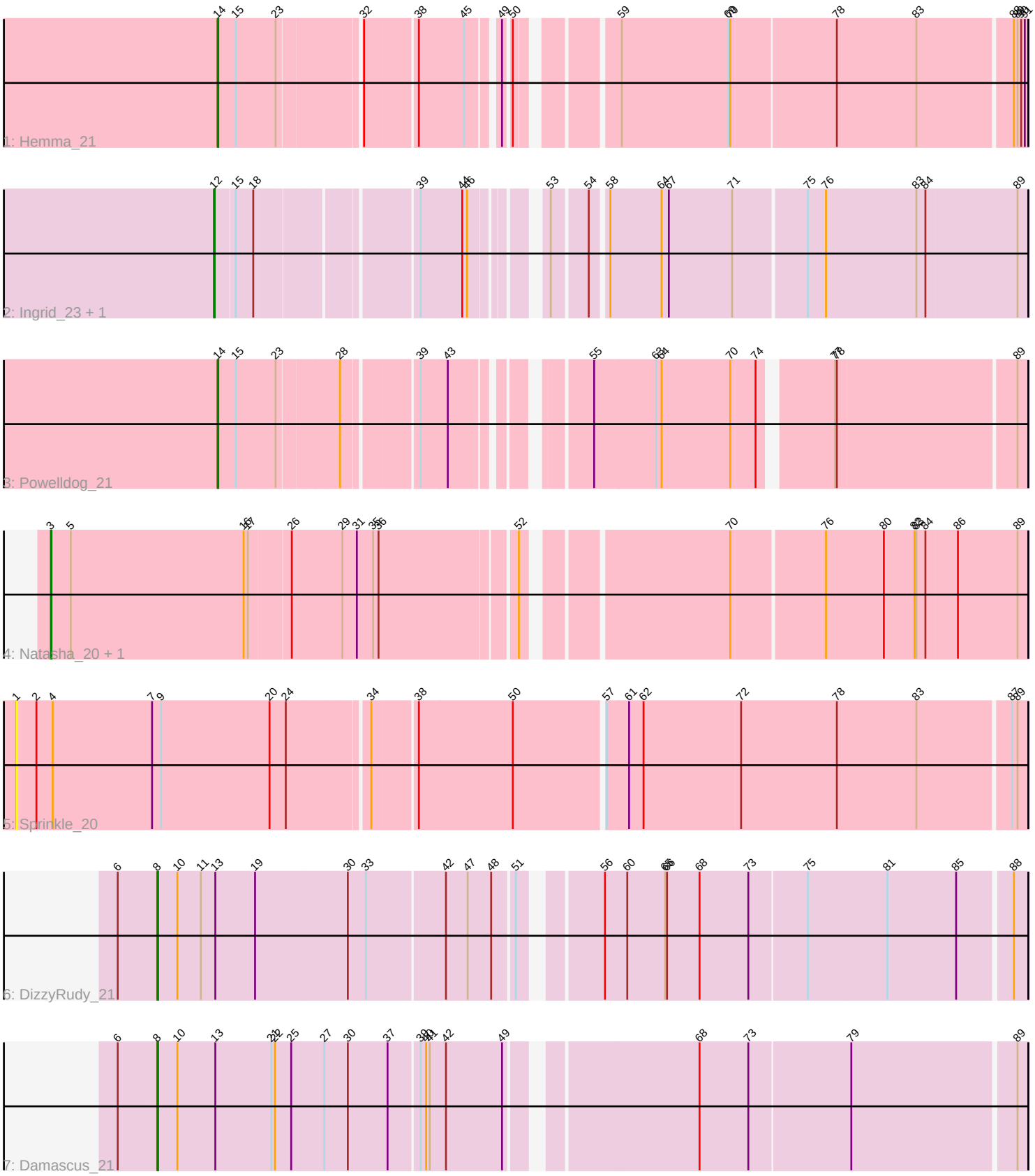
Pham 346446


1: Hemma_21
2: Ingrid_23 + 1
3: Powelldog_21
4: Natasha_20 + 1
5: Sprinkle_20
6: DizzyRudy_21
7: Damascus_21

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 346446 Report

This analysis was run 11/14/26 on database version 672.

Pham number 346446 has 9 members, 1 are drafts.

Phages represented in each track:
• Track 1 : Hemma_21
• Track 2 : Ingrid_23, Loretta_23
• Track 3 : Powelldog_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 14, it was called in 2 of the 8 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Hemma_21, Powelldog_21,

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, Ingrid_23, Loretta_23, Natasha_20, 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 8

• 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 8
• 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 8
• 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: 2 of 8
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Hemma_21 (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 AU1:
•Start number 14 was manually annotated 1 time for cluster AU1.

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_21 Start: 14694, Stop: 15887, Start Num: 14
Candidate Starts for Hemma_21:
(Start: 14 @14694 has 2 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 2 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),