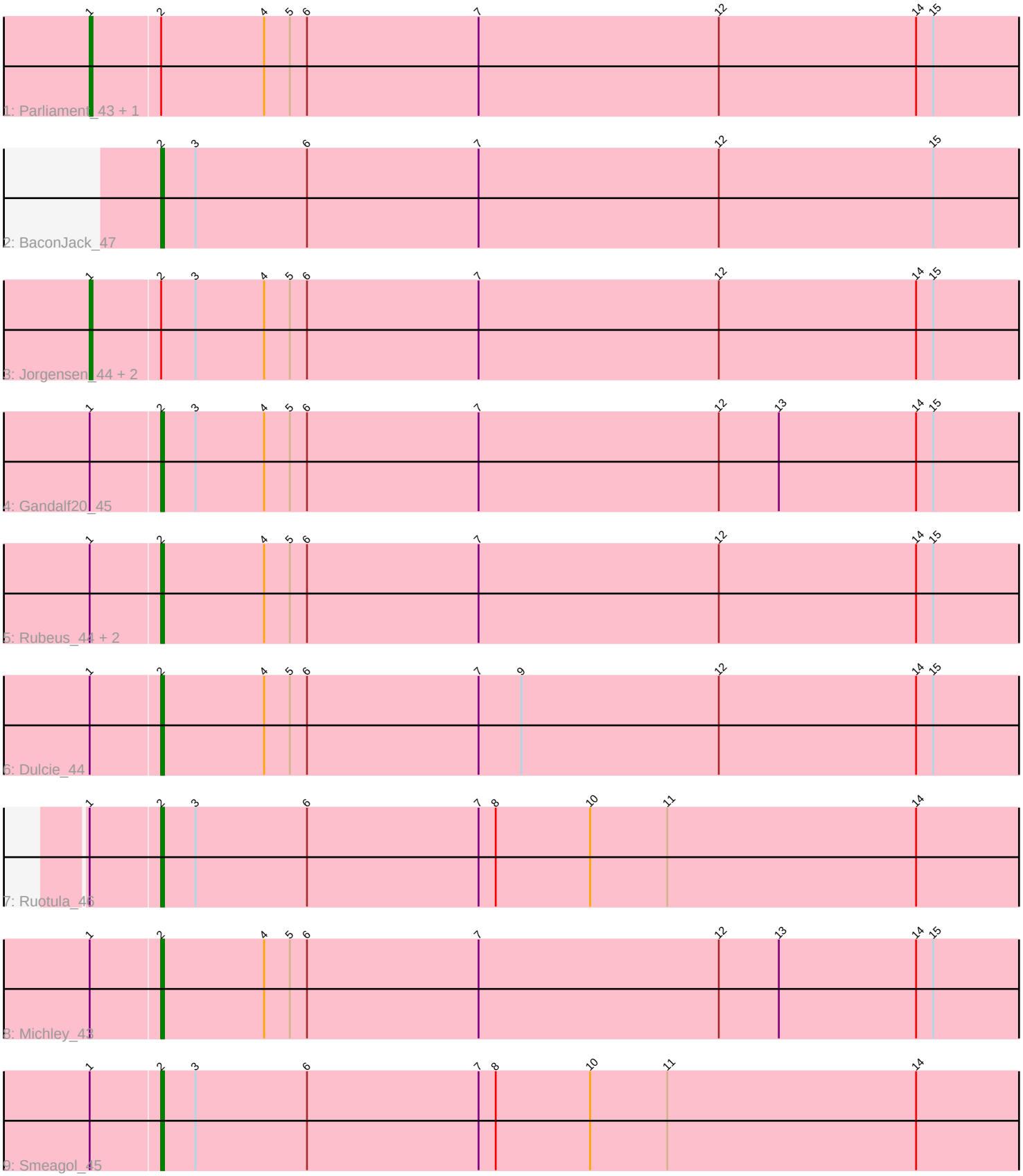
Pham 4878


1: Parliament_43 + 1
2: BaconJack_47
3: Jorgensen_44 + 2
4: Gandalf20_45
5: Rubeus_44 + 2
6: Dulcie_44
7: Ruotula_46
8: Michley_43
9: Smeagol_45

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 4878 Report

This analysis was run 04/28/24 on database version 559.

Pham number 4878 has 14 members, 1 are drafts.

Phages represented in each track:
• Track 1 : Parliament_43, Tasp14_45
• Track 2 : BaconJack_47
• Track 3 : Jorgensen_44, Ichabod_45, Peterson_47
• Track 4 : Gandalf20_45
• Track 5 : Rubeus_44, Gwendoluna_47, Lamina13_44
• Track 6 : Dulcie_44
• Track 7 : Ruotula_46
• Track 8 : Michley_43
• Track 9 : Smeagol_45

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

The start number called the most often in the published annotations is 2, it was called in 8 of the 13 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• BaconJack_47, Dulcie_44, Gandalf20_45, Gwendoluna_47, Lamina13_44, Michley_43, Rubeus_44, Ruotula_46, Smeagol_45,

Genes that have the "Most Annotated" start but do not call it:
• Ichabod_45, Jorgensen_44, Parliament_43, Peterson_47, Tasp14_45,

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

Summary by start number:

Start 1:
• Found in 13 of 14 (92.9%) of genes in pham
• Manual Annotations of this start: 5 of 13
• Called 38.5% of time when present
• Phage (with cluster) where this start called: Ichabod_45 (A1), Jorgensen_44 (A1), Parliament_43 (A1), Peterson_47 (A1), Tasp14_45 (A1),

Start 2:
• Found in 14 of 14 (100.0%) of genes in pham
• Manual Annotations of this start: 8 of 13
• Called 64.3% of time when present
• Phage (with cluster) where this start called: BaconJack_47 (A1), Dulcie_44 (A1), Gandalf20_45 (A1), Gwendoluna_47 (A1), Lamina13_44 (A1), Michley_43 (A1), Rubeus_44 (A1), Ruotula_46 (A1), Smeagol_45 (A1),

Summary by clusters:

There is one cluster represented in this pham: A1

Info for manual annotations of cluster A1:
•Start number 1 was manually annotated 5 times for cluster A1.
•Start number 2 was manually annotated 8 times for cluster A1.

Gene Information:

Gene: BaconJack_47 Start: 33764, Stop: 33450, Start Num: 2
Candidate Starts for BaconJack_47:
(Start: 2 @33764 has 8 MA's), (3, 33752), (6, 33713), (7, 33653), (12, 33569), (15, 33494),

Gene: Dulcie_44 Start: 32784, Stop: 32470, Start Num: 2
Candidate Starts for Dulcie_44:
(Start: 1 @32808 has 5 MA's), (Start: 2 @32784 has 8 MA's), (4, 32748), (5, 32739), (6, 32733), (7, 32673), (9, 32658), (12, 32589), (14, 32520), (15, 32514),

Gene: Gandalf20_45 Start: 33631, Stop: 33317, Start Num: 2
Candidate Starts for Gandalf20_45:
(Start: 1 @33655 has 5 MA's), (Start: 2 @33631 has 8 MA's), (3, 33619), (4, 33595), (5, 33586), (6, 33580), (7, 33520), (12, 33436), (13, 33415), (14, 33367), (15, 33361),

Gene: Gwendoluna_47 Start: 34697, Stop: 34383, Start Num: 2
Candidate Starts for Gwendoluna_47:
(Start: 1 @34721 has 5 MA's), (Start: 2 @34697 has 8 MA's), (4, 34661), (5, 34652), (6, 34646), (7, 34586), (12, 34502), (14, 34433), (15, 34427),

Gene: Ichabod_45 Start: 33014, Stop: 32676, Start Num: 1
Candidate Starts for Ichabod_45:
(Start: 1 @33014 has 5 MA's), (Start: 2 @32990 has 8 MA's), (3, 32978), (4, 32954), (5, 32945), (6, 32939), (7, 32879), (12, 32795), (14, 32726), (15, 32720),

Gene: Jorgensen_44 Start: 32765, Stop: 32427, Start Num: 1
Candidate Starts for Jorgensen_44:
(Start: 1 @32765 has 5 MA's), (Start: 2 @32741 has 8 MA's), (3, 32729), (4, 32705), (5, 32696), (6, 32690), (7, 32630), (12, 32546), (14, 32477), (15, 32471),

Gene: Lamina13_44 Start: 32540, Stop: 32226, Start Num: 2
Candidate Starts for Lamina13_44:
(Start: 1 @32564 has 5 MA's), (Start: 2 @32540 has 8 MA's), (4, 32504), (5, 32495), (6, 32489), (7, 32429), (12, 32345), (14, 32276), (15, 32270),

Gene: Michley_43 Start: 32375, Stop: 32061, Start Num: 2
Candidate Starts for Michley_43:
(Start: 1 @32399 has 5 MA's), (Start: 2 @32375 has 8 MA's), (4, 32339), (5, 32330), (6, 32324), (7, 32264), (12, 32180), (13, 32159), (14, 32111), (15, 32105),

Gene: Parliament_43 Start: 33053, Stop: 32715, Start Num: 1
Candidate Starts for Parliament_43:
(Start: 1 @33053 has 5 MA's), (Start: 2 @33029 has 8 MA's), (4, 32993), (5, 32984), (6, 32978), (7, 32918), (12, 32834), (14, 32765), (15, 32759),

Gene: Peterson_47 Start: 35204, Stop: 34866, Start Num: 1
Candidate Starts for Peterson_47:
(Start: 1 @35204 has 5 MA's), (Start: 2 @35180 has 8 MA's), (3, 35168), (4, 35144), (5, 35135), (6, 35129), (7, 35069), (12, 34985), (14, 34916), (15, 34910),

Gene: Rubeus_44 Start: 31227, Stop: 30913, Start Num: 2
Candidate Starts for Rubeus_44:
(Start: 1 @31251 has 5 MA's), (Start: 2 @31227 has 8 MA's), (4, 31191), (5, 31182), (6, 31176), (7, 31116), (12, 31032), (14, 30963), (15, 30957),

Gene: Ruotula_46 Start: 34057, Stop: 33743, Start Num: 2
Candidate Starts for Ruotula_46:
(Start: 1 @34081 has 5 MA's), (Start: 2 @34057 has 8 MA's), (3, 34045), (6, 34006), (7, 33946), (8, 33940), (10, 33907), (11, 33880), (14, 33793),

Gene: Smeagol_45 Start: 34099, Stop: 33785, Start Num: 2
Candidate Starts for Smeagol_45:
(Start: 1 @34123 has 5 MA's), (Start: 2 @34099 has 8 MA's), (3, 34087), (6, 34048), (7, 33988), (8, 33982), (10, 33949), (11, 33922), (14, 33835),

Gene: Tasp14_45 Start: 33188, Stop: 32850, Start Num: 1
Candidate Starts for Tasp14_45:
(Start: 1 @33188 has 5 MA's), (Start: 2 @33164 has 8 MA's), (4, 33128), (5, 33119), (6, 33113), (7, 33053), (12, 32969), (14, 32900), (15, 32894),