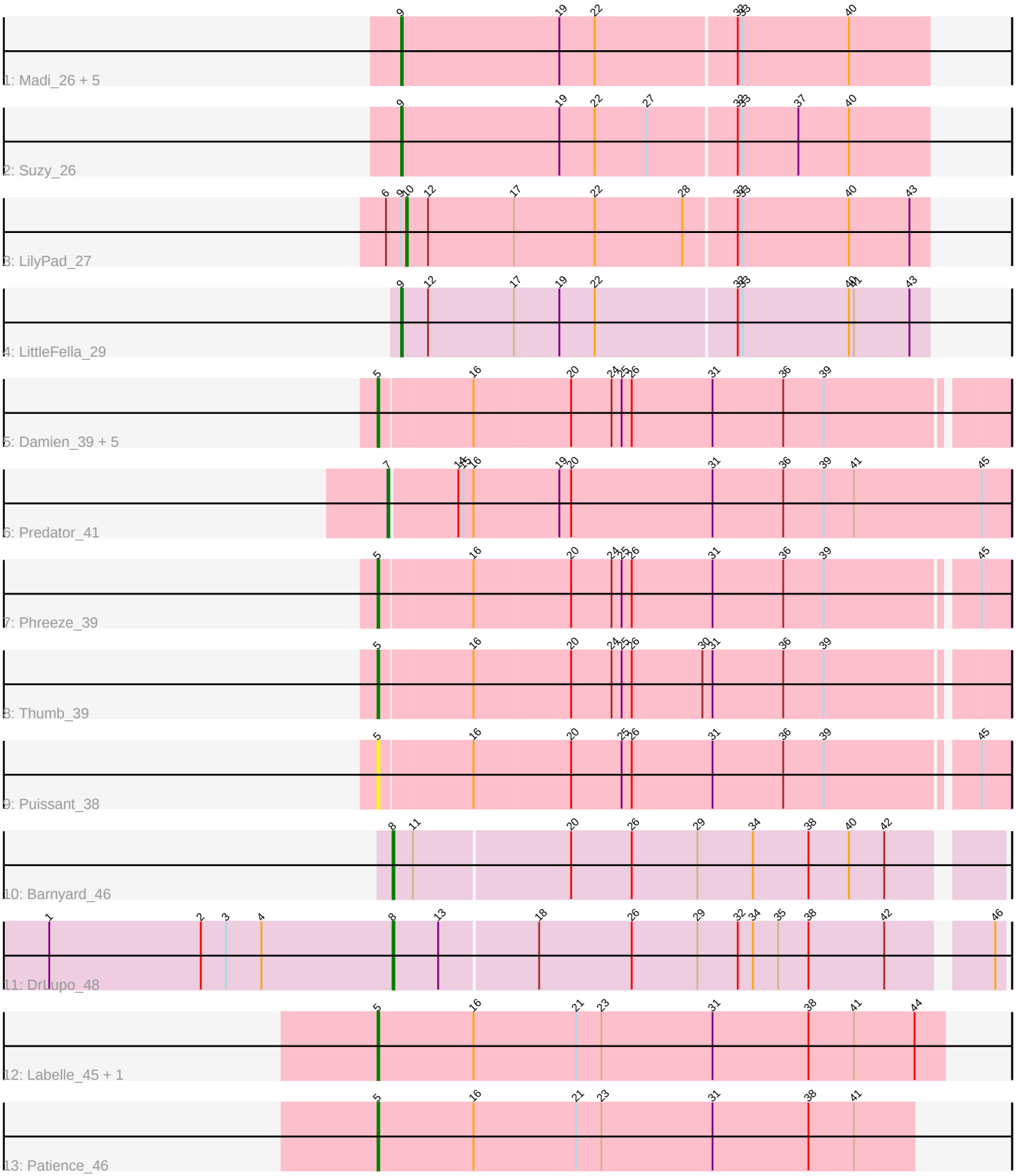
Pham 196788


1: Madi_26 + 5
2: Suzy_26
3: LilyPad_27
4: LittleFella_29
5: Damien_39 + 5
6: Predator_41
7: Phreeze_39
8: Thumb_39
9: Puissant_38
10: Barnyard_46
11: Druupo_48
12: Labelle_45 + 1
13: Patience_46

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 196788 Report

This analysis was run 12/09/24 on database version 580.

Pham number 196788 has 24 members, 1 are drafts.

Phages represented in each track:
• Track 1 : Madi_26, BiteSize_26, Beyoncage_26, Terapin_26, Sienna_26, Djokovic_26
• Track 2 : Suzy_26
• Track 3 : LilyPad_27
• Track 4 : LittleFella_29
• Track 5 : Damien_39, Megatron06_41, Konstantine_44, Oaker_39, Beckerton_39, Cborch11_40
• Track 6 : Predator_41
• Track 7 : Phreeze_39
• Track 8 : Thumb_39
• Track 9 : Puissant_38
• Track 10 : Barnyard_46
• Track 11 : DrLupo_48
• Track 12 : Labelle_45, Madruga_44
• Track 13 : Patience_46

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 11 of the 23 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Beckerton_39, Cborch11_40, Damien_39, Konstantine_44, Labelle_45, Madruga_44, Megatron06_41, Oaker_39, Patience_46, Phreeze_39, Puissant_38, Thumb_39,

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

Genes that do not have the "Most Annotated" start:
• Barnyard_46, Beyoncage_26, BiteSize_26, Djokovic_26, DrLupo_48, LilyPad_27, LittleFella_29, Madi_26, Predator_41, Sienna_26, Suzy_26, Terapin_26,

Summary by start number:

Start 5:
• Found in 12 of 24 (50.0%) of genes in pham
• Manual Annotations of this start: 11 of 23
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Beckerton_39 (H1), Cborch11_40 (H1), Damien_39 (H1), Konstantine_44 (H1), Labelle_45 (U), Madruga_44 (U), Megatron06_41 (H1), Oaker_39 (H1), Patience_46 (U), Phreeze_39 (H1), Puissant_38 (H1), Thumb_39 (H1),

Start 7:
• Found in 1 of 24 (4.2%) of genes in pham
• Manual Annotations of this start: 1 of 23
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Predator_41 (H1),

Start 8:
• Found in 2 of 24 (8.3%) of genes in pham
• Manual Annotations of this start: 2 of 23
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Barnyard_46 (H2), DrLupo_48 (H2),

Start 9:
• Found in 9 of 24 (37.5%) of genes in pham
• Manual Annotations of this start: 8 of 23
• Called 88.9% of time when present
• Phage (with cluster) where this start called: Beyoncage_26 (DG1), BiteSize_26 (DG1), Djokovic_26 (DG1), LittleFella_29 (DG2), Madi_26 (DG1), Sienna_26 (DG1), Suzy_26 (DG1), Terapin_26 (DG1),

Start 10:
• Found in 1 of 24 (4.2%) of genes in pham
• Manual Annotations of this start: 1 of 23
• Called 100.0% of time when present
• Phage (with cluster) where this start called: LilyPad_27 (DG1),

Summary by clusters:

There are 5 clusters represented in this pham: DG2, H2, DG1, U, H1,

Info for manual annotations of cluster DG1:
•Start number 9 was manually annotated 7 times for cluster DG1.
•Start number 10 was manually annotated 1 time for cluster DG1.

Info for manual annotations of cluster DG2:
•Start number 9 was manually annotated 1 time for cluster DG2.

Info for manual annotations of cluster H1:
•Start number 5 was manually annotated 8 times for cluster H1.
•Start number 7 was manually annotated 1 time for cluster H1.

Info for manual annotations of cluster H2:
•Start number 8 was manually annotated 2 times for cluster H2.

Info for manual annotations of cluster U:
•Start number 5 was manually annotated 3 times for cluster U.

Gene Information:

Gene: Barnyard_46 Start: 35709, Stop: 36056, Start Num: 8
Candidate Starts for Barnyard_46:
(Start: 8 @35709 has 2 MA's), (11, 35721), (20, 35811), (26, 35847), (29, 35886), (34, 35919), (38, 35952), (40, 35976), (42, 35997),

Gene: Beckerton_39 Start: 35623, Stop: 35985, Start Num: 5
Candidate Starts for Beckerton_39:
(Start: 5 @35623 has 11 MA's), (16, 35677), (20, 35734), (24, 35758), (25, 35764), (26, 35770), (31, 35818), (36, 35860), (39, 35884),

Gene: Beyoncage_26 Start: 23306, Stop: 23614, Start Num: 9
Candidate Starts for Beyoncage_26:
(Start: 9 @23306 has 8 MA's), (19, 23399), (22, 23420), (32, 23501), (33, 23504), (40, 23567),

Gene: BiteSize_26 Start: 23306, Stop: 23614, Start Num: 9
Candidate Starts for BiteSize_26:
(Start: 9 @23306 has 8 MA's), (19, 23399), (22, 23420), (32, 23501), (33, 23504), (40, 23567),

Gene: Cborch11_40 Start: 35088, Stop: 35450, Start Num: 5
Candidate Starts for Cborch11_40:
(Start: 5 @35088 has 11 MA's), (16, 35142), (20, 35199), (24, 35223), (25, 35229), (26, 35235), (31, 35283), (36, 35325), (39, 35349),

Gene: Damien_39 Start: 35089, Stop: 35451, Start Num: 5
Candidate Starts for Damien_39:
(Start: 5 @35089 has 11 MA's), (16, 35143), (20, 35200), (24, 35224), (25, 35230), (26, 35236), (31, 35284), (36, 35326), (39, 35350),

Gene: Djokovic_26 Start: 23306, Stop: 23614, Start Num: 9
Candidate Starts for Djokovic_26:
(Start: 9 @23306 has 8 MA's), (19, 23399), (22, 23420), (32, 23501), (33, 23504), (40, 23567),

Gene: DrLupo_48 Start: 36073, Stop: 36420, Start Num: 8
Candidate Starts for DrLupo_48:
(1, 35869), (2, 35959), (3, 35974), (4, 35995), (Start: 8 @36073 has 2 MA's), (13, 36100), (18, 36157), (26, 36211), (29, 36250), (32, 36274), (34, 36283), (35, 36298), (38, 36316), (42, 36361), (46, 36415),

Gene: Konstantine_44 Start: 36290, Stop: 36652, Start Num: 5
Candidate Starts for Konstantine_44:
(Start: 5 @36290 has 11 MA's), (16, 36344), (20, 36401), (24, 36425), (25, 36431), (26, 36437), (31, 36485), (36, 36527), (39, 36551),

Gene: Labelle_45 Start: 37483, Stop: 37818, Start Num: 5
Candidate Starts for Labelle_45:

(Start: 5 @37483 has 11 MA's), (16, 37540), (21, 37600), (23, 37615), (31, 37681), (38, 37738), (41, 37765), (44, 37801),

Gene: LilyPad_27 Start: 23648, Stop: 23953, Start Num: 10
Candidate Starts for LilyPad_27:
(6, 23636), (Start: 9 @23645 has 8 MA's), (Start: 10 @23648 has 1 MA's), (12, 23660), (17, 23711), (22, 23759), (28, 23810), (32, 23840), (33, 23843), (40, 23906), (43, 23942),

Gene: LittleFella_29 Start: 25888, Stop: 26196, Start Num: 9
Candidate Starts for LittleFella_29:
(Start: 9 @25888 has 8 MA's), (12, 25903), (17, 25954), (19, 25981), (22, 26002), (32, 26083), (33, 26086), (40, 26149), (41, 26152), (43, 26185),

Gene: Madi_26 Start: 23306, Stop: 23614, Start Num: 9
Candidate Starts for Madi_26:
(Start: 9 @23306 has 8 MA's), (19, 23399), (22, 23420), (32, 23501), (33, 23504), (40, 23567),

Gene: Madruga_44 Start: 37151, Stop: 37492, Start Num: 5
Candidate Starts for Madruga_44:
(Start: 5 @37151 has 11 MA's), (16, 37208), (21, 37268), (23, 37283), (31, 37349), (38, 37406), (41, 37433), (44, 37469),

Gene: Megatron06_41 Start: 35622, Stop: 35984, Start Num: 5
Candidate Starts for Megatron06_41:
(Start: 5 @35622 has 11 MA's), (16, 35676), (20, 35733), (24, 35757), (25, 35763), (26, 35769), (31, 35817), (36, 35859), (39, 35883),

Gene: Oaker_39 Start: 35346, Stop: 35708, Start Num: 5
Candidate Starts for Oaker_39:
(Start: 5 @35346 has 11 MA's), (16, 35400), (20, 35457), (24, 35481), (25, 35487), (26, 35493), (31, 35541), (36, 35583), (39, 35607),

Gene: Patience_46 Start: 38032, Stop: 38349, Start Num: 5
Candidate Starts for Patience_46:
(Start: 5 @38032 has 11 MA's), (16, 38089), (21, 38149), (23, 38164), (31, 38230), (38, 38287), (41, 38314),

Gene: Phreeze_39 Start: 35089, Stop: 35451, Start Num: 5
Candidate Starts for Phreeze_39:
(Start: 5 @35089 has 11 MA's), (16, 35143), (20, 35200), (24, 35224), (25, 35230), (26, 35236), (31, 35284), (36, 35326), (39, 35350), (45, 35434),

Gene: Predator_41 Start: 34274, Stop: 34639, Start Num: 7
Candidate Starts for Predator_41:
(Start: 7 @34274 has 1 MA's), (14, 34313), (15, 34316), (16, 34322), (19, 34373), (20, 34379), (31, 34463), (36, 34505), (39, 34529), (41, 34547), (45, 34622),

Gene: Puissant_38 Start: 35577, Stop: 35939, Start Num: 5
Candidate Starts for Puissant_38:
(Start: 5 @35577 has 11 MA's), (16, 35631), (20, 35688), (25, 35718), (26, 35724), (31, 35772), (36, 35814), (39, 35838), (45, 35922),

Gene: Sienna_26 Start: 23306, Stop: 23614, Start Num: 9

Candidate Starts for Sienna_26:
(Start: 9 @23306 has 8 MA's), (19, 23399), (22, 23420), (32, 23501), (33, 23504), (40, 23567),

Gene: Suzy_26 Start: 24467, Stop: 24775, Start Num: 9
Candidate Starts for Suzy_26:
(Start: 9 @24467 has 8 MA's), (19, 24560), (22, 24581), (27, 24611), (32, 24662), (33, 24665), (37, 24698), (40, 24728),

Gene: Terapin_26 Start: 23306, Stop: 23614, Start Num: 9
Candidate Starts for Terapin_26:
(Start: 9 @23306 has 8 MA's), (19, 23399), (22, 23420), (32, 23501), (33, 23504), (40, 23567),

Gene: Thumb_39 Start: 35086, Stop: 35448, Start Num: 5
Candidate Starts for Thumb_39:
(Start: 5 @35086 has 11 MA's), (16, 35140), (20, 35197), (24, 35221), (25, 35227), (26, 35233), (30, 35275), (31, 35281), (36, 35323), (39, 35347),