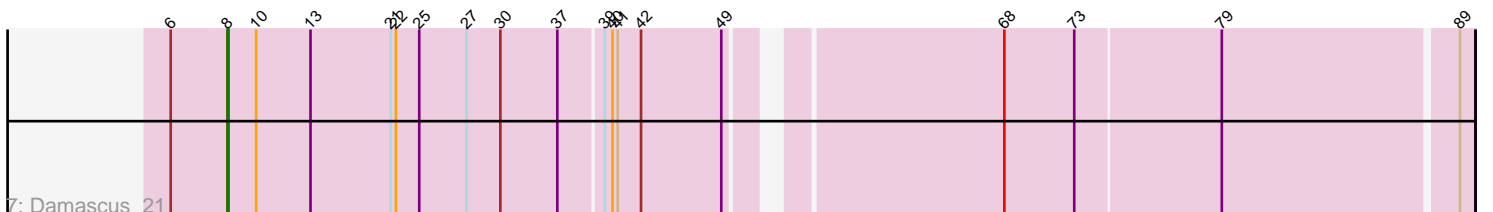
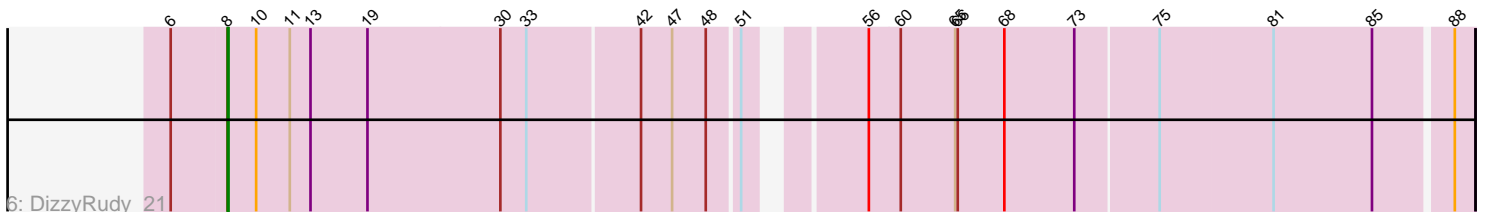
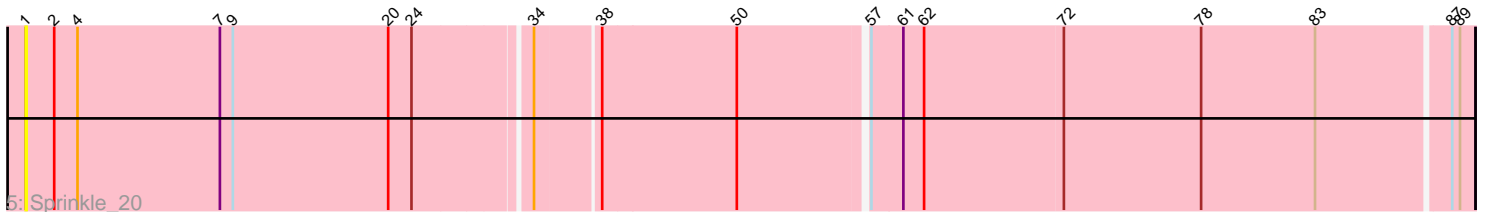
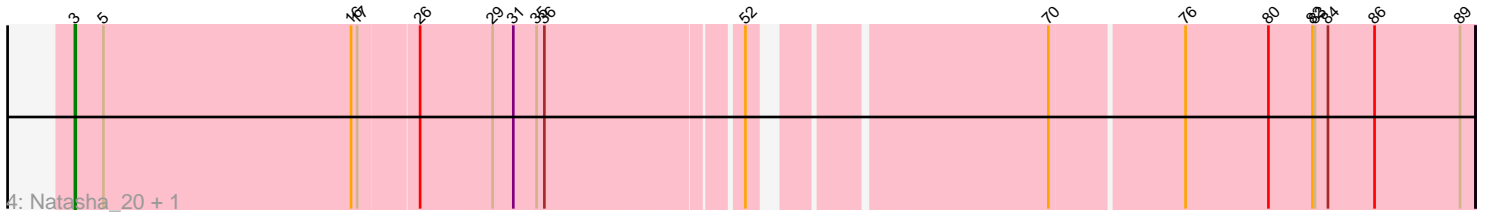
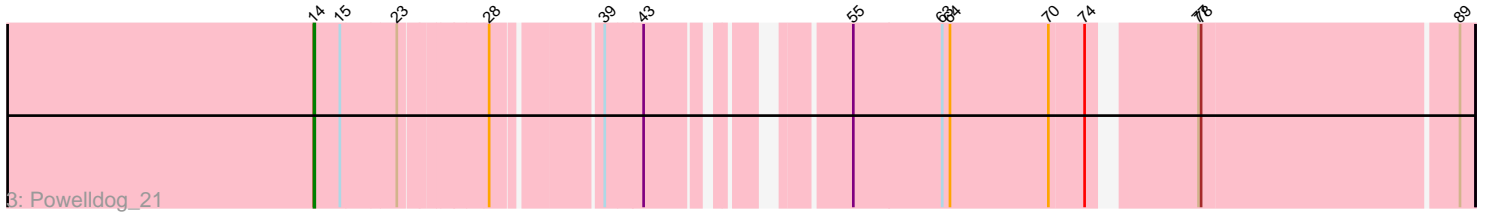
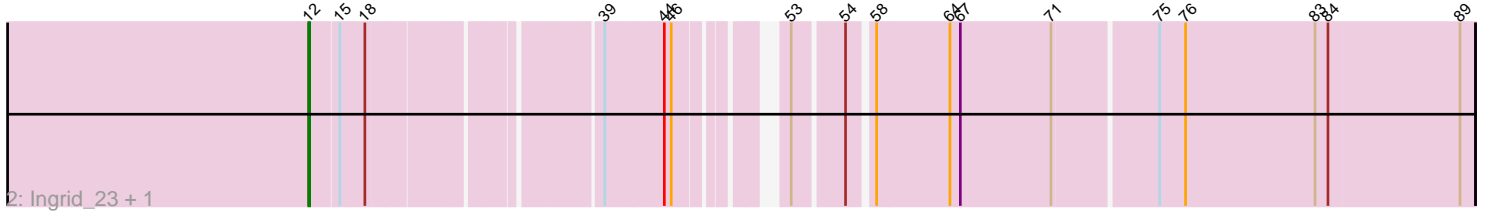
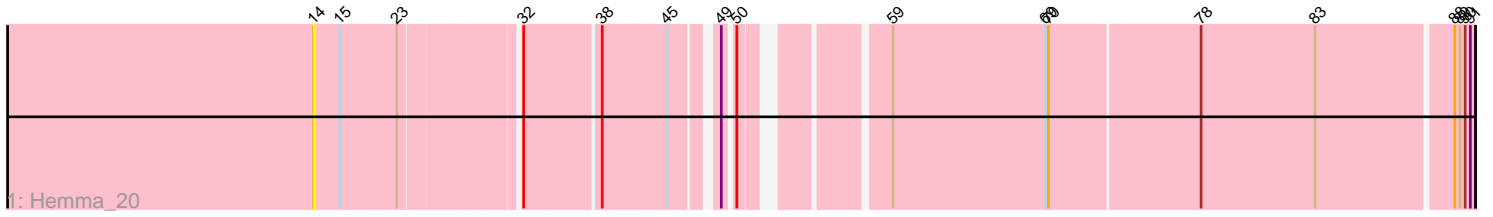


# Pham 297238



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 297238 Report

This analysis was run 04/25/26 on database version 644.

Pham number 297238 has 9 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Hemma\_20
- Track 2 : Ingrid\_23, Loretta\_23
- Track 3 : Powellldog\_21
- Track 4 : Natasha\_20, RustyBoy\_20
- Track 5 : Sprinkle\_20
- Track 6 : DizzyRudy\_21
- Track 7 : Damascus\_21

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

The start number called the most often in the published annotations is 12, it was called in 2 of the 7 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Ingrid\_23, Loretta\_23,

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

- 

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

- Damascus\_21, DizzyRudy\_21, Hemma\_20, Natasha\_20, Powellldog\_21, RustyBoy\_20, Sprinkle\_20,

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

Start 1:

- Found in 1 of 9 ( 11.1% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Sprinkle\_20 (AW),

Start 3:

- Found in 2 of 9 ( 22.2% ) of genes in pham
- Manual Annotations of this start: 2 of 7

- Called 100.0% of time when present
- Phage (with cluster) where this start called: Natasha\_20 (AW), RustyBoy\_20 (AW),

Start 8:

- Found in 2 of 9 ( 22.2% ) of genes in pham
- Manual Annotations of this start: 2 of 7
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Damascus\_21 (EL), DizzyRudy\_21 (EL),

Start 12:

- Found in 2 of 9 ( 22.2% ) of genes in pham
- Manual Annotations of this start: 2 of 7
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ingrid\_23 (AU3), Loretta\_23 (AU3),

Start 14:

- Found in 2 of 9 ( 22.2% ) of genes in pham
- Manual Annotations of this start: 1 of 7
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Hemma\_20 (AU1), PowellDog\_21 (AW),

### **Summary by clusters:**

There are 4 clusters represented in this pham: AU1, EL, AU3, AW,

Info for manual annotations of cluster AU3:

- Start number 12 was manually annotated 2 times for cluster AU3.

Info for manual annotations of cluster AW:

- Start number 3 was manually annotated 2 times for cluster AW.
- Start number 14 was manually annotated 1 time for cluster AW.

Info for manual annotations of cluster EL:

- Start number 8 was manually annotated 2 times for cluster EL.

### **Gene Information:**

Gene: Damascus\_21 Start: 14882, Stop: 16249, Start Num: 8

Candidate Starts for Damascus\_21:

(6, 14819), (Start: 8 @14882 has 2 MA's), (10, 14915), (13, 14978), (21, 15071), (22, 15077), (25, 15104), (27, 15158), (30, 15197), (37, 15263), (39, 15311), (40, 15320), (41, 15326), (42, 15353), (49, 15446), (68, 15725), (73, 15806), (79, 15968), (89, 16232),

Gene: DizzyRudy\_21 Start: 14811, Stop: 16178, Start Num: 8

Candidate Starts for DizzyRudy\_21:

(6, 14748), (Start: 8 @14811 has 2 MA's), (10, 14844), (11, 14883), (13, 14907), (19, 14973), (30, 15126), (33, 15156), (42, 15282), (47, 15318), (48, 15357), (51, 15390), (56, 15498), (60, 15534), (65, 15597), (66, 15600), (68, 15654), (73, 15735), (75, 15828), (81, 15957), (85, 16071), (88, 16155),

Gene: Hemma\_20 Start: 14694, Stop: 15887, Start Num: 14

Candidate Starts for Hemma\_20:

(Start: 14 @14694 has 1 MA's), (15, 14724), (23, 14784), (32, 14901), (38, 14982), (45, 15054), (49, 15096), (50, 15105), (59, 15234), (69, 15411), (70, 15414), (78, 15582), (83, 15714), (88, 15864), (89, 15870), (90, 15876), (91, 15882),

Gene: Ingrid\_23 Start: 17977, Stop: 19170, Start Num: 12

Candidate Starts for Ingrid\_23:

(Start: 12 @17977 has 2 MA's), (15, 18007), (18, 18034), (39, 18268), (44, 18331), (46, 18337), (53, 18421), (54, 18475), (58, 18499), (64, 18583), (67, 18595), (71, 18700), (75, 18811), (76, 18841), (83, 18988), (84, 19003), (89, 19153),

Gene: Loretta\_23 Start: 17977, Stop: 19170, Start Num: 12

Candidate Starts for Loretta\_23:

(Start: 12 @17977 has 2 MA's), (15, 18007), (18, 18034), (39, 18268), (44, 18331), (46, 18337), (53, 18421), (54, 18475), (58, 18499), (64, 18583), (67, 18595), (71, 18700), (75, 18811), (76, 18841), (83, 18988), (84, 19003), (89, 19153),

Gene: Natasha\_20 Start: 14433, Stop: 15947, Start Num: 3

Candidate Starts for Natasha\_20:

(Start: 3 @14433 has 2 MA's), (5, 14466), (16, 14751), (17, 14757), (26, 14823), (29, 14904), (31, 14928), (35, 14955), (36, 14964), (52, 15171), (70, 15474), (76, 15618), (80, 15711), (82, 15762), (83, 15765), (84, 15780), (86, 15831), (89, 15930),

Gene: Powelldog\_21 Start: 15125, Stop: 16306, Start Num: 14

Candidate Starts for Powelldog\_21:

(Start: 14 @15125 has 1 MA's), (15, 15155), (23, 15215), (28, 15305), (39, 15416), (43, 15458), (55, 15632), (63, 15734), (64, 15743), (70, 15857), (74, 15896), (77, 15998), (78, 16001), (89, 16289),

Gene: RustyBoy\_20 Start: 14433, Stop: 15947, Start Num: 3

Candidate Starts for RustyBoy\_20:

(Start: 3 @14433 has 2 MA's), (5, 14466), (16, 14751), (17, 14757), (26, 14823), (29, 14904), (31, 14928), (35, 14955), (36, 14964), (52, 15171), (70, 15474), (76, 15618), (80, 15711), (82, 15762), (83, 15765), (84, 15780), (86, 15831), (89, 15930),

Gene: Sprinkle\_20 Start: 15057, Stop: 16673, Start Num: 1

Candidate Starts for Sprinkle\_20:

(1, 15057), (2, 15090), (4, 15117), (7, 15282), (9, 15297), (20, 15477), (24, 15504), (34, 15627), (38, 15696), (50, 15849), (57, 15990), (61, 16026), (62, 16050), (72, 16209), (78, 16368), (83, 16500), (87, 16647), (89, 16656),