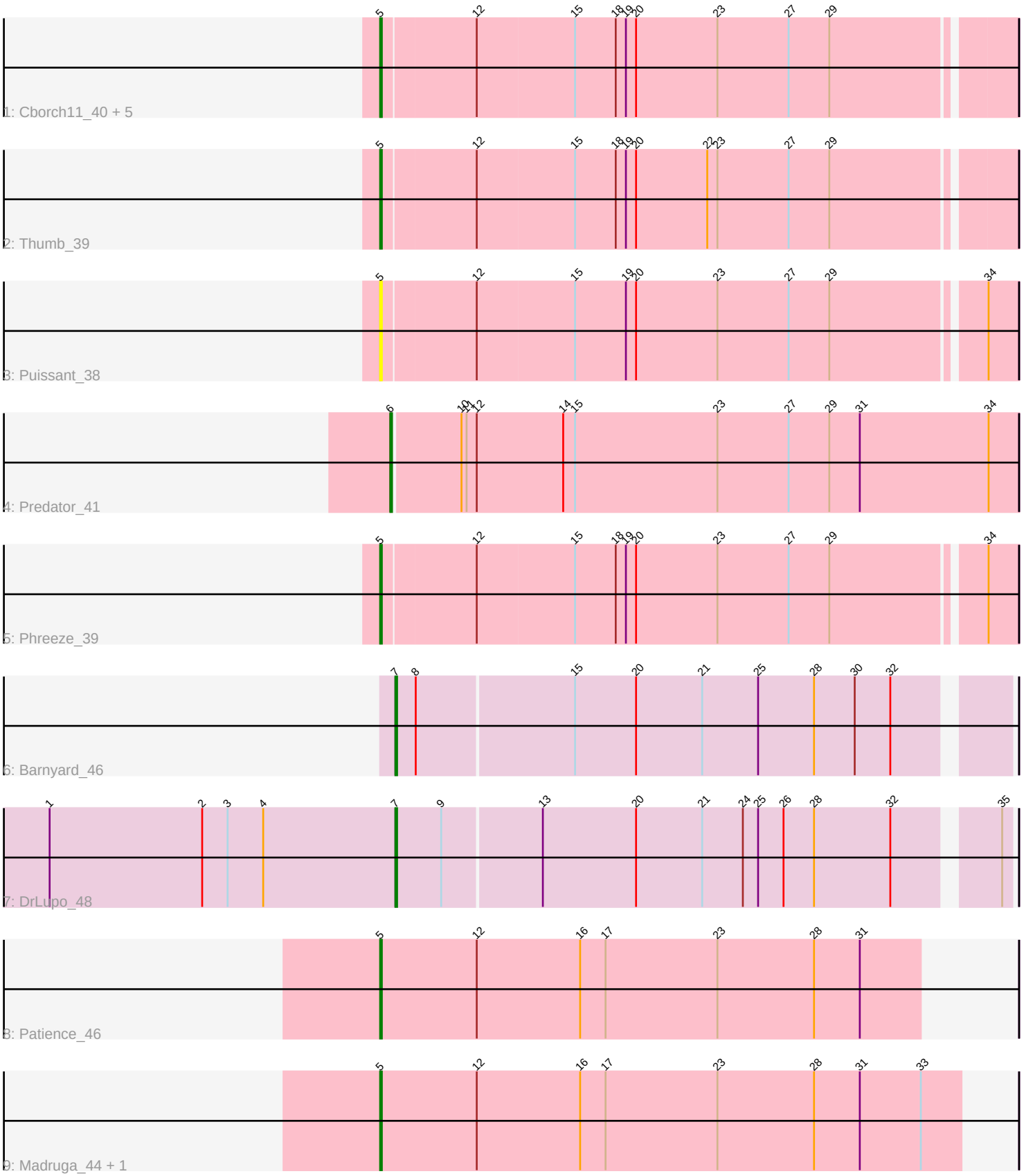
Pham 168621


1: Cborch11_40 + 5
2: Thumb_39
3: Puissant_38
4: Predator_41
5: Phreeze_39
6: Barnyard_46
7: DrLupo_48
8: Patience_46
9: Madruga_44 + 1

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 168621 Report

This analysis was run 07/09/24 on database version 566.

Pham number 168621 has 15 members, 1 are drafts.

Phages represented in each track:
• Track 1 : Cborch11_40, Damien_39, Oaker_39, Megatron06_41, Beckerton_39, Konstantine_44
• Track 2 : Thumb_39
• Track 3 : Puissant_38
• Track 4 : Predator_41
• Track 5 : Phreeze_39
• Track 6 : Barnyard_46
• Track 7 : DrLupo_48
• Track 8 : Patience_46
• Track 9 : Madruga_44, Labelle_45

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 14 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:
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Genes that do not have the "Most Annotated" start:
• Barnyard_46, DrLupo_48, Predator_41,

Summary by start number:

Start 5:
• Found in 12 of 15 (80.0%) of genes in pham
• Manual Annotations of this start: 11 of 14
• 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 6:
• Found in 1 of 15 (6.7%) of genes in pham
• Manual Annotations of this start: 1 of 14
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Predator_41 (H1),

Start 7:
• Found in 2 of 15 (13.3%) 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: Barnyard_46 (H2), DrLupo_48 (H2),

Summary by clusters:

There are 3 clusters represented in this pham: H2, H1, U,

Info for manual annotations of cluster H1:
•Start number 5 was manually annotated 8 times for cluster H1.
•Start number 6 was manually annotated 1 time for cluster H1.

Info for manual annotations of cluster H2:
•Start number 7 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: 7
Candidate Starts for Barnyard_46:
(Start: 7 @35709 has 2 MA's), (8, 35721), (15, 35811), (20, 35847), (21, 35886), (25, 35919), (28, 35952), (30, 35976), (32, 35997),

Gene: Beckerton_39 Start: 35623, Stop: 35985, Start Num: 5
Candidate Starts for Beckerton_39:
(Start: 5 @35623 has 11 MA's), (12, 35677), (15, 35734), (18, 35758), (19, 35764), (20, 35770), (23, 35818), (27, 35860), (29, 35884),

Gene: Cborch11_40 Start: 35088, Stop: 35450, Start Num: 5
Candidate Starts for Cborch11_40:
(Start: 5 @35088 has 11 MA's), (12, 35142), (15, 35199), (18, 35223), (19, 35229), (20, 35235), (23, 35283), (27, 35325), (29, 35349),

Gene: Damien_39 Start: 35089, Stop: 35451, Start Num: 5
Candidate Starts for Damien_39:

(Start: 5 @35089 has 11 MA's), (12, 35143), (15, 35200), (18, 35224), (19, 35230), (20, 35236), (23, 35284), (27, 35326), (29, 35350),

Gene: DrLupo_48 Start: 36073, Stop: 36420, Start Num: 7
Candidate Starts for DrLupo_48:
(1, 35869), (2, 35959), (3, 35974), (4, 35995), (Start: 7 @36073 has 2 MA's), (9, 36100), (13, 36157), (20, 36211), (21, 36250), (24, 36274), (25, 36283), (26, 36298), (28, 36316), (32, 36361), (35, 36415),

Gene: Konstantine_44 Start: 36290, Stop: 36652, Start Num: 5
Candidate Starts for Konstantine_44:
(Start: 5 @36290 has 11 MA's), (12, 36344), (15, 36401), (18, 36425), (19, 36431), (20, 36437), (23, 36485), (27, 36527), (29, 36551),

Gene: Labelle_45 Start: 37483, Stop: 37818, Start Num: 5
Candidate Starts for Labelle_45:
(Start: 5 @37483 has 11 MA's), (12, 37540), (16, 37600), (17, 37615), (23, 37681), (28, 37738), (31, 37765), (33, 37801),

Gene: Madruga_44 Start: 37151, Stop: 37492, Start Num: 5
Candidate Starts for Madruga_44:
(Start: 5 @37151 has 11 MA's), (12, 37208), (16, 37268), (17, 37283), (23, 37349), (28, 37406), (31, 37433), (33, 37469),

Gene: Megatron06_41 Start: 35622, Stop: 35984, Start Num: 5
Candidate Starts for Megatron06_41:
(Start: 5 @35622 has 11 MA's), (12, 35676), (15, 35733), (18, 35757), (19, 35763), (20, 35769), (23, 35817), (27, 35859), (29, 35883),

Gene: Oaker_39 Start: 35346, Stop: 35708, Start Num: 5
Candidate Starts for Oaker_39:
(Start: 5 @35346 has 11 MA's), (12, 35400), (15, 35457), (18, 35481), (19, 35487), (20, 35493), (23, 35541), (27, 35583), (29, 35607),

Gene: Patience_46 Start: 38032, Stop: 38349, Start Num: 5
Candidate Starts for Patience_46:
(Start: 5 @38032 has 11 MA's), (12, 38089), (16, 38149), (17, 38164), (23, 38230), (28, 38287), (31, 38314),

Gene: Phreeze_39 Start: 35089, Stop: 35451, Start Num: 5
Candidate Starts for Phreeze_39:
(Start: 5 @35089 has 11 MA's), (12, 35143), (15, 35200), (18, 35224), (19, 35230), (20, 35236), (23, 35284), (27, 35326), (29, 35350), (34, 35434),

Gene: Predator_41 Start: 34274, Stop: 34639, Start Num: 6
Candidate Starts for Predator_41:
(Start: 6 @34274 has 1 MA's), (10, 34313), (11, 34316), (12, 34322), (14, 34373), (15, 34379), (23, 34463), (27, 34505), (29, 34529), (31, 34547), (34, 34622),

Gene: Puissant_38 Start: 35577, Stop: 35939, Start Num: 5
Candidate Starts for Puissant_38:
(Start: 5 @35577 has 11 MA's), (12, 35631), (15, 35688), (19, 35718), (20, 35724), (23, 35772), (27, 35814), (29, 35838), (34, 35922),

Gene: Thumb_39 Start: 35086, Stop: 35448, Start Num: 5
Candidate Starts for Thumb_39:
(Start: 5 @35086 has 11 MA's), (12, 35140), (15, 35197), (18, 35221), (19, 35227), (20, 35233), (22, 35275), (23, 35281), (27, 35323), (29, 35347),