start: 20 @39964 has 3 MA's), (25, 40042), (26, 40045), (28, 40069), (29, 40072), (30, 40096), (33, 40144), (34, 40183), (36, 40198), (37, 40255), (41, 40303), (42, 40306), (47, 40423), (48, 40459), (49, 40462), (52, 40492), (57, 40540), (64, 40678), (66, 40708), (70, 40747), (80, 40918), (82, 40933), (85, 40987), (86, 41008), (88, 41017), (91, 41077),

Gene: Trina\_40 Start: 14776, Stop: 13826, Start Num: 18

Candidate Starts for Trina\_40:

(9, 14842), (10, 14809), (Start: 18 @14776 has 2 MA's), (21, 14734), (24, 14674), (29, 14647), (32, 14611), (35, 14542), (42, 14428), (44, 14422), (49, 14293), (51, 14284), (54, 14230), (58, 14212), (59, 14188), (65, 14074), (71, 14008), (75, 13921), (79, 13885),