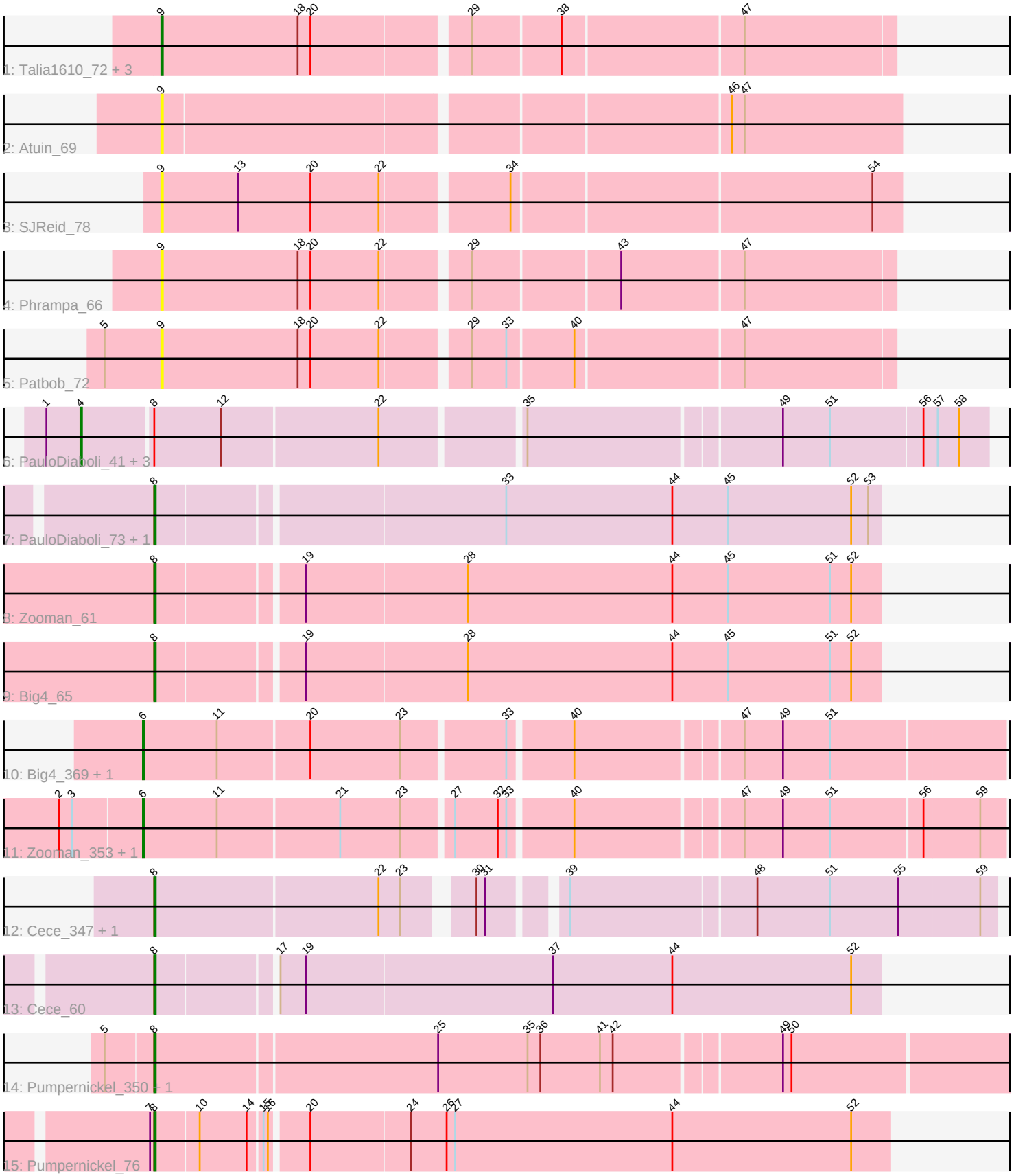
Pham 188379


1: Talia1610_72 + 3
2: Atuin_69
3: SJReid_78
4: Phrampa_66
5: Patbob_72
6: PauloDiaboli_41 + 3
7: PauloDiaboli_73 + 1
8: Zooman_61
9: Big4_65
10: Big4_369 + 1
11: Zooman_353 + 1
12: Cece_347 + 1
13: Cece_60
14: Pumpernickel_350 + 1
15: Pumpernickel_76

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 188379 Report

This analysis was run 11/02/24 on database version 579.

Pham number 188379 has 26 members, 6 are drafts.

Phages represented in each track:
• Track 1 : Talia1610_72, Mimi_79, Bloom_76, Racecar_73
• Track 2 : Atuin_69
• Track 3 : SJReid_78
• Track 4 : Phrampa_66
• Track 5 : Patbob_72
• Track 6 : PauloDiaboli_41, PauloDiaboli_396, A3Wally_41, A3Wally_394
• Track 7 : PauloDiaboli_73, A3Wally_74
• Track 8 : Zooman_61
• Track 9 : Big4_65
• Track 10 : Big4_369, Big4_43
• Track 11 : Zooman_353, Zooman_40
• Track 12 : Cece_347, Cece_45
• Track 13 : Cece_60
• Track 14 : Pumpernickel_350, Pumpernickel_49
• Track 15 : Pumpernickel_76

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

The start number called the most often in the published annotations is 8, it was called in 10 of the 20 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• A3Wally_74, Big4_65, Cece_347, Cece_45, Cece_60, PauloDiaboli_73, Pumpernickel_350, Pumpernickel_49, Pumpernickel_76, Zooman_61,

Genes that have the "Most Annotated" start but do not call it:
• A3Wally_394, A3Wally_41, PauloDiaboli_396, PauloDiaboli_41,

Genes that do not have the "Most Annotated" start:
• Atuin_69, Big4_369, Big4_43, Bloom_76, Mimi_79, Patbob_72, Phrampa_66, Racecar_73, SJReid_78, Talia1610_72, Zooman_353, Zooman_40,

Summary by start number:

Start 4:
• Found in 4 of 26 (15.4%) of genes in pham
• Manual Annotations of this start: 4 of 20
• Called 100.0% of time when present
• Phage (with cluster) where this start called: A3Wally_394 (GD1), A3Wally_41 (GD1), PauloDiaboli_396 (GD1), PauloDiaboli_41 (GD1),

Start 6:
• Found in 4 of 26 (15.4%) of genes in pham
• Manual Annotations of this start: 4 of 20
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Big4_369 (GD2), Big4_43 (GD2), Zooman_353 (GD2), Zooman_40 (GD2),

Start 8:
• Found in 14 of 26 (53.8%) of genes in pham
• Manual Annotations of this start: 10 of 20
• Called 71.4% of time when present
• Phage (with cluster) where this start called: A3Wally_74 (GD1), Big4_65 (GD2), Cece_347 (GD3), Cece_45 (GD3), Cece_60 (GD3), PauloDiaboli_73 (GD1), Pumpernickel_350 (GD4), Pumpernickel_49 (GD4), Pumpernickel_76 (GD4), Zooman_61 (GD2),

Start 9:
• Found in 8 of 26 (30.8%) of genes in pham
• Manual Annotations of this start: 2 of 20
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Atuin_69 (FC), Bloom_76 (FC), Mimi_79 (FC), Patbob_72 (FC), Phrampa_66 (FC), Racecar_73 (FC), SJReid_78 (FC), Talia1610_72 (FC),

Summary by clusters:

There are 5 clusters represented in this pham: GD3, GD1, GD2, FC, GD4,

Info for manual annotations of cluster FC:
•Start number 9 was manually annotated 2 times for cluster FC.

Info for manual annotations of cluster GD1:
•Start number 4 was manually annotated 4 times for cluster GD1.
•Start number 8 was manually annotated 2 times for cluster GD1.

Info for manual annotations of cluster GD2:
•Start number 6 was manually annotated 4 times for cluster GD2.
•Start number 8 was manually annotated 2 times for cluster GD2.

Info for manual annotations of cluster GD3:
•Start number 8 was manually annotated 3 times for cluster GD3.

Info for manual annotations of cluster GD4:
•Start number 8 was manually annotated 3 times for cluster GD4.

Gene Information:

Gene: A3Wally_41 Start: 14268, Stop: 14873, Start Num: 4
Candidate Starts for A3Wally_41:
(1, 14244), (Start: 4 @14268 has 4 MA's), (Start: 8 @14316 has 10 MA's), (12, 14361), (22, 14469), (35, 14562), (49, 14733), (51, 14766), (56, 14829), (57, 14838), (58, 14853),

Gene: A3Wally_394 Start: 193489, Stop: 194094, Start Num: 4
Candidate Starts for A3Wally_394:
(1, 193465), (Start: 4 @193489 has 4 MA's), (Start: 8 @193537 has 10 MA's), (12, 193582), (22, 193690), (35, 193783), (49, 193954), (51, 193987), (56, 194050), (57, 194059), (58, 194074),

Gene: A3Wally_74 Start: 26233, Stop: 26730, Start Num: 8
Candidate Starts for A3Wally_74:
(Start: 8 @26233 has 10 MA's), (33, 26467), (44, 26584), (45, 26623), (52, 26710), (53, 26722),

Gene: Atuin_69 Start: 29715, Stop: 30212, Start Num: 9
Candidate Starts for Atuin_69:
(Start: 9 @29715 has 2 MA's), (46, 30093), (47, 30102),

Gene: Big4_65 Start: 26317, Stop: 26814, Start Num: 8
Candidate Starts for Big4_65:
(Start: 8 @26317 has 10 MA's), (19, 26413), (28, 26524), (44, 26668), (45, 26707), (51, 26779), (52, 26794),

Gene: Big4_369 Start: 191141, Stop: 191719, Start Num: 6
Candidate Starts for Big4_369:
(Start: 6 @191141 has 4 MA's), (11, 191192), (20, 191255), (23, 191318), (33, 191387), (40, 191429), (47, 191540), (49, 191567), (51, 191600),

Gene: Big4_43 Start: 16447, Stop: 17025, Start Num: 6
Candidate Starts for Big4_43:
(Start: 6 @16447 has 4 MA's), (11, 16498), (20, 16561), (23, 16624), (33, 16693), (40, 16735), (47, 16846), (49, 16873), (51, 16906),

Gene: Bloom_76 Start: 32332, Stop: 32826, Start Num: 9
Candidate Starts for Bloom_76:
(Start: 9 @32332 has 2 MA's), (18, 32428), (20, 32437), (29, 32539), (38, 32599), (47, 32722),

Gene: Cece_347 Start: 185392, Stop: 185943, Start Num: 8
Candidate Starts for Cece_347:
(Start: 8 @185392 has 10 MA's), (22, 185545), (23, 185560), (30, 185599), (31, 185605), (39, 185650), (48, 185776), (51, 185827), (55, 185875), (59, 185932),

Gene: Cece_60 Start: 24833, Stop: 25330, Start Num: 8
Candidate Starts for Cece_60:
(Start: 8 @24833 has 10 MA's), (17, 24911), (19, 24929), (37, 25100), (44, 25184), (52, 25310),

Gene: Cece_45 Start: 16958, Stop: 17509, Start Num: 8
Candidate Starts for Cece_45:
(Start: 8 @16958 has 10 MA's), (22, 17111), (23, 17126), (30, 17165), (31, 17171), (39, 17216), (48, 17342), (51, 17393), (55, 17441), (59, 17498),

Gene: Mimi_79 Start: 31679, Stop: 32173, Start Num: 9
Candidate Starts for Mimi_79:
(Start: 9 @31679 has 2 MA's), (18, 31775), (20, 31784), (29, 31886), (38, 31946), (47, 32069),

Gene: Patbob_72 Start: 31972, Stop: 32466, Start Num: 9
Candidate Starts for Patbob_72:
(5, 31933), (Start: 9 @31972 has 2 MA's), (18, 32068), (20, 32077), (22, 32125), (29, 32179), (33, 32203), (40, 32248), (47, 32362),

Gene: PauloDiaboli_41 Start: 14108, Stop: 14713, Start Num: 4
Candidate Starts for PauloDiaboli_41:
(1, 14084), (Start: 4 @14108 has 4 MA's), (Start: 8 @14156 has 10 MA's), (12, 14201), (22, 14309), (35, 14402), (49, 14573), (51, 14606), (56, 14669), (57, 14678), (58, 14693),

Gene: PauloDiaboli_396 Start: 190737, Stop: 191342, Start Num: 4
Candidate Starts for PauloDiaboli_396:
(1, 190713), (Start: 4 @190737 has 4 MA's), (Start: 8 @190785 has 10 MA's), (12, 190830), (22, 190938), (35, 191031), (49, 191202), (51, 191235), (56, 191298), (57, 191307), (58, 191322),

Gene: PauloDiaboli_73 Start: 25590, Stop: 26087, Start Num: 8
Candidate Starts for PauloDiaboli_73:
(Start: 8 @25590 has 10 MA's), (33, 25824), (44, 25941), (45, 25980), (52, 26067), (53, 26079),

Gene: Phrampa_66 Start: 28999, Stop: 29493, Start Num: 9
Candidate Starts for Phrampa_66:
(Start: 9 @28999 has 2 MA's), (18, 29095), (20, 29104), (22, 29152), (29, 29206), (43, 29305), (47, 29389),

Gene: Pumpernickel_350 Start: 183775, Stop: 184356, Start Num: 8
Candidate Starts for Pumpernickel_350:
(5, 183742), (Start: 8 @183775 has 10 MA's), (25, 183967), (35, 184030), (36, 184039), (41, 184081), (42, 184090), (49, 184201), (50, 184207),

Gene: Pumpernickel_76 Start: 29614, Stop: 30117, Start Num: 8
Candidate Starts for Pumpernickel_76:
(7, 29611), (Start: 8 @29614 has 10 MA's), (10, 29644), (14, 29677), (15, 29686), (16, 29689), (20, 29713), (24, 29782), (26, 29806), (27, 29812), (44, 29965), (52, 30091),

Gene: Pumpernickel_49 Start: 17643, Stop: 18224, Start Num: 8
Candidate Starts for Pumpernickel_49:
(5, 17610), (Start: 8 @17643 has 10 MA's), (25, 17835), (35, 17898), (36, 17907), (41, 17949), (42, 17958), (49, 18069), (50, 18075),

Gene: Racecar_73 Start: 32332, Stop: 32826, Start Num: 9
Candidate Starts for Racecar_73:
(Start: 9 @32332 has 2 MA's), (18, 32428), (20, 32437), (29, 32539), (38, 32599), (47, 32722),

Gene: SJReid_78 Start: 33536, Stop: 34036, Start Num: 9
Candidate Starts for SJReid_78:
(Start: 9 @33536 has 2 MA's), (13, 33590), (20, 33641), (22, 33689), (34, 33770), (54, 34016),

Gene: Talia1610_72 Start: 31697, Stop: 32191, Start Num: 9
Candidate Starts for Talia1610_72:

(Start: 9 @31697 has 2 MA's), (18, 31793), (20, 31802), (29, 31904), (38, 31964), (47, 32087),

Gene: Zooman_61 Start: 24985, Stop: 25482, Start Num: 8
Candidate Starts for Zooman_61:
(Start: 8 @24985 has 10 MA's), (19, 25081), (28, 25192), (44, 25336), (45, 25375), (51, 25447), (52, 25462),

Gene: Zooman_353 Start: 191506, Stop: 192084, Start Num: 6
Candidate Starts for Zooman_353:
(2, 191449), (3, 191458), (Start: 6 @191506 has 4 MA's), (11, 191557), (21, 191641), (23, 191683), (27, 191716), (32, 191746), (33, 191752), (40, 191794), (47, 191905), (49, 191932), (51, 191965), (56, 192028), (59, 192067),

Gene: Zooman_40 Start: 15855, Stop: 16433, Start Num: 6
Candidate Starts for Zooman_40:
(2, 15798), (3, 15807), (Start: 6 @15855 has 4 MA's), (11, 15906), (21, 15990), (23, 16032), (27, 16065), (32, 16095), (33, 16101), (40, 16143), (47, 16254), (49, 16281), (51, 16314), (56, 16377), (59, 16416),