Pham 5364

7 11 14 16 18 22 24 25 27 30 33 34 36 37 38
1: Weirdo19_42
3 4 7 10 11 20 28 29 32
2: Sonali_81
8 11 13 14 31
3: Aoka_40
7 9 11 12 15 17 21 27 33 35
4: Phegasus_54 + 3
7 9 11 12 15 17 21 27 33 35
5: StevieRay_54
1 2 5 7 9 11 12 15 17 21 27 33 35
6: GreaseLightnin_55 + 2
6 11 17 19 23 26 29 32
7: Pine5_03

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 5364 Report

This analysis was run 04/22/24 on database version 561.

Pham number 5364 has 12 members, 2 are drafts.

Phages represented in each track:
• Track 1 : Weirdo19_42
• Track 2 : Sonali_81
• Track 3 : Aoka_40
• Track 4 : Phegasus_54, Mangethe_54, Majeke_54, Zilizebeth_54
• Track 5 : StevieRay_54
• Track 6 : GreaseLightnin_55, Bunnies_55, Ksquared_54
• Track 7 : Pine5_03

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

The start number called the most often in the published annotations is 9, it was called in 7 of the 10 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Bunnies_55, GreaseLightnin_55, Ksquared_54, Majeke_54, Mangethe_54, Phegasus_54, Zilizebeth_54,

Genes that have the "Most Annotated" start but do not call it:
• StevieRay_54,

Genes that do not have the "Most Annotated" start:
• Aoka_40, Pine5_03, Sonali_81, Weirdo19_42,

Summary by start number:

Start 6:
• Found in 1 of 12 (8.3%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Pine5_03 (singleton),

Start 7:
• Found in 11 of 12 (91.7%) of genes in pham
• Manual Annotations of this start: 3 of 10

• Called 36.4% of time when present
• Phage (with cluster) where this start called: Aoka_40 (FO), Sonali_81 (FG), StevieRay_54 (P1), Weirdo19_42 (AH),

Start 9:
• Found in 8 of 12 (66.7%) of genes in pham
• Manual Annotations of this start: 7 of 10
• Called 87.5% of time when present
• Phage (with cluster) where this start called: Bunnies_55 (P1), GreaseLightnin_55 (P1), Ksquared_54 (P1), Majeke_54 (P1), Mangethe_54 (P1), Phegasus_54 (P1), Zilizebeth_54 (P1),

Summary by clusters:

There are 5 clusters represented in this pham: FO, AH, singleton, P1, FG,

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

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

Info for manual annotations of cluster P1:
•Start number 7 was manually annotated 1 time for cluster P1.
•Start number 9 was manually annotated 7 times for cluster P1.

Gene Information:

Gene: Aoka_40 Start: 29892, Stop: 30518, Start Num: 7
Candidate Starts for Aoka_40:
(Start: 7 @29892 has 3 MA's), (8, 29895), (11, 29940), (13, 29955), (14, 30003), (31, 30390),

Gene: Bunnies_55 Start: 36693, Stop: 37304, Start Num: 9
Candidate Starts for Bunnies_55:
(1, 36171), (2, 36318), (5, 36606), (Start: 7 @36657 has 3 MA's), (Start: 9 @36693 has 7 MA's), (11, 36705), (12, 36717), (15, 36843), (17, 36897), (21, 37011), (27, 37119), (33, 37236), (35, 37254),

Gene: GreaseLightnin_55 Start: 36922, Stop: 37533, Start Num: 9
Candidate Starts for GreaseLightnin_55:
(1, 36400), (2, 36547), (5, 36835), (Start: 7 @36886 has 3 MA's), (Start: 9 @36922 has 7 MA's), (11, 36934), (12, 36946), (15, 37072), (17, 37126), (21, 37240), (27, 37348), (33, 37465), (35, 37483),

Gene: Ksquared_54 Start: 36693, Stop: 37304, Start Num: 9
Candidate Starts for Ksquared_54:
(1, 36171), (2, 36318), (5, 36606), (Start: 7 @36657 has 3 MA's), (Start: 9 @36693 has 7 MA's), (11, 36705), (12, 36717), (15, 36843), (17, 36897), (21, 37011), (27, 37119), (33, 37236), (35, 37254),

Gene: Majeke_54 Start: 36482, Stop: 37093, Start Num: 9
Candidate Starts for Majeke_54:

(Start: 7 @36446 has 3 MA's), (Start: 9 @36482 has 7 MA's), (11, 36494), (12, 36506), (15, 36632), (17, 36686), (21, 36800), (27, 36908), (33, 37025), (35, 37043),

Gene: Mangethe_54 Start: 36482, Stop: 37093, Start Num: 9
Candidate Starts for Mangethe_54:
(Start: 7 @36446 has 3 MA's), (Start: 9 @36482 has 7 MA's), (11, 36494), (12, 36506), (15, 36632), (17, 36686), (21, 36800), (27, 36908), (33, 37025), (35, 37043),

Gene: Phegasus_54 Start: 36449, Stop: 37060, Start Num: 9
Candidate Starts for Phegasus_54:
(Start: 7 @36413 has 3 MA's), (Start: 9 @36449 has 7 MA's), (11, 36461), (12, 36473), (15, 36599), (17, 36653), (21, 36767), (27, 36875), (33, 36992), (35, 37010),

Gene: Pine5_03 Start: 3345, Stop: 2725, Start Num: 6
Candidate Starts for Pine5_03:
(6, 3345), (11, 3297), (17, 3117), (19, 3066), (23, 2949), (26, 2925), (29, 2880), (32, 2829),

Gene: Sonali_81 Start: 51053, Stop: 51670, Start Num: 7
Candidate Starts for Sonali_81:
(3, 50720), (4, 50774), (Start: 7 @51053 has 3 MA's), (10, 51092), (11, 51101), (20, 51350), (28, 51515), (29, 51524), (32, 51575),

Gene: StevieRay_54 Start: 36609, Stop: 37256, Start Num: 7
Candidate Starts for StevieRay_54:
(Start: 7 @36609 has 3 MA's), (Start: 9 @36645 has 7 MA's), (11, 36657), (12, 36669), (15, 36795), (17, 36849), (21, 36963), (27, 37071), (33, 37188), (35, 37206),

Gene: Weirdo19_42 Start: 32421, Stop: 31717, Start Num: 7
Candidate Starts for Weirdo19_42:
(Start: 7 @32421 has 3 MA's), (11, 32379), (14, 32316), (16, 32208), (18, 32172), (22, 32058), (24, 32019), (25, 32007), (27, 31974), (30, 31938), (33, 31857), (34, 31848), (36, 31812), (37, 31734), (38, 31728),

Gene: Zilizebeth_54 Start: 36473, Stop: 37084, Start Num: 9
Candidate Starts for Zilizebeth_54:
(Start: 7 @36437 has 3 MA's), (Start: 9 @36473 has 7 MA's), (11, 36485), (12, 36497), (15, 36623), (17, 36677), (21, 36791), (27, 36899), (33, 37016), (35, 37034),