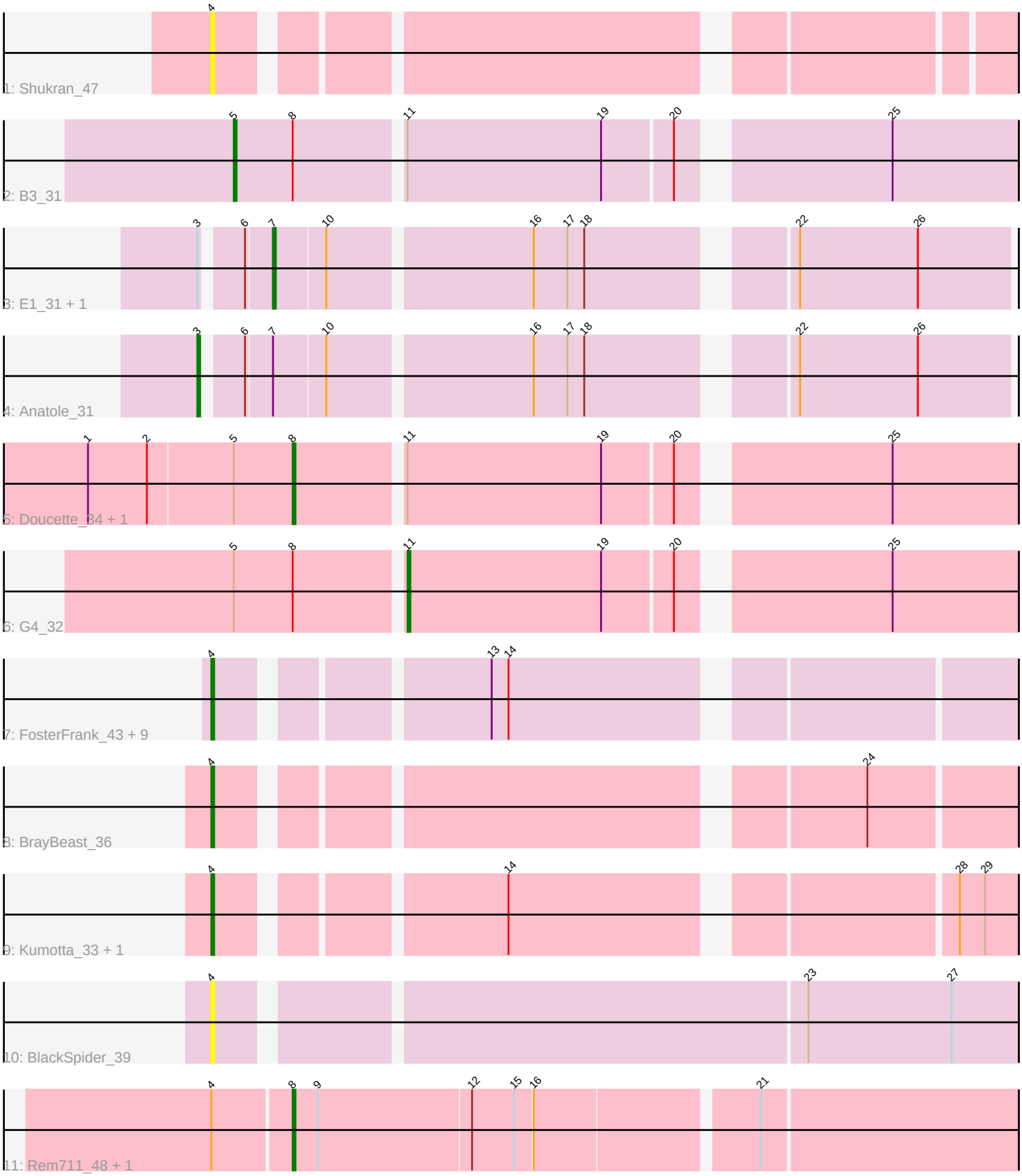
Pham 214598


1: Shukran_47
2: B3_31
3: E1_31 + 1
4: Anatole_31
5: Doucette_84 + 1
6: G4_32
7: FosterFrank_43 + 9
8: BrayBeast_36
9: Kumotta_33 + 1
10: BlackSpider_39
11: Rem711_48 + 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 214598 Report

This analysis was run 02/22/25 on database version 588.

Pham number 214598 has 24 members, 5 are drafts.

Phages represented in each track:
• Track 1 : Shukran_47
• Track 2 : B3_31
• Track 3 : E1_31, E6_31
• Track 4 : Anatole_31
• Track 5 : Doucette_34, B22_32
• Track 6 : G4_32
• Track 7 : FosterFrank_43, Peas_38, Judy_42, Bridgette_41, Eileen_37, ChuckDuck_42, Constance_41, RootBeer_32, KayMoney_41, GlobiWarming_41
• Track 8 : BrayBeast_36
• Track 9 : Kumotta_33, MargaretKali_33
• Track 10 : BlackSpider_39
• Track 11 : Rem711_48, 32HC_49

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

The start number called the most often in the published annotations is 4, it was called in 11 of the 19 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• BlackSpider_39, BrayBeast_36, Bridgette_41, ChuckDuck_42, Constance_41, Eileen_37, FosterFrank_43, GlobiWarming_41, Judy_42, KayMoney_41, Kumotta_33, MargaretKali_33, Peas_38, RootBeer_32, Shukran_47,

Genes that have the "Most Annotated" start but do not call it:
• 32HC_49, Rem711_48,

Genes that do not have the "Most Annotated" start:
• Anatole_31, B22_32, B3_31, Doucette_34, E1_31, E6_31, G4_32,

Summary by start number:

Start 3:
• Found in 3 of 24 (12.5%) of genes in pham
• Manual Annotations of this start: 1 of 19

• Called 33.3% of time when present
• Phage (with cluster) where this start called: Anatole_31 (BV),

Start 4:
• Found in 17 of 24 (70.8%) of genes in pham
• Manual Annotations of this start: 11 of 19
• Called 88.2% of time when present
• Phage (with cluster) where this start called: BlackSpider_39 (FN), BrayBeast_36 (FB), Bridgette_41 (FA), ChuckDuck_42 (FA), Constance_41 (FA), Eileen_37 (FA), FosterFrank_43 (FA), GlobiWarming_41 (FA), Judy_42 (FA), KayMoney_41 (FA), Kumotta_33 (FB), MargaretKali_33 (FB), Peas_38 (FA), RootBeer_32 (FA), Shukran_47 (AY),

Start 5:
• Found in 4 of 24 (16.7%) of genes in pham
• Manual Annotations of this start: 1 of 19
• Called 25.0% of time when present
• Phage (with cluster) where this start called: B3_31 (BV),

Start 7:
• Found in 3 of 24 (12.5%) of genes in pham
• Manual Annotations of this start: 2 of 19
• Called 66.7% of time when present
• Phage (with cluster) where this start called: E1_31 (BV), E6_31 (BW),

Start 8:
• Found in 6 of 24 (25.0%) of genes in pham
• Manual Annotations of this start: 3 of 19
• Called 66.7% of time when present
• Phage (with cluster) where this start called: 32HC_49 (Z), B22_32 (BW), Doucette_34 (BW), Rem711_48 (Z),

Start 11:
• Found in 4 of 24 (16.7%) of genes in pham
• Manual Annotations of this start: 1 of 19
• Called 25.0% of time when present
• Phage (with cluster) where this start called: G4_32 (BW),

Summary by clusters:

There are 7 clusters represented in this pham: BV, FA, FB, BW, AY, Z, FN,

Info for manual annotations of cluster BV:
•Start number 3 was manually annotated 1 time for cluster BV.
•Start number 5 was manually annotated 1 time for cluster BV.
•Start number 7 was manually annotated 1 time for cluster BV.

Info for manual annotations of cluster BW:
•Start number 7 was manually annotated 1 time for cluster BW.
•Start number 8 was manually annotated 2 times for cluster BW.
•Start number 11 was manually annotated 1 time for cluster BW.

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

Info for manual annotations of cluster FB:
•Start number 4 was manually annotated 3 times for cluster FB.

Info for manual annotations of cluster Z:
•Start number 8 was manually annotated 1 time for cluster Z.

Gene Information:

Gene: 32HC_49 Start: 34204, Stop: 34452, Start Num: 8
Candidate Starts for 32HC_49:
(Start: 4 @34177 has 11 MA's), (Start: 8 @34204 has 3 MA's), (9, 34213), (12, 34267), (15, 34282), (16, 34288), (21, 34363),

Gene: Anatole_31 Start: 23401, Stop: 23664, Start Num: 3
Candidate Starts for Anatole_31:
(Start: 3 @23401 has 1 MA's), (6, 23413), (Start: 7 @23422 has 2 MA's), (10, 23440), (16, 23509), (17, 23521), (18, 23527), (22, 23590), (26, 23632),

Gene: B22_32 Start: 23397, Stop: 23636, Start Num: 8
Candidate Starts for B22_32:
(1, 23325), (2, 23346), (Start: 5 @23376 has 1 MA's), (Start: 8 @23397 has 3 MA's), (Start: 11 @23433 has 1 MA's), (19, 23502), (20, 23526), (25, 23592),

Gene: B3_31 Start: 23506, Stop: 23766, Start Num: 5
Candidate Starts for B3_31:
(Start: 5 @23506 has 1 MA's), (Start: 8 @23527 has 3 MA's), (Start: 11 @23563 has 1 MA's), (19, 23632), (20, 23656), (25, 23722),

Gene: BlackSpider_39 Start: 28835, Stop: 29107, Start Num: 4
Candidate Starts for BlackSpider_39:
(Start: 4 @28835 has 11 MA's), (23, 29033), (27, 29084),

Gene: BrayBeast_36 Start: 26166, Stop: 26420, Start Num: 4
Candidate Starts for BrayBeast_36:
(Start: 4 @26166 has 11 MA's), (24, 26370),

Gene: Bridgette_41 Start: 28919, Stop: 29173, Start Num: 4
Candidate Starts for Bridgette_41:
(Start: 4 @28919 has 11 MA's), (13, 29003), (14, 29009),

Gene: ChuckDuck_42 Start: 28742, Stop: 28996, Start Num: 4
Candidate Starts for ChuckDuck_42:
(Start: 4 @28742 has 11 MA's), (13, 28826), (14, 28832),

Gene: Constance_41 Start: 29071, Stop: 29325, Start Num: 4
Candidate Starts for Constance_41:
(Start: 4 @29071 has 11 MA's), (13, 29155), (14, 29161),

Gene: Doucette_34 Start: 24811, Stop: 25050, Start Num: 8
Candidate Starts for Doucette_34:
(1, 24739), (2, 24760), (Start: 5 @24790 has 1 MA's), (Start: 8 @24811 has 3 MA's), (Start: 11 @24847 has 1 MA's), (19, 24916), (20, 24940), (25, 25006),

Gene: E1_31 Start: 23422, Stop: 23664, Start Num: 7
Candidate Starts for E1_31:
(Start: 3 @23401 has 1 MA's), (6, 23413), (Start: 7 @23422 has 2 MA's), (10, 23440), (16, 23509), (17, 23521), (18, 23527), (22, 23590), (26, 23632),

Gene: E6_31 Start: 23144, Stop: 23386, Start Num: 7
Candidate Starts for E6_31:
(Start: 3 @23123 has 1 MA's), (6, 23135), (Start: 7 @23144 has 2 MA's), (10, 23162), (16, 23231), (17, 23243), (18, 23249), (22, 23312), (26, 23354),

Gene: Eileen_37 Start: 27149, Stop: 27403, Start Num: 4
Candidate Starts for Eileen_37:
(Start: 4 @27149 has 11 MA's), (13, 27233), (14, 27239),

Gene: FosterFrank_43 Start: 28801, Stop: 29055, Start Num: 4
Candidate Starts for FosterFrank_43:
(Start: 4 @28801 has 11 MA's), (13, 28885), (14, 28891),

Gene: G4_32 Start: 24466, Stop: 24669, Start Num: 11
Candidate Starts for G4_32:
(Start: 5 @24409 has 1 MA's), (Start: 8 @24430 has 3 MA's), (Start: 11 @24466 has 1 MA's), (19, 24535), (20, 24559), (25, 24625),

Gene: GlobiWarming_41 Start: 28325, Stop: 28579, Start Num: 4
Candidate Starts for GlobiWarming_41:
(Start: 4 @28325 has 11 MA's), (13, 28409), (14, 28415),

Gene: Judy_42 Start: 29237, Stop: 29491, Start Num: 4
Candidate Starts for Judy_42:
(Start: 4 @29237 has 11 MA's), (13, 29321), (14, 29327),

Gene: KayMoney_41 Start: 28414, Stop: 28668, Start Num: 4
Candidate Starts for KayMoney_41:
(Start: 4 @28414 has 11 MA's), (13, 28498), (14, 28504),

Gene: Kumotta_33 Start: 26166, Stop: 26420, Start Num: 4
Candidate Starts for Kumotta_33:
(Start: 4 @26166 has 11 MA's), (14, 26256), (28, 26400), (29, 26409),

Gene: MargaretKali_33 Start: 25801, Stop: 26055, Start Num: 4
Candidate Starts for MargaretKali_33:
(Start: 4 @25801 has 11 MA's), (14, 25891), (28, 26035), (29, 26044),

Gene: Peas_38 Start: 29296, Stop: 29550, Start Num: 4
Candidate Starts for Peas_38:
(Start: 4 @29296 has 11 MA's), (13, 29380), (14, 29386),

Gene: Rem711_48 Start: 34188, Stop: 34436, Start Num: 8
Candidate Starts for Rem711_48:
(Start: 4 @34161 has 11 MA's), (Start: 8 @34188 has 3 MA's), (9, 34197), (12, 34251), (15, 34266), (16, 34272), (21, 34347),

Gene: RootBeer_32 Start: 25199, Stop: 25453, Start Num: 4
Candidate Starts for RootBeer_32:
(Start: 4 @25199 has 11 MA's), (13, 25283), (14, 25289),

Gene: Shukran_47 Start: 30205, Stop: 30456, Start Num: 4
Candidate Starts for Shukran_47:
(Start: 4 @30205 has 11 MA's),