Pham 165427

1: BayC_45 + 5
2: Mischief19_54
3: Xkcd426_49
4: RainyPolka_46
5: Abt2graduatex2_46
6: YDN12_47

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 165427 Report

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

Pham number 165427 has 11 members, 1 are drafts.

Phages represented in each track:
• Track 1 : BayC_45, Maih_44, Asis_45, TP1604_45, Salete_45, BabyGotBac_46
• Track 2 : Mischief19_54
• Track 3 : Xkcd426_49
• Track 4 : RainyPolka_46
• Track 5 : Abt2graduatex2_46
• Track 6 : YDN12_47

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

The start number called the most often in the published annotations is 20, it was called in 7 of the 10 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Asis_45, BabyGotBac_46, BayC_45, Maih_44, RainyPolka_46, Salete_45, TP1604_45, Xkcd426_49,

Genes that have the "Most Annotated" start but do not call it:
• Abt2graduatex2_46, Mischief19_54, YDN12_47,

Genes that do not have the "Most Annotated" start:
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Summary by start number:

Start 19:
• Found in 2 of 11 (18.2%) of genes in pham
• Manual Annotations of this start: 1 of 10
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Abt2graduatex2_46 (BG),

Start 20:
• Found in 11 of 11 (100.0%) of genes in pham
• Manual Annotations of this start: 7 of 10
• Called 72.7% of time when present

• Phage (with cluster) where this start called: Asis_45 (BG), BabyGotBac_46 (BG), BayC_45 (BG), Maih_44 (BG), RainyPolka_46 (BG), Salete_45 (BG), TP1604_45 (BG), Xkcd426_49 (BG),

Start 21:
• Found in 1 of 11 (9.1%) of genes in pham
• Manual Annotations of this start: 1 of 10
• Called 100.0% of time when present
• Phage (with cluster) where this start called: YDN12_47 (BG),

Start 22:
• Found in 1 of 11 (9.1%) of genes in pham
• Manual Annotations of this start: 1 of 10
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Mischief19_54 (BG),

Summary by clusters:

There is one cluster represented in this pham: BG

Info for manual annotations of cluster BG:
•Start number 19 was manually annotated 1 time for cluster BG.
•Start number 20 was manually annotated 7 times for cluster BG.
•Start number 21 was manually annotated 1 time for cluster BG.
•Start number 22 was manually annotated 1 time for cluster BG.

Gene Information:

Gene: Abt2graduatex2_46 Start: 36467, Stop: 36673, Start Num: 19
Candidate Starts for Abt2graduatex2_46:
(2, 35390), (3, 35396), (4, 35420), (5, 35450), (6, 35564), (7, 35585), (8, 35633), (9, 35876), (10, 35936), (11, 36125), (14, 36377), (17, 36446), (18, 36452), (Start: 19 @36467 has 1 MA's), (Start: 20 @36473 has 7 MA's), (24, 36539), (26, 36548), (29, 36611), (30, 36626), (33, 36662),

Gene: Asis_45 Start: 36225, Stop: 36425, Start Num: 20
Candidate Starts for Asis_45:
(12, 36090), (13, 36111), (17, 36198), (18, 36204), (Start: 20 @36225 has 7 MA's), (23, 36285), (24, 36291), (26, 36300), (29, 36363), (30, 36378),

Gene: BabyGotBac_46 Start: 36225, Stop: 36425, Start Num: 20
Candidate Starts for BabyGotBac_46:
(12, 36090), (13, 36111), (17, 36198), (18, 36204), (Start: 20 @36225 has 7 MA's), (23, 36285), (24, 36291), (26, 36300), (29, 36363), (30, 36378),

Gene: BayC_45 Start: 36222, Stop: 36422, Start Num: 20
Candidate Starts for BayC_45:
(12, 36087), (13, 36108), (17, 36195), (18, 36201), (Start: 20 @36222 has 7 MA's), (23, 36282), (24, 36288), (26, 36297), (29, 36360), (30, 36375),

Gene: Maih_44 Start: 36224, Stop: 36424, Start Num: 20
Candidate Starts for Maih_44:

(12, 36089), (13, 36110), (17, 36197), (18, 36203), (Start: 20 @36224 has 7 MA's), (23, 36284), (24, 36290), (26, 36299), (29, 36362), (30, 36377),

Gene: Mischief19_54 Start: 46638, Stop: 46811, Start Num: 22
Candidate Starts for Mischief19_54:
(16, 46584), (17, 46596), (Start: 19 @46614 has 1 MA's), (Start: 20 @46620 has 7 MA's), (Start: 22 @46638 has 1 MA's), (27, 46695), (28, 46725), (30, 46764),

Gene: RainyPolka_46 Start: 36213, Stop: 36413, Start Num: 20
Candidate Starts for RainyPolka_46:
(2, 35130), (5, 35190), (6, 35304), (7, 35325), (8, 35373), (9, 35616), (10, 35676), (11, 35865), (14, 36117), (17, 36186), (18, 36192), (Start: 20 @36213 has 7 MA's), (23, 36273), (24, 36279), (26, 36288), (29, 36351), (30, 36366), (33, 36402),

Gene: Salete_45 Start: 36222, Stop: 36422, Start Num: 20
Candidate Starts for Salete_45:
(12, 36087), (13, 36108), (17, 36195), (18, 36201), (Start: 20 @36222 has 7 MA's), (23, 36282), (24, 36288), (26, 36297), (29, 36360), (30, 36375),

Gene: TP1604_45 Start: 36228, Stop: 36428, Start Num: 20
Candidate Starts for TP1604_45:
(12, 36093), (13, 36114), (17, 36201), (18, 36207), (Start: 20 @36228 has 7 MA's), (23, 36288), (24, 36294), (26, 36303), (29, 36366), (30, 36381),

Gene: Xkcd426_49 Start: 42349, Stop: 42552, Start Num: 20
Candidate Starts for Xkcd426_49:
(15, 42310), (17, 42322), (Start: 20 @42349 has 7 MA's), (25, 42424), (26, 42427), (29, 42490), (31, 42508), (32, 42523),

Gene: YDN12_47 Start: 35929, Stop: 36120, Start Num: 21
Candidate Starts for YDN12_47:
(1, 34729), (2, 34837), (5, 34897), (6, 35011), (7, 35032), (8, 35080), (9, 35323), (10, 35383), (11, 35572), (14, 35824), (17, 35893), (18, 35899), (Start: 20 @35920 has 7 MA's), (Start: 21 @35929 has 1 MA's), (23, 35980), (24, 35986), (26, 35995), (29, 36058), (31, 36076),