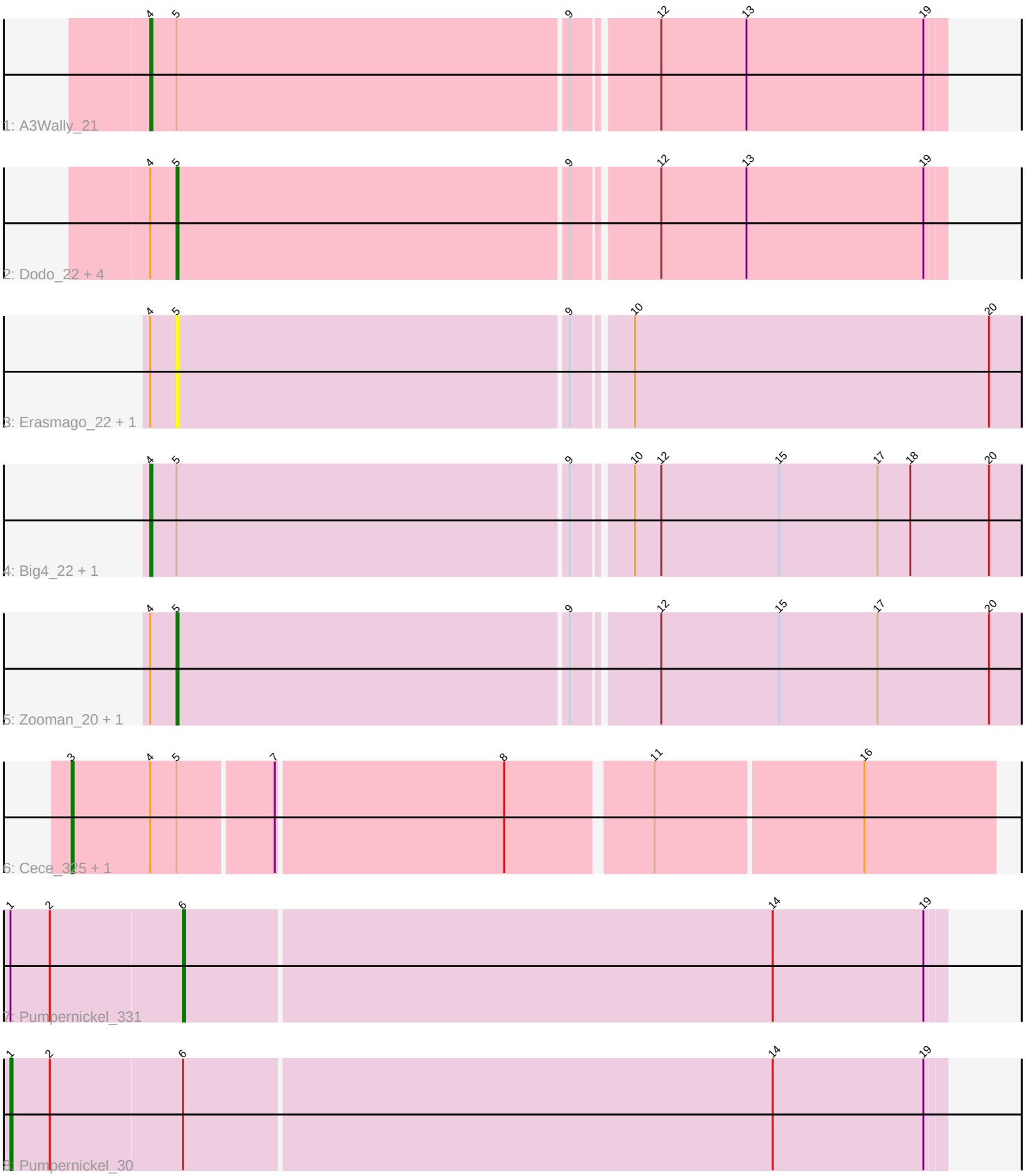
Pham 309457


4
5
9
12
13
19
1: A3Wally_21
4
5
9
12
13
19
2: Dodo_22 + 4
4
5
9
10
20
3: Erasmago_22 + 1
4
5
9
10
12
15
17
18
20
4: Big4_22 + 1
4
5
9
12
15
17
20
5: Zooman_20 + 1
3
4
5
7
8
11
16
6: Cece_325 + 1
1
2
6
14
19
7: Pumpernickel_331
1
2
6
14
19
8: Pumpernickel_30

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 309457 Report

This analysis was run 09/05/26 on database version 662.

Pham number 309457 has 16 members, 2 are drafts.

Phages represented in each track:
• Track 1 : A3Wally_21
• Track 2 : Dodo_22, Dodo_368, A3Wally_374, PauloDiaboli_376, PauloDiaboli_21
• Track 3 : Erasmago_22, Erasmago_360
• Track 4 : Big4_22, Big4_348
• Track 5 : Zooman_20, Zooman_333
• Track 6 : Cece_325, Cece_23
• Track 7 : Pumpernickel_331
• Track 8 : Pumpernickel_30

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

The start number called the most often in the published annotations is 5, it was called in 7 of the 14 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• A3Wally_374, Dodo_22, Dodo_368, Erasmago_22, Erasmago_360, PauloDiaboli_21, PauloDiaboli_376, Zooman_20, Zooman_333,

Genes that have the "Most Annotated" start but do not call it:
• A3Wally_21, Big4_22, Big4_348, Cece_23, Cece_325,

Genes that do not have the "Most Annotated" start:
• Pumpernickel_30, Pumpernickel_331,

Summary by start number:

Start 1:
• Found in 2 of 16 (12.5%) of genes in pham
• Manual Annotations of this start: 1 of 14
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Pumpernickel_30 (GD4),

Start 3:
• Found in 2 of 16 (12.5%) of genes in pham

• Manual Annotations of this start: 2 of 14
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Cece_23 (GD3), Cece_325 (GD3),

Start 4:
• Found in 14 of 16 (87.5%) of genes in pham
• Manual Annotations of this start: 3 of 14
• Called 21.4% of time when present
• Phage (with cluster) where this start called: A3Wally_21 (GD1), Big4_22 (GD2), Big4_348 (GD2),

Start 5:
• Found in 14 of 16 (87.5%) of genes in pham
• Manual Annotations of this start: 7 of 14
• Called 64.3% of time when present
• Phage (with cluster) where this start called: A3Wally_374 (GD1), Dodo_22 (GD1), Dodo_368 (GD1), Erasmago_22 (GD2), Erasmago_360 (GD2), PauloDiaboli_21 (GD1), PauloDiaboli_376 (GD1), Zooman_20 (GD2), Zooman_333 (GD2),

Start 6:
• Found in 2 of 16 (12.5%) of genes in pham
• Manual Annotations of this start: 1 of 14
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Pumpernickel_331 (GD4),

Summary by clusters:

There are 4 clusters represented in this pham: GD1, GD2, GD3, GD4,

Info for manual annotations of cluster GD1:
•Start number 4 was manually annotated 1 time for cluster GD1.
•Start number 5 was manually annotated 5 times for cluster GD1.

Info for manual annotations of cluster GD2:
•Start number 4 was manually annotated 2 times for cluster GD2.
•Start number 5 was manually annotated 2 times for cluster GD2.

Info for manual annotations of cluster GD3:
•Start number 3 was manually annotated 2 times for cluster GD3.

Info for manual annotations of cluster GD4:
•Start number 1 was manually annotated 1 time for cluster GD4.
•Start number 6 was manually annotated 1 time for cluster GD4.

Gene Information:

Gene: A3Wally_21 Start: 7611, Stop: 7964, Start Num: 4
Candidate Starts for A3Wally_21:
(Start: 4 @7611 has 3 MA's), (Start: 5 @7623 has 7 MA's), (9, 7800), (12, 7836), (13, 7875), (19, 7956),

Gene: A3Wally_374 Start: 186844, Stop: 187185, Start Num: 5
Candidate Starts for A3Wally_374:
(Start: 4 @186832 has 3 MA's), (Start: 5 @186844 has 7 MA's), (9, 187021), (12, 187057), (13, 187096), (19, 187177),

Gene: Big4_22 Start: 9868, Stop: 10257, Start Num: 4
Candidate Starts for Big4_22:
(Start: 4 @9868 has 3 MA's), (Start: 5 @9880 has 7 MA's), (9, 10057), (10, 10081), (12, 10093), (15, 10147), (17, 10192), (18, 10207), (20, 10243),

Gene: Big4_348 Start: 184562, Stop: 184951, Start Num: 4
Candidate Starts for Big4_348:
(Start: 4 @184562 has 3 MA's), (Start: 5 @184574 has 7 MA's), (9, 184751), (10, 184775), (12, 184787), (15, 184841), (17, 184886), (18, 184901), (20, 184937),

Gene: Cece_325 Start: 177112, Stop: 177519, Start Num: 3
Candidate Starts for Cece_325:
(Start: 3 @177112 has 2 MA's), (Start: 4 @177148 has 3 MA's), (Start: 5 @177160 has 7 MA's), (7, 177202), (8, 177304), (11, 177367), (16, 177460),

Gene: Cece_23 Start: 8678, Stop: 9085, Start Num: 3
Candidate Starts for Cece_23:
(Start: 3 @8678 has 2 MA's), (Start: 4 @8714 has 3 MA's), (Start: 5 @8726 has 7 MA's), (7, 8768), (8, 8870), (11, 8933), (16, 9026),

Gene: Dodo_22 Start: 7471, Stop: 7812, Start Num: 5
Candidate Starts for Dodo_22:
(Start: 4 @7459 has 3 MA's), (Start: 5 @7471 has 7 MA's), (9, 7648), (12, 7684), (13, 7723), (19, 7804),

Gene: Dodo_368 Start: 185671, Stop: 186012, Start Num: 5
Candidate Starts for Dodo_368:
(Start: 4 @185659 has 3 MA's), (Start: 5 @185671 has 7 MA's), (9, 185848), (12, 185884), (13, 185923), (19, 186004),

Gene: Erasmago_22 Start: 8251, Stop: 8628, Start Num: 5
Candidate Starts for Erasmago_22:
(Start: 4 @8239 has 3 MA's), (Start: 5 @8251 has 7 MA's), (9, 8428), (10, 8452), (20, 8614),

Gene: Erasmago_360 Start: 182760, Stop: 183137, Start Num: 5
Candidate Starts for Erasmago_360:
(Start: 4 @182748 has 3 MA's), (Start: 5 @182760 has 7 MA's), (9, 182937), (10, 182961), (20, 183123),

Gene: PauloDiaboli_376 Start: 184093, Stop: 184434, Start Num: 5
Candidate Starts for PauloDiaboli_376:
(Start: 4 @184081 has 3 MA's), (Start: 5 @184093 has 7 MA's), (9, 184270), (12, 184306), (13, 184345), (19, 184426),

Gene: PauloDiaboli_21 Start: 7464, Stop: 7805, Start Num: 5
Candidate Starts for PauloDiaboli_21:
(Start: 4 @7452 has 3 MA's), (Start: 5 @7464 has 7 MA's), (9, 7641), (12, 7677), (13, 7716), (19, 7797),

Gene: Pumpernickel_331 Start: 178239, Stop: 178583, Start Num: 6
Candidate Starts for Pumpernickel_331:
(Start: 1 @178161 has 1 MA's), (2, 178179), (Start: 6 @178239 has 1 MA's), (14, 178506), (19, 178575),

Gene: Pumpernickel_30 Start: 12029, Stop: 12451, Start Num: 1
Candidate Starts for Pumpernickel_30:
(Start: 1 @12029 has 1 MA's), (2, 12047), (Start: 6 @12107 has 1 MA's), (14, 12374), (19, 12443),

Gene: Zooman_20 Start: 9261, Stop: 9638, Start Num: 5
Candidate Starts for Zooman_20:
(Start: 4 @9249 has 3 MA's), (Start: 5 @9261 has 7 MA's), (9, 9438), (12, 9474), (15, 9528), (17, 9573), (20, 9624),

Gene: Zooman_333 Start: 184912, Stop: 185289, Start Num: 5
Candidate Starts for Zooman_333:
(Start: 4 @184900 has 3 MA's), (Start: 5 @184912 has 7 MA's), (9, 185089), (12, 185125), (15, 185179), (17, 185224), (20, 185275),