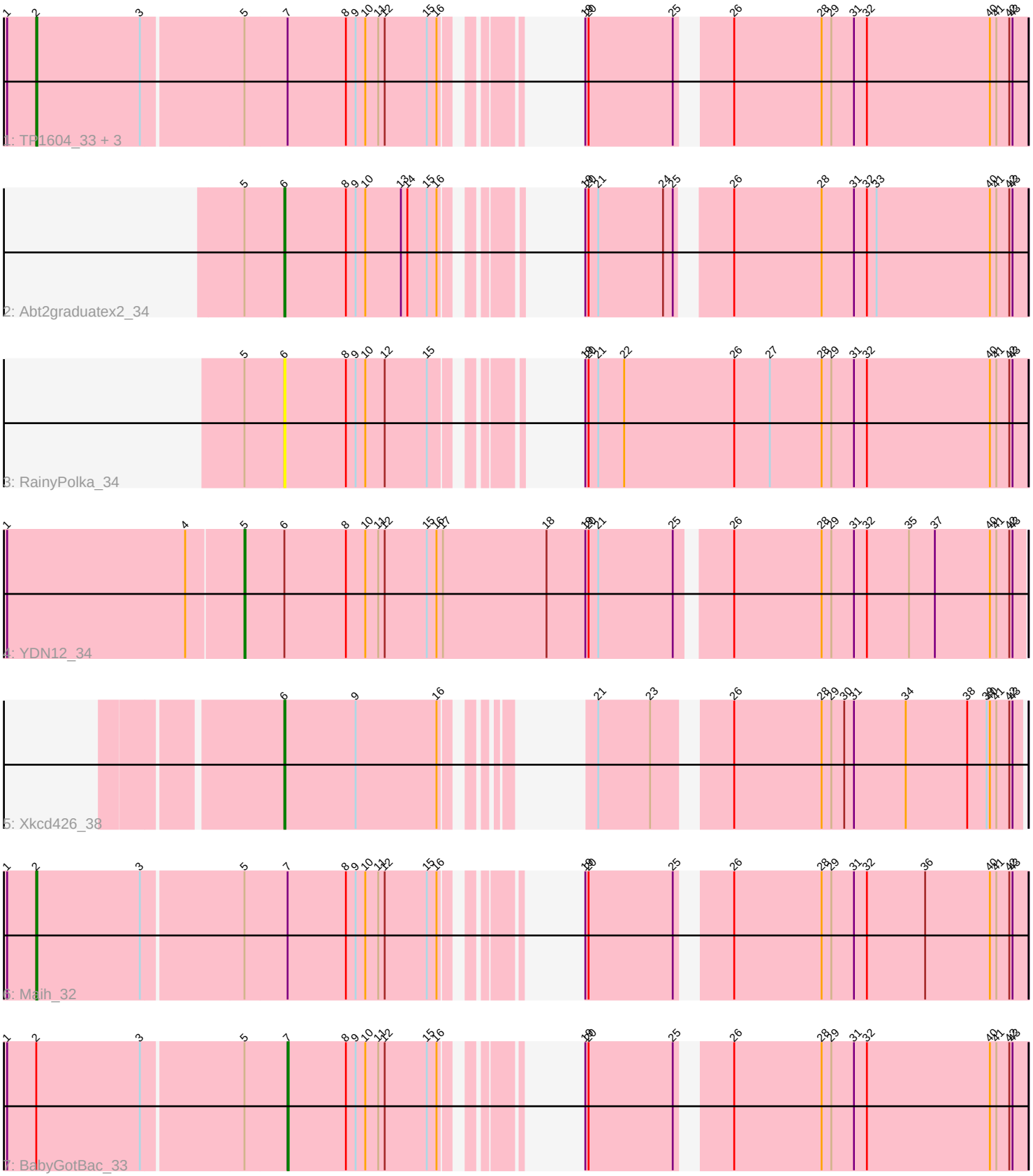
Pham 5957


1: TP1604_33 + 3
2: Abt2graduatex2_34
3: RainyPolka_34
4: YDN12_34
5: Xkcd426_38
6: Malh_32
7: BabyGotBac_33

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 5957 Report

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

Pham number 5957 has 10 members, 1 are drafts.

Phages represented in each track:
• Track 1 : TP1604_33, BayC_33, Salete_33, Asis_33
• Track 2 : Abt2graduatex2_34
• Track 3 : RainyPolka_34
• Track 4 : YDN12_34
• Track 5 : Xkcd426_38
• Track 6 : Maih_32
• Track 7 : BabyGotBac_33

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 5 of the 9 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Asis_33, BayC_33, Maih_32, Salete_33, TP1604_33,

Genes that have the "Most Annotated" start but do not call it:
• BabyGotBac_33,

Genes that do not have the "Most Annotated" start:
• Abt2graduatex2_34, RainyPolka_34, Xkcd426_38, YDN12_34,

Summary by start number:

Start 2:
• Found in 6 of 10 (60.0%) of genes in pham
• Manual Annotations of this start: 5 of 9
• Called 83.3% of time when present
• Phage (with cluster) where this start called: Asis_33 (BG), BayC_33 (BG), Maih_32 (BG), Salete_33 (BG), TP1604_33 (BG),

Start 5:
• Found in 9 of 10 (90.0%) of genes in pham
• Manual Annotations of this start: 1 of 9

• Called 11.1% of time when present
• Phage (with cluster) where this start called: YDN12_34 (BG),

Start 6:
• Found in 4 of 10 (40.0%) of genes in pham
• Manual Annotations of this start: 2 of 9
• Called 75.0% of time when present
• Phage (with cluster) where this start called: Abt2graduatex2_34 (BG), RainyPolka_34 (BG), Xkcd426_38 (BG),

Start 7:
• Found in 6 of 10 (60.0%) of genes in pham
• Manual Annotations of this start: 1 of 9
• Called 16.7% of time when present
• Phage (with cluster) where this start called: BabyGotBac_33 (BG),

Summary by clusters:

There is one cluster represented in this pham: BG

Info for manual annotations of cluster BG:
•Start number 2 was manually annotated 5 times for cluster BG.
•Start number 5 was manually annotated 1 time for cluster BG.
•Start number 6 was manually annotated 2 times for cluster BG.
•Start number 7 was manually annotated 1 time for cluster BG.

Gene Information:

Gene: Abt2graduatex2_34 Start: 29587, Stop: 29006, Start Num: 6
Candidate Starts for Abt2graduatex2_34:
(Start: 5 @29623 has 1 MA's), (Start: 6 @29587 has 2 MA's), (8, 29530), (9, 29521), (10, 29512), (13, 29479), (14, 29473), (15, 29455), (16, 29446), (19, 29395), (20, 29392), (21, 29383), (24, 29323), (25, 29314), (26, 29278), (28, 29197), (31, 29167), (32, 29155), (33, 29146), (40, 29041), (41, 29035), (42, 29023), (43, 29020),

Gene: Asis_33 Start: 29012, Stop: 28209, Start Num: 2
Candidate Starts for Asis_33:
(1, 29039), (Start: 2 @29012 has 5 MA's), (3, 28916), (Start: 5 @28826 has 1 MA's), (Start: 7 @28787 has 1 MA's), (8, 28733), (9, 28724), (10, 28715), (11, 28703), (12, 28697), (15, 28658), (16, 28649), (19, 28598), (20, 28595), (25, 28517), (26, 28481), (28, 28400), (29, 28391), (31, 28370), (32, 28358), (40, 28244), (41, 28238), (42, 28226), (43, 28223),

Gene: BabyGotBac_33 Start: 28787, Stop: 28209, Start Num: 7
Candidate Starts for BabyGotBac_33:
(1, 29039), (Start: 2 @29012 has 5 MA's), (3, 28916), (Start: 5 @28826 has 1 MA's), (Start: 7 @28787 has 1 MA's), (8, 28733), (9, 28724), (10, 28715), (11, 28703), (12, 28697), (15, 28658), (16, 28649), (19, 28598), (20, 28595), (25, 28517), (26, 28481), (28, 28400), (29, 28391), (31, 28370), (32, 28358), (40, 28244), (41, 28238), (42, 28226), (43, 28223),

Gene: BayC_33 Start: 29012, Stop: 28209, Start Num: 2
Candidate Starts for BayC_33:

(1, 29039), (Start: 2 @29012 has 5 MA's), (3, 28916), (Start: 5 @28826 has 1 MA's), (Start: 7 @28787 has 1 MA's), (8, 28733), (9, 28724), (10, 28715), (11, 28703), (12, 28697), (15, 28658), (16, 28649), (19, 28598), (20, 28595), (25, 28517), (26, 28481), (28, 28400), (29, 28391), (31, 28370), (32, 28358), (40, 28244), (41, 28238), (42, 28226), (43, 28223),

Gene: Maih_32 Start: 29011, Stop: 28208, Start Num: 2
Candidate Starts for Maih_32:
(1, 29038), (Start: 2 @29011 has 5 MA's), (3, 28915), (Start: 5 @28825 has 1 MA's), (Start: 7 @28786 has 1 MA's), (8, 28732), (9, 28723), (10, 28714), (11, 28702), (12, 28696), (15, 28657), (16, 28648), (19, 28597), (20, 28594), (25, 28516), (26, 28480), (28, 28399), (29, 28390), (31, 28369), (32, 28357), (36, 28303), (40, 28243), (41, 28237), (42, 28225), (43, 28222),

Gene: RainyPolka_34 Start: 29380, Stop: 28778, Start Num: 6
Candidate Starts for RainyPolka_34:
(Start: 5 @29416 has 1 MA's), (Start: 6 @29380 has 2 MA's), (8, 29323), (9, 29314), (10, 29305), (12, 29287), (15, 29248), (19, 29188), (20, 29185), (21, 29176), (22, 29152), (26, 29050), (27, 29017), (28, 28969), (29, 28960), (31, 28939), (32, 28927), (40, 28813), (41, 28807), (42, 28795), (43, 28792),

Gene: Salete_33 Start: 29012, Stop: 28209, Start Num: 2
Candidate Starts for Salete_33:
(1, 29039), (Start: 2 @29012 has 5 MA's), (3, 28916), (Start: 5 @28826 has 1 MA's), (Start: 7 @28787 has 1 MA's), (8, 28733), (9, 28724), (10, 28715), (11, 28703), (12, 28697), (15, 28658), (16, 28649), (19, 28598), (20, 28595), (25, 28517), (26, 28481), (28, 28400), (29, 28391), (31, 28370), (32, 28358), (40, 28244), (41, 28238), (42, 28226), (43, 28223),

Gene: TP1604_33 Start: 29012, Stop: 28209, Start Num: 2
Candidate Starts for TP1604_33:
(1, 29039), (Start: 2 @29012 has 5 MA's), (3, 28916), (Start: 5 @28826 has 1 MA's), (Start: 7 @28787 has 1 MA's), (8, 28733), (9, 28724), (10, 28715), (11, 28703), (12, 28697), (15, 28658), (16, 28649), (19, 28598), (20, 28595), (25, 28517), (26, 28481), (28, 28400), (29, 28391), (31, 28370), (32, 28358), (40, 28244), (41, 28238), (42, 28226), (43, 28223),

Gene: Xkcd426_38 Start: 36223, Stop: 35660, Start Num: 6
Candidate Starts for Xkcd426_38:
(Start: 6 @36223 has 2 MA's), (9, 36157), (16, 36082), (21, 36031), (23, 35983), (26, 35926), (28, 35845), (29, 35836), (30, 35824), (31, 35815), (34, 35767), (38, 35710), (39, 35692), (40, 35689), (41, 35683), (42, 35671), (43, 35668),

Gene: YDN12_34 Start: 28885, Stop: 28178, Start Num: 5
Candidate Starts for YDN12_34:
(1, 29101), (4, 28936), (Start: 5 @28885 has 1 MA's), (Start: 6 @28849 has 2 MA's), (8, 28792), (10, 28774), (11, 28762), (12, 28756), (15, 28717), (16, 28708), (17, 28702), (18, 28606), (19, 28570), (20, 28567), (21, 28558), (25, 28489), (26, 28447), (28, 28366), (29, 28357), (31, 28336), (32, 28324), (35, 28285), (37, 28261), (40, 28210), (41, 28204), (42, 28192), (43, 28189),